

Server cabinets ITK[®] by ZPAS for data centers



- Robust construction
- Multifunctionality
- Safety
- Efficiency

ITK provides a new series of telecommunications cabinets ITK[®] by ZPAS, developed in collaboration with one of European leaders in passive telecommunications equipment production industry – ZPAS company.

A new series of cabinets for data centers (DC) ITK[®] by ZPAS is designed based on innovative developments and adapted for the Russian market.

Telecommunication cabinets ITK[®] by ZPAS are manufactured on IEK GROUP plant in Yasnogorsk (the Tula Region).

System Warranty

The ITK structured cable system offers an extended 25 years warranty supporting existing and prospective applications and services.

System warranty provides complete compatibility of all components, maximum functionality of cable system, as well as excludes design and installation errors.

System warranty for SCS is required to implement any project on construction of a structured cable system, ensuring efficient and resilient operation of the enterprise network infrastructure.



ieK PLUS + Take your "BENEFIT"!

- Technical Support
- Training
- Bonuses

www.iekplus.ru Tel.: +7 (495) 542-22-22

Specialized program "IEK+" is an open informational and technological resource for engineers of electrical mains and structured cable systems. "IEK+" combines informational and educational functions, software tools for work, options for technical support and online communication.

Sign in at a website <http://www.iekplus.ru>

For inquiries, call: +7 (495) 542-22-29

ITK® is a well-known Russian brand of telecommunications equipment, providing reliable products for IT market. ITK trademark belongs to one of the largest manufacturers on electrical market of Russia — IEK GROUP. Nowadays ITK® equipment is used in a lot of upmarket projects and continues to participate in programs for IT systems reconstruction and upgrade of the largest Russian and foreign organizations.

ITK MISSION

High quality products supporting efficient telecommunications solutions and provision of cutting edge equipment under Russian TM.

DISTRIBUTION AND PROMOTION

ITK® telecommunications equipment is promoted on the market via a broad distribution partners network. ITK® products is supplied to leading players of IT market — system integrators and large corporate clients.



LOGISTICS

There are 4 logistics centers in Russia, two of which are assigned with class “A” according to international classification of warehouse premises. The centers are fitted with state of the art equipment, their total area is about 60 thousand sq. m. There are also distribution centers abroad: in Almaty (Kazakhstan), Kyiv (Ukraine), Kishinev (Moldova), Riga (Latvia), Ulaanbaatar (Mongolia) and Ningbo (China). ITK® products undergo mandatory additional incoming quality control in all logistics centers.



PRODUCTION

Strategic production facility is located in Russia, Tula Region. Cutting edge equipment of the production site is used to manufacture telecommunications cabinets and climate cases, metal trays and accessories for them, as well as trunk and office plastic cable ducts, meeting the highest European and Russian standards. A part of ITK® products is manufactured under the contract on partner plants in European and Asian countries.



QUALITY AND WARRANTY

All ITK® products meet requirements of international standard ISO 11801:2017, Russian GOSTs for structured cable and low-current systems, as well as American standard TIA568-D. Three-stage product quality control provides extended component warranty. A certification program for ITK® structured cable systems (system warranty) includes guaranteed support of existing and prospective applications for a period of 25 years.



DESIGN AND ENGINEERING SUPPORT

High qualification and expertise resulting from implementation of structured cable systems projects of any complexity allow to offer our partners and customers designing and engineering support, perform tasks on equipment selection and assessment of selected project solutions and execute audits of finished works. Technical workshops, online courses and webinars, as well as a network of ITK® training centers help improve qualification of professionals, working on SCS design.

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Telecommunications cabinets and racks

- Server cabinets with static load 1500 kg
- Network on-floor and wall-mounted cabinets
- Outdoors climate cases IP55 NF 1
- Broad range of accessories and gear



ITK telecommunications cabinets and racks offer a reliable solution for compact arrangement of 19-inch active switching and network equipment, including cooling, electric power distribution inside, provision of integrity and security, protection against environmental impact, meeting Russia and international standards, as well as TR CU requirements.

Cabinets, racks and accessories for them are manufactured on proprietary production plant of IEK GROUP in Yasnogorsk, Tula Region, using state of the art European metal working equipment with application of high-grade metal and raw materials. Each year our enterprise produces **up to 1.2M metal cabinets and outer jackets.**

Network on-floor cabinets

iTK on-floor 19" cabinets are used to allocate various active and passive network equipment, servers, DSS, rack UPS and other specialized 19" standard equipment. They can be allocated both in specialized server and cross-connect rooms and in office premises, combining high performance, appealing design, high lifting capacity and functionality. A broad range of form factors and modifications of network cabinets, as well as a large quantity of accessories and gear allow a customer to find a required specification depending on a task. Moreover, correspondence to international and Russian standards ensures compatibility with SCS components and equipment of global manufacturers.

Key Concepts

19 inches (19")

width between two vertical mounting guides of the cabinet (between two square holes). 19" = 482.6 mm

Unit (U)

usable height unit of a telecommunications cabinet. 1U = 1.75" = 44.45 mm.

Usable depth of a cabinet

Maximum distance between a front and a rear assembly plane, constituted by two 19" assembly profiles, moved to the farthest position in the cabinet. This parameter defines maximum possible depth and dimensions of active equipment and servers installed inside of a cabinet.

Perforation percentage of a door

Percentage of an open door area, ensuring natural ventilation and passage of air streams to a cabinet through a door. The value is calculated based only on the part of a door area, which has holes in a form of regular hexagon or a circle.

Types of doors



Glass



Metal



Perforated

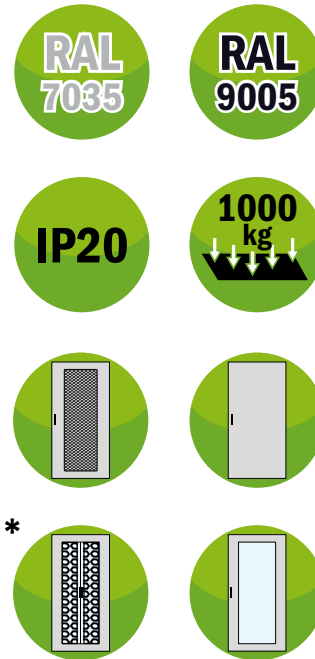


Two-leaf perforated

LINEA N series cabinets

Due to their enhanced structure, that is able to withstand a distributed static load of 1000 kg, LINEA N series cabinets are designed for allocation of a lot of heavy telecommunications equipment of different depth, uninterrupted power supply units and batteries. Cabinets of this series provide the equipment with efficient heat exchange and protection against unauthorized access, offering a broad range of cable arrangement options.

LINEA N cabinets can be installed in the following premises: data centers, all kinds of server rooms, cross-connect buildings, office spaces and premises of large business centers.




* for a cabinet 800x800 mm"


Specifications


	600×600	600×800	600×1000	800×800	800×1000
Construction type	prefabricated				
Form factor	19 inches (GOST 28601.1-90 and GOST 28601.2-90)				
Support frame material	sheet steel 1.5 mm				
Static load, kg	1000				
Load when installed on rollers, kg	300				
Dimensions					
Height (U)	18U, 24U, 28U, 33U, 38U, 42U, 47U				
Width, mm	600	600	600	800	800
Depth, mm	600	800	1000	800	1000
Usable depth, mm	515	715	915	715	915
Configuration and properties of doors					
Front door	glass metal perforated 80%	glass metal perforated 80%	glass metal perforated 80%	glass perforated 80% two-leaf perforated 70%	glass perforated 80%
Rear door	blind removable wall metal	blind removable wall metal	blind removable wall metal perforated 80%	metal perforated 80%	metal perforated 80%
Material	sheet steel 1.5 mm				
Type of glass	tinted shock-proof 5.0 mm				
Type of lock	crossbar knob-lock with three-point latching on pull rods rear metal door – two single-point crossbar locks				
Opening angle, degree	120°				
Side walls					
Construction	removable single		removable dual	removable single	removable dual


	600×600	600×800	600×1000	800×800	800×1000
Latching	lock and plastic patches				
Material	sheet steel 1.0 mm				
19" mounting profiles					
Profile form	G-shaped		G-shaped L-shaped	G-shaped	G-shaped
Material	galvanized sheet steel 1.5 mm				
Height labeling type	numerical labeling and notches on metal				
Adjustment step	20 mm				
Roof					
Construction	dual				
Material	sheet steel 1.5 mm (base) and 1.0 mm (roof)				
Maximum quantity of fan panels on a roof	2	3	4	3	4
Quantity of cable entries	1			3	3
Lower base					
Material	sheet steel 1.5 mm				
Quantity of cable entries	2		3	2	3
Joint installation on legs and rollers	yes				
Other					
Standard compliance	IEC62208, IEC60950, TR CU 020/2011, GOST 28601.1-90 and 28601.2-90, GOST 14254				
Operation conditions according to GOST 15150	U3 (in closed premises at a temperature from -10 to +45°C and a relative humidity of up to 80% at 25°C)				
Ingress protection level according to GOST 14254	IP20 IP00 – cabinets with perforated doors				
Physical impact protection level according to GOST IEC 62262	IK10 IK08 – glass door				
Color	RAL7035 (grey) / RAL9005 (black)				
Cover type	PPP shagreen matte / PPP shagreen moire				
Warranty	3 years				
Service life	25 years				
Packaging	4 corrugated boxes in a wooden grillage				


Construction features


- 


Static load 1000 kg
- 


The door can be re-hung easily and quickly
- 


Broad range of versions and dimensions
- 


Ventilated door has 80% of perforation
- 


G-shaped form of 19" mounting profiles
- 


The cabinet can be simultaneously mounted on the rollers and on adjustable legs
- 


19" mounting profiles are adjusted per depth and have a numerical height labeling in units
- 


Delivered in a reliable and durable wooden grillage
- 

Internal space of the cabinet can be accessed from four sides
- 

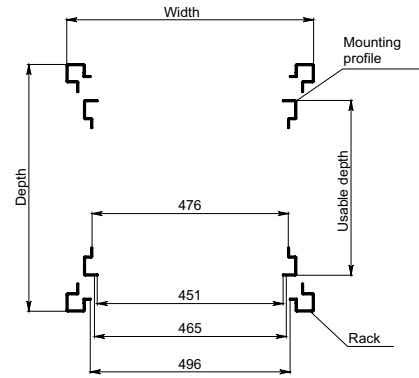
Climatic version of U3
- 

Side walls are removable, fitted with a lock and latches
- 

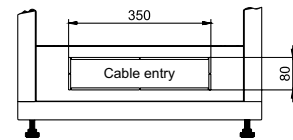
3 years warranty
- 

Door lock with three-point latching and folding handle
- 

Service life – 25 years



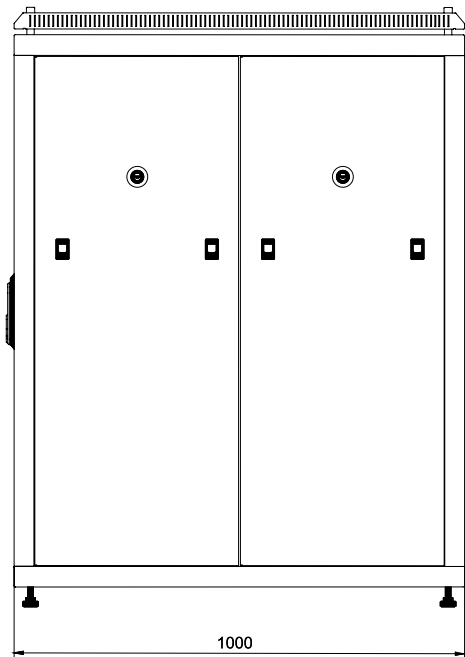
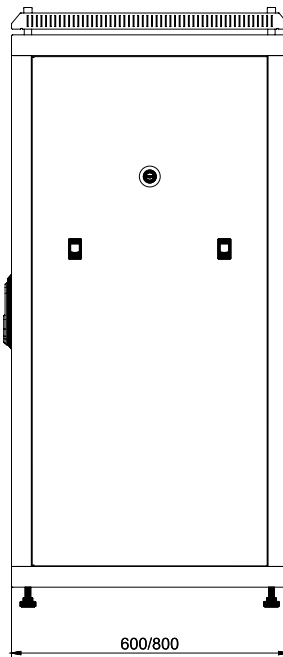
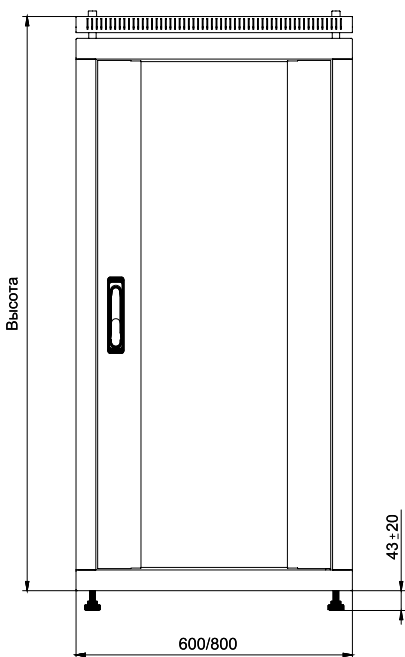
Cabinet section



Front view

Side view
1 Panel

Side view
2 Panels



LINEA N cabinets 600×600 mm and 600×800 mm

Dual roof ensures more efficient cooling of equipment and prevents dust from getting into the cabinet from the top

The cabinet can be accessed from four sides, including from the rear side

Locks and plastic latches on removable side walls

Locks on side walls are sunk, allowing to put the cabinets in a row with no clearances

Glazed door with tinted shock-proof glass with protective film

Cabinet frame and 19" mounting profiles have a high fixity degree, ensuring 1000 kg static load

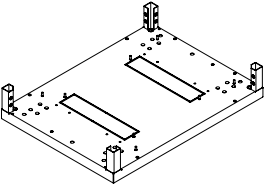
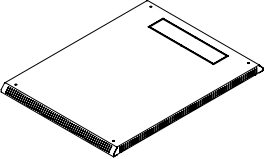
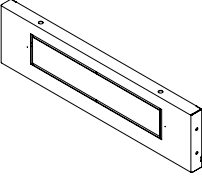
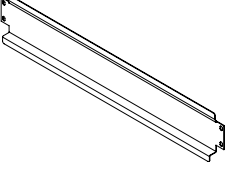
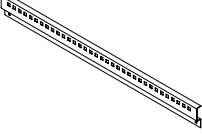
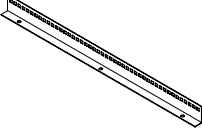
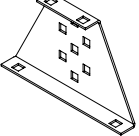
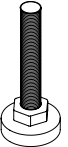
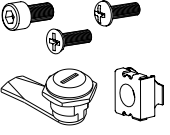

Delivery in a reliable durable wooden package

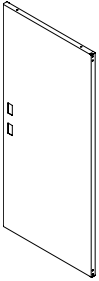


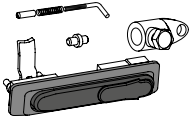
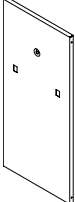
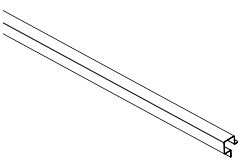
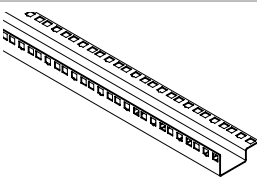
Can be simultaneously installed on legs and rotating rollers

LINEA N cabinets 600×600 mm and 600×800 mm



Standard package of network on-floor cabinets LINEA N

	Name	600×600, 600×800, 600×1000		800×800	Box number
		1 door, pcs.	2 doors, pcs.	2 doors, pcs.	
	Base	2	2	2	1
	Ventilation roof	1	1	1	
	Cable entry	2	—	—	
	Hitch bar	2	2	2	
	Side profile	4	4	2*	
		6*	6*		
	Corner piece	—	—	4	
	Profile holder	—	—	4*	
	Adjustable legs	4	4	4*	
	Fitting and accessories	1 set	1 set	1 set	
	Data sheet	1 copy	1 copy	1 copy	
	Assembly instructions	1 copy	1 copy	1 copy	

	Name	600×600, 600×800, 600×1000		800×800	Box number
		1 door, pcs.	2 doors, pcs.	2 doors, pcs.	
	Door	1	2	2	2
	Rear panel	1	–	–	
	Pulling rod	2	4	4	
	Door package	1	2	2	
	Side panel	2	2	2	3
		4**	4**		
	Rack	4	4	4	4
	Mounting profile	4	4	4	

* – for cabinets higher than 27U;

** – for cabinets 1000 mm deep.



Cabinets can be selected
in a configurator at a website
www.iek.group

Product range

Name	Height (U)	Height, mm**	Type of front door	Type of rear door	Article, grey color RAL 7035	Article, black color RAL 9005
600×600 mm (W×D)						
Glazed door with glass						
Network cabinet 19", 18U, 600x600 mm	18U	925	Glazed door with glass	Blind panel	LN35-18U66-G	LN05-18U66-G
Network cabinet 19", 24U, 600x600 mm	24U	1195	Glazed door with glass	Blind panel	LN35-24U66-G	LN05-24U66-G
Network cabinet 19", 28U, 600x600 mm	28U	1370	Glazed door with glass	Blind panel	LN35-28U66-G	LN05-28U66-G
Network cabinet 19", 33U, 600x600 mm	33U	1595	Glazed door with glass	Blind panel	LN35-33U66-G	LN05-33U66-G
Network cabinet 19", 38U, 600x600 mm	38U	1815	Glazed door with glass	Blind panel	LN35-38U66-G	LN05-38U66-G
Network cabinet 19", 42U, 600x600 mm	42U	1995	Glazed door with glass	Blind panel	LN35-42U66-G	LN05-42U66-G
Network cabinet 19", 47U, 600x600 mm	47U	2215	Glazed door with glass	Blind panel	LN35-47U66-G	LN05-47U66-G
Metal door						
Network cabinet 19", 18U, 600x600 mm	18U	925	Metal	Blind panel	LN35-18U66-M*	LN05-18U66-M*
Network cabinet 19", 24U, 600x600 mm	24U	1195	Metal	Blind panel	LN35-24U66-M	LN05-24U66-M*
Network cabinet 19", 28U, 600x600 mm	28U	1370	Metal	Blind panel	LN35-28U66-M*	LN05-28U66-M*
Network cabinet 19", 33U, 600x600 mm	33U	1595	Metal	Blind panel	LN35-33U66-M	LN05-33U66-M*
Network cabinet 19", 38U, 600x600 mm	38U	1815	Metal	Blind panel	LN35-38U66-M*	LN05-38U66-M*
Network cabinet 19", 42U, 600x600 mm	42U	1995	Metal	Blind panel	LN35-42U66-M	LN05-42U66-M*
Network cabinet 19", 47U, 600x600 mm	47U	2215	Metal	Blind panel	LN35-47U66-M*	LN05-47U66-M*
Perforated door						
Network cabinet 19", 18U, 600x600 mm	18U	925	Perforated	Blind panel	LN35-18U66-P*	LN05-18U66-P*
Network cabinet 19", 24U, 600x600 mm	24U	1195	Perforated	Blind panel	LN35-24U66-P	LN05-24U66-P*
Network cabinet 19", 28U, 600x600 mm	28U	1370	Perforated	Blind panel	LN35-28U66-P*	LN05-28U66-P*
Network cabinet 19", 33U, 600x600 mm	33U	1595	Perforated	Blind panel	LN35-33U66-P	LN05-33U66-P*
Network cabinet 19", 38U, 600x600 mm	38U	1815	Perforated	Blind panel	LN35-38U66-P*	LN05-38U66-P*
Network cabinet 19", 42U, 600x600 mm	42U	1995	Perforated	Blind panel	LN35-42U66-P	LN05-42U66-P*
Network cabinet 19", 47U, 600x600 mm	47U	2215	Perforated	Blind panel	LN35-47U66-P*	LN05-47U66-P*
Front glass door, rear metal door						
Network cabinet 19", 18U, 600x600 mm	18U	925	Glazed door with glass	Metal	LN35-18U66-GM*	LN05-18U66-GM*
Network cabinet 19", 24U, 600x600 mm	24U	1195	Glazed door with glass	Metal	LN35-24U66-GM*	LN05-24U66-GM*
Network cabinet 19", 28U, 600x600 mm	28U	1370	Glazed door with glass	Metal	LN35-28U66-GM*	LN05-28U66-GM*
Network cabinet 19", 33U, 600x600 mm	33U	1595	Glazed door with glass	Metal	LN35-33U66-GM	LN05-33U66-GM*
Network cabinet 19", 38U, 600x600 mm	38U	1815	Glazed door with glass	Metal	LN35-38U66-GM*	LN05-38U66-GM*
Network cabinet 19", 42U, 600x600 mm	42U	1995	Glazed door with glass	Metal	LN35-42U66-GM	LN05-42U66-GM*
Network cabinet 19", 47U, 600x600 mm	47U	2215	Glazed door with glass	Metal	LN35-47U66-GM	LN05-47U66-GM*
600×800 mm (W×D)						
Glazed door with glass						
Network cabinet 19", 18U, 600x800 mm	18U	925	Glazed door with glass	Blind panel	LN35-18U68-G	LN05-18U68-G
Network cabinet 19", 24U, 600x800 mm	24U	1195	Glazed door with glass	Blind panel	LN35-24U68-G	LN05-24U68-G
Network cabinet 19", 28U, 600x800 mm	28U	1370	Glazed door with glass	Blind panel	LN35-28U68-G	LN05-28U68-G
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Network cabinet 19", 47U, 600x800 mm	47U	2215	Glazed door with glass	Blind panel	LN35-47U68-G	LN05-47U68-G
Metal door						
Network cabinet 19", 18U, 600x800 mm	18U	925	Metal	Blind panel	LN35-18U68-M*	LN05-18U68-M*
Network cabinet 19", 24U, 600x800 mm	24U	1195	Metal	Blind panel	LN35-24U68-M	LN05-24U68-M*

* – custom items ** – height without legs

Name	Height (U)	Height, mm**	Type of front door	Type of rear door	Article, grey color RAL 7035	Article, black color RAL 9005
Network cabinet 19", 28U, 600x800 mm	28U	1370	Metal	Blind panel	LN35-28U68-M*	LN05-28U68-M*
Network cabinet 19", 33U, 600x800 mm	33U	1595	Metal	Blind panel	LN35-33U68-M	LN05-33U68-M*
Network cabinet 19", 38U, 600x800 mm	38U	1815	Metal	Blind panel	LN35-38U68-M*	LN05-38U68-M*
Network cabinet 19", 42U, 600x800 mm	42U	1995	Metal	Blind panel	LN35-42U68-M	LN05-42U68-M
Network cabinet 19", 47U, 600x800 mm	47U	2215	Metal	Blind panel	LN35-47U68-M*	LN05-47U68-M*
Perforated door						
Network cabinet 19", 18U, 600x800 mm	18U	925	Perforated	Blind panel	LN35-18U68-P*	LN05-18U68-P*
Network cabinet 19", 24U, 600x800 mm	24U	1195	Perforated	Blind panel	LN35-24U68-P	LN05-24U68-P*
Network cabinet 19", 28U, 600x800 mm	28U	1370	Perforated	Blind panel	LN35-28U68-P*	LN05-28U68-P*
Network cabinet 19", 33U, 600x800 mm	33U	1595	Perforated	Blind panel	LN35-33U68-P	LN05-33U68-P*
Network cabinet 19", 38U, 600x800 mm	38U	1815	Perforated	Blind panel	LN35-38U68-P*	LN05-38U68-P*
Network cabinet 19", 42U, 600x800 mm	42U	1995	Perforated	Blind panel	LN35-42U68-P	LN05-42U68-P
Network cabinet 19", 47U, 600x800 mm	47U	2215	Perforated	Blind panel	LN35-47U68-P	LN05-47U68-P
Front glass door, rear metal door						
Network cabinet 19", 18U, 600x800 mm	18U	925	Glazed door with glass	Metal	LN35-18U68-GM*	LN05-18U68-GM*
Network cabinet 19", 24U, 600x800 mm	24U	1195	Glazed door with glass	Metal	LN35-24U68-GM	LN05-24U68-GM*
Network cabinet 19", 28U, 600x800 mm	28U	1370	Glazed door with glass	Metal	LN35-28U68-GM*	LN05-28U68-GM*
Network cabinet 19", 33U, 600x800 mm	33U	1595	Glazed door with glass	Metal	LN35-33U68-GM	LN05-33U68-GM*
Network cabinet 19", 38U, 600x800 mm	38U	1815	Glazed door with glass	Metal	LN35-38U68-GM*	LN05-38U68-GM*
Network cabinet 19", 42U, 600x800 mm	42U	1995	Glazed door with glass	Metal	LN35-42U68-GM	LN05-42U68-GM
Network cabinet 19", 47U, 600x800 mm	47U	2215	Glazed door with glass	Metal	LN35-47U68-GM	LN05-47U68-GM
800x800 mm (WxD)						
Front glass door, rear metal door						
Network cabinet 19", 18U, 800x800 mm	18U	925	Glazed door with glass	Metal	LN35-18U88-GM*	LN05-18U88-GM*
Network cabinet 19", 24U, 800x800 mm	24U	1195	Glazed door with glass	Metal	LN35-24U88-GM	LN05-24U88-GM*
Network cabinet 19", 28U, 800x800 mm	28U	1370	Glazed door with glass	Metal	LN35-28U88-GM*	LN05-28U88-GM*
Network cabinet 19", 33U, 800x800 mm	33U	1595	Glazed door with glass	Metal	LN35-33U88-GM	LN05-33U88-GM
Network cabinet 19", 38U, 800x800 mm	38U	1815	Glazed door with glass	Metal	LN35-38U88-GM*	LN05-38U88-GM*
Network cabinet 19", 42U, 800x800 mm	42U	1995	Glazed door with glass	Metal	LN35-42U88-GM	LN05-42U88-GM
Network cabinet 19", 47U, 800x800 mm	47U	2215	Glazed door with glass	Metal	LN35-47U88-GM	LN05-47U88-GM*
Front perforated door, rear metal door						
Network cabinet 19", 18U, 800x800 mm	18U	925	Perforated	Metal	LN35-18U88-PM*	LN05-18U88-PM*
Network cabinet 19", 24U, 800x800 mm	24U	1195	Perforated	Metal	LN35-24U88-PM	LN05-24U88-PM*
Network cabinet 19", 28U, 800x800 mm	28U	1370	Perforated	Metal	LN35-28U88-PM*	LN05-28U88-PM*
Network cabinet 19", 33U, 800x800 mm	33U	1595	Perforated	Metal	LN35-33U88-PM	LN05-33U88-PM
Network cabinet 19", 38U, 800x800 mm	38U	1815	Perforated	Metal	LN35-38U88-PM*	LN05-38U88-PM*
Network cabinet 19", 42U, 800x800 mm	42U	1995	Perforated	Metal	LN35-42U88-PM	LN05-42U88-PM
Network cabinet 19", 47U, 800x800 mm	47U	2215	Perforated	Metal	LN35-47U88-PM	LN05-47U88-PM*
Front two-leaf perforated door, rear perforated door						
Network cabinet 19", 24U, 800x800 mm	24U	1195	Two-leaf perforated	Perforated	LN35-24U88-2PP*	LN05-24U88-2PP*
Network cabinet 19", 28U, 800x800 mm	28U	1370	Two-leaf perforated	Perforated	LN35-28U88-2PP*	LN05-28U88-2PP*
Network cabinet 19", 33U, 800x800 mm	33U	1595	Two-leaf perforated	Perforated	LN35-33U88-2PP	LN05-33U88-2PP
Network cabinet 19", 38U, 800x800 mm	38U	1815	Two-leaf perforated	Perforated	LN35-38U88-2PP*	LN05-38U88-2PP*
Network cabinet 19", 42U, 800x800 mm	42U	1995	Two-leaf perforated	Perforated	LN35-42U88-2PP	LN05-42U88-2PP
Network cabinet 19", 47U, 800x800 mm	47U	2215	Two-leaf perforated	Perforated	LN35-47U88-2PP	LN05-47U88-2PP*

Name	Height (U)	Height, mm**	Type of front door	Type of rear door	Article, grey color RAL 7035	Article, black color RAL 9005
600×1000 mm (W×D)						
Glazed door with glass						
Network cabinet 19", 18U, 600x1000 mm	18U	925	Glazed door with glass	Blind panel	LN35-18U61-G	LN05-18U61-G*
Network cabinet 19", 24U, 600x1000 mm	24U	1195	Glazed door with glass	Blind panel	LN35-24U61-G	LN05-24U61-G*
Network cabinet 19", 28U, 600x1000 mm	28U	1370	Glazed door with glass	Blind panel	LN35-28U61-G*	LN05-28U61-G*
Network cabinet 19", 33U, 600x1000 mm	33U	1595	Glazed door with glass	Blind panel	LN35-33U61-G	LN05-33U61-G*
Network cabinet 19", 38U, 600x1000 mm	38U	1815	Glazed door with glass	Blind panel	LN35-38U61-G*	LN05-38U61-G*
Network cabinet 19", 42U, 600x1000 mm	42U	1995	Glazed door with glass	Blind panel	LN35-42U61-G	LN05-42U61-G
Network cabinet 19", 47U, 600x1000 mm	47U	2215	Glazed door with glass	Blind panel	LN35-47U61-G	LN05-47U61-G
Metal door						
Network cabinet 19", 18U, 600x1000 mm	18U	925	Metal	Blind panel	LN35-18U61-M*	LN05-18U61-M*
Network cabinet 19", 24U, 600x1000 mm	24U	1195	Metal	Blind panel	LN35-24U61-M*	LN05-24U61-M*
Network cabinet 19", 28U, 600x1000 mm	28U	1370	Metal	Blind panel	LN35-28U61-M*	LN05-28U61-M*
Network cabinet 19", 33U, 600x1000 mm	33U	1595	Metal	Blind panel	LN35-33U61-M*	LN05-33U61-M*
Network cabinet 19", 38U, 600x1000 mm	38U	1815	Metal	Blind panel	LN35-38U61-M*	LN05-38U61-M*
Network cabinet 19", 42U, 600x1000 mm	42U	1995	Metal	Blind panel	LN35-42U61-M	LN05-42U61-M*
Network cabinet 19", 47U, 600x1000 mm	47U	2215	Metal	Blind panel	LN35-47U61-M	LN05-47U61-M*
Perforated door						
Network cabinet 19", 18U, 600x1000 mm	18U	925	Perforated	Blind panel	LN35-18U61-P	LN05-18U61-P
Network cabinet 19", 24U, 600x1000 mm	24U	1195	Perforated	Blind panel	LN35-24U61-P	LN05-24U61-P
Network cabinet 19", 28U, 600x1000 mm	28U	1370	Perforated	Blind panel	LN35-28U61-P*	LN05-28U61-P*
Network cabinet 19", 33U, 600x1000 mm	33U	1595	Perforated	Blind panel	LN35-33U61-P	LN05-33U61-P
Network cabinet 19", 38U, 600x1000 mm	38U	1815	Perforated	Blind panel	LN35-38U61-P*	LN05-38U61-P*
Network cabinet 19", 42U, 600x1000 mm	42U	1995	Perforated	Blind panel	LN35-42U61-P	LN05-42U61-P
Network cabinet 19", 47U, 600x1000 mm	47U	2215	Perforated	Blind panel	LN35-47U61-P	LN05-47U61-P
Front and rear perforated doors						
Network cabinet 19", 18U, 600x1000 mm	18U	925	Perforated	Perforated	LN35-18U61-PP*	LN05-18U61-PP*
Network cabinet 19", 24U, 600x1000 mm	24U	1195	Perforated	Perforated	LN35-24U61-PP*	LN05-24U61-PP*
Network cabinet 19", 28U, 600x1000 mm	28U	1370	Perforated	Perforated	LN35-28U61-PP*	LN05-28U61-PP*
Network cabinet 19", 33U, 600x1000 mm	33U	1595	Perforated	Perforated	LN35-33U61-PP*	LN05-33U61-PP*
Network cabinet 19", 38U, 600x1000 mm	38U	1815	Perforated	Perforated	LN35-38U61-PP*	LN05-38U61-PP*
Network cabinet 19", 42U, 600x1000 mm	42U	1995	Perforated	Perforated	LN35-42U61-PP	LN05-42U61-PP
Network cabinet 19", 47U, 600x1000 mm	47U	2215	Perforated	Perforated	LN35-47U61-PP	LN05-47U61-PP
Front glass door, rear perforated door						
Network cabinet 19", 24U, 600x1000 mm	24U	1195	Glazed door with glass	Perforated	LN35-24U61-GP*	LN05-24U61-GP*
Network cabinet 19", 33U, 600x1000 mm	33U	1595	Glazed door with glass	Perforated	LN35-33U61-GP*	LN05-33U61-GP*
Network cabinet 19", 42U, 600x1000 mm	42U	1995	Glazed door with glass	Perforated	LN35-42U61-GP*	LN05-42U61-GP*
Network cabinet 19", 47U, 600x1000 mm	47U	2215	Glazed door with glass	Perforated	LN35-47U61-GP*	LN05-47U61-GP*
Front and rear metal doors						
Network cabinet 19", 24U, 600x1000 mm	24U	1195	Metal	Metal	LN35-24U61-MM*	LN05-24U61-MM*
Network cabinet 19", 33U, 600x1000 mm	33U	1595	Metal	Metal	LN35-33U61-MM*	LN05-33U61-MM*
Network cabinet 19", 42U, 600x1000 mm	42U	1995	Metal	Metal	LN35-42U61-MM*	LN05-42U61-MM*
Network cabinet 19", 47U, 600x1000 mm	47U	2215	Metal	Metal	LN35-47U61-MM*	LN05-47U61-MM*

* – custom items

** – height without legs

Name	Height (U)	Height, mm**	Type of front door	Type of rear door	Article, grey color RAL 7035	Article, black color RAL 9005
800×1000 mm (W×D)						
Front glass door, rear perforated door						
Network cabinet 19", 24U, 800x1000 mm	24U	1195	Glazed door with glass	Perforated	LN35-24U81-GP	LN05-24U81-GP
Network cabinet 19", 28U, 800x1000 mm	28U	1370	Glazed door with glass	Perforated	LN35-28U81-GP	LN05-28U81-GP
Network cabinet 19", 33U, 800x1000 mm	33U	1595	Glazed door with glass	Perforated	LN35-33U81-GP	LN05-33U81-GP
Network cabinet 19", 38U, 800x1000 mm	33U	1815	Glazed door with glass	Perforated	LN35-33U81-GP	LN05-38U81-GP
Network cabinet 19", 42U, 800x1000 mm	42U	1995	Glazed door with glass	Perforated	LN35-42U81-GP	LN05-38U81-GP
Network cabinet 19", 47U, 800x1000 mm	47U	1995	Glazed door with glass	Perforated	LN35-47U81-GP	LN05-47U81-GP
Front glass door, rear metal door						
Network cabinet 19", 24U, 800x1000 mm	24U	1195	Glazed door with glass	Metal	LN35-24U81-GM	LN05-24U81-GM
Network cabinet 19", 28U, 800x1000 mm	28U	1370	Glazed door with glass	Metal	LN35-28U81-GM	LN05-24U81-GM
Network cabinet 19", 33U, 800x1000 mm	33U	1370	Glazed door with glass	Metal	LN35-33U81-GM	LN05-33U81-GM
Network cabinet 19", 38U, 800x1000 mm	38U	1815	Glazed door with glass	Metal	LN35-38U81-GM	LN05-38U81-GM
Network cabinet 19", 42U, 800x1000 mm	42U	1995	Glazed door with glass	Metal	LN35-42U81-GM	LN05-42U81-GM
Network cabinet 19", 47U, 800x1000 mm	47U	2215	Glazed door with glass	Metal	LN35-47U81-GM	LN05-47U81-GM
Front and rear perforated doors						
Network cabinet 19", 24U, 800x1000 mm	24U	1195	Perforated	Perforated	LN35-24U81-PP	LN05-24U81-PP
Network cabinet 19", 28U, 800x1000 mm	28U	1195	Perforated	Perforated	LN35-24U81-PP	LN05-28U81-PP
Network cabinet 19", 33U, 800x1000 mm	28U	1595	Perforated	Perforated	LN35-24U81-PP	LN05-33U81-PP
Network cabinet 19", 38U, 800x1000 mm	38U	1815	Perforated	Perforated	LN35-38U81-PP	LN05-38U81-PP
Network cabinet 19", 42U, 800x1000 mm	42U	1995	Perforated	Perforated	LN35-42U81-PP	LN05-42U81-PP
Network cabinet 19", 47U, 800x1000 mm	47U	2215	Perforated	Perforated	LN35-47U81-PP	LN05-47U81-PP

LINEA S Server Cabinets

ITK SERVER CABINETS ARE PRESENTED IN LINEA S SERIES AND ARE DESIGNED TO ALLOCATE HEAVY TELECOMMUNICATION EQUIPMENT AND SERVERS IN LIMITED MOUNTED SPACE. CABINETS OF THIS SERIES CAN BE USED AS A STANDALONE COMPLETE SOLUTION IN SMALL SERVER ROOMS AND AS A PART OF DATA CENTERS (DC).

DUE TO INCREASED DEPTH AND ENHANCED FRAMEWORK CONSTRUCTION STATIC LOAD CAPACITY OF A CABINET REACHES 1500 KG. LINEA S CABINETS PROVIDE GREAT NATURAL COOLING BY HIGHLY PERFORATED DOORS AND ALLOW TO ORGANIZE ADDITIONAL FORCED COOLING, IN ORDER TO PREVENT OVERHEATING OF THE INSTALLED EQUIPMENT. ITK SERVER CABINETS EFFICIENTLY SOLVE A TASK OF CONVENIENT QUICK MOUNTING AND MAINTENANCE, PROTECTION AGAINST UNAUTHORIZED ACCESS, MONITORING AND ELECTRIC POWER DISTRIBUTION. THE CABINET CAN BE ACCESSED FROM FOUR SIDES, CABLES CAN BE INSERTED VIA ENTRIES ON THE ROOF AND ON THE BASE.

ITK OFFERS A GREAT RANGE OF COMPONENTS, ACCESSORIES AND FITTINGS FOR LINEA S CABINETS, MEETING RUSSIAN AND INTERNATIONAL STANDARDS, ALLOWING CUSTOMERS NOT ONLY TO GET A HIGH QUALITY SERVER CABINET, BUT TO INSTALL A COMPLETE RELIABLE SOLUTION FOR ANY TASK AT IT INFRASTRUCTURE ORGANIZATION.





Specifications


	600×1000	600×1200	800×1000	800×1200
Construction type	framework prefabricated			
Form factor	19 inches (GOST 28601.1-90 and GOST 28601.2-90)			
Material of supporting frames	sheet steel 2.0 mm			
Static load, kg	1500			
Load when installed on rollers, kg	300			
Dimensions				
Height (U)	24U, 33U, 42U, 47U, 48U			
Width, mm	600	600	800	800
Depth, mm	1000	1200	1000	1200
Usable depth, mm	900	1100	900	1100
Configuration and properties of doors				
Front door	perforated 80% two-leaf perforated 70%			
Rear door	perforated 80%			
Material	sheet steel 1.0 mm			
Type of lock	crossbar knob-lock with single-point latching two-leaf perforated door – knob-lock with three-point latching on pull rods			
Opening angle, degree	180°			

	600×1000	600×1200	800×1000	800×1200
Side walls				
Construction	removable single			
Latching	lock and plastic patches			
Material	sheet steel 1.0 mm			
19" mounting profiles				
Profile form	G-shaped			
Material	galvanized sheet steel 2.0 mm			
Height labeling type	numerical labeling and notches on metal			
Adjustment step	25 mm			
Roof				
Construction	dual			
Material	sheet steel 1.5 mm (top base) and 1.0 mm (roof)			
Option to install on adjustable supports	none			
Quantity of cable entries	2			
Lower base				
Material	sheet steel 1.5 mm			
Quantity of cable entries	2			
Joint installation on legs and rollers	none			
Other				
Standard compliance	IEC62208, IEC60950, TR CU 020/2011, GOST 28601.1-90 and 28601.2-90			
Operation conditions according to GOST 15150	NF 4.2 (in closed premises at a temperature from -5 to +40°C and a relative humidity of up to 80% at 25°C)			
Ingress protection level according to GOST 14254	IP00			
Physical impact protection level according to GOST IEC 62262	IK10			
Color	RAL7035 (grey) / RAL9005 (black)			
Cover type	PPP shagreen			
Warranty	3 years			
Service life	25 years			
Packaging	3 corrugated cardboard boxes			


Construction features


- 


Construction type: pre-fabricated
- 


The door can be re-hung easily and quickly
- 


Static load 1500 kg
- 


Ventilated door has 80% of perforation
- 


Broad range of versions and dimensions
- 

Quick installation
- 

G-shaped form of 19" mounting profiles
- 


Compliance with Russian and international standards
- 

Internal space of the cabinet can be accessed from four sides
- 

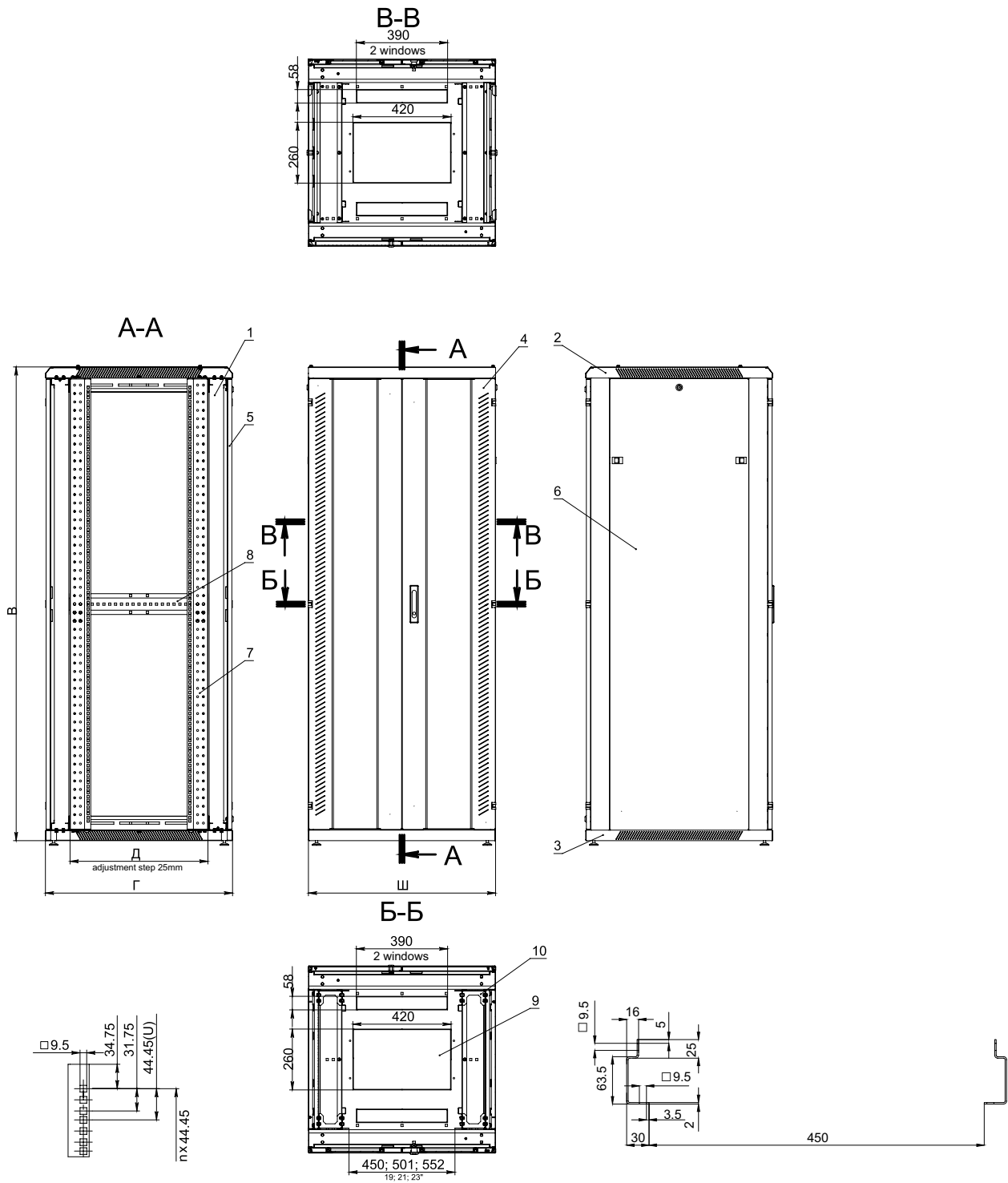
Flat compact package
- 

Side walls are removable, fitted with a lock and latches
- 

3 years warranty
- 

19" mounting profiles are adjusted per depth and have a numerical height labeling in units
- 

Service life – 25 years



1. Frame
2. Roof
3. Lower base
4. Front door
5. Rear door
6. Side wall
7. Mounting profile
8. Side profile
9. Breakout windows
10. Adapter

LINEA S cabinets 800×1000 mm, 800×1200 mm

Construction based on strong welded frames have a high degree of fixity, ensuring 1500 kg static load

Can be installed in a roof of ceiling fan panel

Locks and plastic latches on removable side walls

Doors are perforated in a shape of a regular hexahedron Perforation degree of ventilated doors – 80%


Crossbar lock with folding handle on a door

Delivered as a pre-fabricated product in corrugated boxes in three units of cargo

All current-conducting parts of a cabinet have grounding studs for a closed electrical circuit

Cabinets can be installed in a row

LINEA S cabinets 800×1000 mm, 800×1200 mm



Basic configuration includes two vertical organizers to build cable tracks

Arrangement of door hinges allows to open a door on an angle more than 180 degrees, which does not prevent from installing the cabinets in a row

19" mounting profiles have numerical height labeling in units

Single-leaf perforated doors increasing fixity from the inside are additionally enhanced by U-shaped metal profile

Central holder of 19" profiles allows to fasten cable rings and vertical cable organizers

The configuration includes three adjustable cable entries with rubber gasket for more robust fixation of cables, inserted in the cabinet

19" mounting profiles are adjusted based on depth

It is possible to install brush cable entries
Brush entry is included in the cabinet configuration

Standard package of server cabinets LINEA S

Name	Quantity, pcs.		Box number
	600×1000 mm 600×1200 mm	800×1000 mm 800×1200 mm	
1 Front door	1	1	1
2 Front frame	1	1	
3 Roof	1	1	
4 Roof panel	1	1	
5 Rear door	1	1	2
6 Rear frame	1	1	
7 Lower base	1	1	
8 Side profile	6	2	
9 Profile holder	-	4	
10 Corner piece	4	4	
11 19" profile guide	-	4	
12 Mounting profile	4	4	
13 Adjustable legs	4	4	
14 150 mm vertical organizer	2	2	
15 Brush entry	1	1	
16 Adjustable cable entry with rubber gasket	3	3	
17 Grounding	1 set	1 set	
18 Fastener assembly M6 (screw+washer+captive nut)	1 set	1 set	
19 Assembly set of a cabinet	1 set	1 set	
20 Product datasheet	1	1	
21 Side panel	2	2	3

Features of ITK® LINEA S server cabinets configuration

When manufactured, ITK® server on-floor cabinets are packaged into 3 separate corrugated cardboard boxes and are delivered to customers and partners in disassembled set in 3 cargo units.

Note, that every box has its article in a price list, so in order to assemble a complete cabinet, it is necessary to order all 3 parts. To simplify selection of required parts when generating specifications for a cabinet and submitting an order for on-floor cabinets, ITK professionals developed a stock-keeping system, which differs from designations in a catalog only by digits 1, 2, 3 at the end according to a number of every party of a cabinet.

Example:

LS35-42U61-PP – Article in a catalog

Complete delivery package in a price list consists of:

Part 1: LS35-42U61-PP-1

Part 2: LS35-42U61-PP-2

Part 3: LS35-42U61-PP-3

Important!

Each part must be added to an order separately!



This way of packaging and delivery of cabinets offers the following advantages:

- simplicity and saving on logistics;
- convenient storage and space optimization on a warehouse;
- easy and convenient lifting on a required floor and passing through standard door ways.

Composition of parts and components of every unit is presented in a LINEA S cabinets configuration table.



Cabinets can be selected in a configurator at a website www.iek.group










Product range

Name	Height (U)	Height, mm**	Type of front door	Type of rear door	Usable depth, mm	Article, grey color RAL 7035	Article, black color RAL 9005
600×1000 mm (W×D)							
Server cabinet, 24U, 600x1000 mm	24U	1210	Perforated	Perforated	900	LS35-24U61-PP*	LS05-24U61-PP*
Server cabinet, 24U, 600x1000 mm	24U	1210	Double perforated	Perforated	900	LS35-24U61-2PP*	LS05-24U61-2PP*
Server cabinet, 33U, 600x1000 mm	33U	1610	Perforated	Perforated	900	LS35-33U61-PP*	LS05-33U61-PP*
Server cabinet, 33U, 600x1000 mm	33U	1610	Double perforated	Perforated	900	LS35-33U61-2PP*	LS05-33U61-2PP*
Server cabinet, 42U, 600x1000 mm	42U	2025	Perforated	Perforated	900	LS35-42U61-PP*	LS05-42U61-PP*
Server cabinet, 42U, 600x1000 mm	42U	2025	Double perforated	Perforated	900	LS35-42U61-2PP*	LS05-42U61-2PP*
Server cabinet, 47U, 600x1000 mm	47U	2244	Perforated	Perforated	900	LS35-47U61-PP*	LS05-47U61-PP*
Server cabinet, 47U, 600x1000 mm	47U	2244	Double perforated	Perforated	900	LS35-47U61-2PP*	LS05-47U61-2PP*
800×1000 mm (W×D)							
Server cabinet, 24U, 800x1000 mm	24U	1210	Perforated	Blind panel	900	LS35-24U81-P*	LS05-24U81-P*
Server cabinet, 24U, 800x1000 mm	24U	1210	Perforated	Perforated	900	LS35-24U81-PP*	LS05-24U81-PP*
Server cabinet, 24U, 800x1000 mm	24U	1210	Double perforated	Perforated	900	LS35-24U81-2PP*	LS05-24U81-2PP*
Server cabinet, 33U, 800x1000 mm	33U	1610	Perforated	Blind panel	900	LS35-33U81-P*	LS05-33U81-P*
Server cabinet, 33U, 800x1000 mm	33U	1610	Perforated	Perforated	900	LS35-33U81-PP	LS05-33U81-PP
Server cabinet, 33U, 800x1000 mm	33U	1610	Double perforated	Perforated	900	LS35-33U81-2PP	LS05-33U81-2PP
Server cabinet, 42U, 800x1000 mm	42U	2025	Perforated	Blind panel	900	LS35-42U81-P*	LS05-42U81-P*
Server cabinet, 42U, 800x1000 mm	42U	2025	Perforated	Perforated	900	LS35-42U81-PP	LS05-42U81-PP
Server cabinet, 42U, 800x1000 mm	42U	2025	Double perforated	Perforated	900	LS35-42U81-2PP	LS05-42U81-2PP
Server cabinet, 47U, 800x1000 mm	47U	2244	Perforated	Blind panel	900	LS35-47U81-P*	LS05-47U81-P*
Server cabinet, 47U, 800x1000 mm	47U	2244	Perforated	Perforated	900	LS35-47U81-PP*	LS05-47U81-PP*
Server cabinet, 47U, 800x1000 mm	47U	2244	Double perforated	Perforated	900	LS35-47U81-2PP*	LS05-47U81-2PP*
600×1200 mm (W×D)							
Server cabinet, 42U, 600x1200 mm	42U	2025	Perforated	Perforated	1100	LS35-42U62-PP*	LS05-42U62-PP*
Server cabinet, 42U, 600x1200 mm	42U	2025	Double perforated	Perforated	1100	LS35-42U62-2PP*	LS05-42U62-2PP*
Server cabinet, 47U, 600x1200 mm	47U	2244	Perforated	Perforated	1100	LS35-47U62-PP*	LS05-47U62-PP*
Server cabinet, 47U, 600x1200 mm	47U	2244	Double perforated	Perforated	1100	LS35-47U62-2PP*	LS05-47U62-2PP*
800×1200 mm (W×D)							
Server cabinet, 42U, 800x1200 mm	42U	2025	Perforated	Perforated	1100	LS35-42U82-PP*	LS05-42U82-PP*
Server cabinet, 42U, 800x1200 mm	42U	2025	Double perforated	Perforated	1100	LS35-42U82-2PP*	LS05-42U82-2PP*
Server cabinet, 47U, 800x1200 mm	47U	2244	Perforated	Perforated	1100	LS35-47U82-PP*	LS05-47U82-PP*
Server cabinet, 47U, 800x1200 mm	47U	2244	Double perforated	Perforated	1100	LS35-47U82-2PP*	LS05-47U82-2PP*

* – custom items

** – height without legs

Components and accessories to 19" LINEA S server cabinets

Type	Name	Height, U	Color	Article
	Fan ceiling panel, with a thermostat, 4 fans	-	RAL 9005	FM05-42
			RAL 7035	FM35-42
	19" sliding shelf 800 mm deep	1U	RAL 9005	SS05-800PI
			RAL 7035	SS35-800PI
	Cable organizer 19" 1U 6 rings	1U	RAL 9005	CO05-1M6R
			RAL 7035	CO35-1M6R
	19" fan module 1U 4 fans	1U	RAL 9005	FM05-1U4TS
	Fixed shelf 800 mm deep	1U	RAL 9005	FS05-800PI
			RAL 7035	FS35-800PI
	Blanking plate (plug) 1U	1U	RAL 9005	FP05-01UM
			RAL 7035	FP35-01UM
	Blanking plate (plug) 2U	2U	RAL 9005	FP05-02UM
			RAL 7035	FP35-02UM
	Metal cable ring 70X44 mm	-	RAL 9005	CR05-7044
			RAL 7035	CR35-7044
	19" 1U brush entry	1U	RAL 9005	BE05-01UM
			RAL 7035	BE35-01UM

The full list of ITK® accessories and components for 19" cabinets can be found on page 45

Additional components and solutions for ITK cabinets



In order to build SCS from category 5E to 6A with operating frequency up to 500 MHz we recommend to use **ITK copper components and patch panels**, that are perfect for installation in ITK® 19" cabinets and racks and ensure maximum compatibility with each other

[Learn more on page 126](#)



In order to organize state of the art optical switch systems, we recommend to install 19" optical crosses and optical components into ITK cabinets and racks. **ITK optical crosses** are the best solution for such task.

[Learn more on page 161](#)



Entry and electric power distribution on active equipment installed inside of ITK cabinets is executed using **socket boards and PDU ITK**

[Learn more on page 183](#)



In order to ensure good cabling in 19" network and server cabinets, reliable fixation of cable harnesses and to protect cables from potential crushing, we recommend to use **ITK cable ties and sticky tapes**

[Learn more on page 115](#)

Wall-mounted 19" cabinets

Wall-mounted ITK cabinets are used for compact allocation of light 19 inches telecommunication equipment and crosses and designed for local networks, deployed in limited space with no specially designated premises. Usually they are installed in small office premises, in corridors, on stairwell landings of non-residential, administration buildings and business centers.

LINEA W series cabinets

LINEA W series wall-mounted cabinets are applied for compact and convenient allocation of telecommunication equipment. They offer quick and simple access for maintenance, have a nice visual look and don't spoil the interior of premises, which is quite important in such cases.

Construction features of ITK® wall-mounted cabinets allow to maintain the 19" equipment from three sides, securely protect it against unauthorized access, ensure good ventilation, insert information and power cables both from the top and from the bottom. Due to modular construction, small weight and dimensions, LINEA W cabinets can be easily transported and quickly assembled by a single person. The cabinets can be mounted on the wall, on the floor or on another surface using legs included in delivery set.



Specifications

	600×450	600×600
Construction type	prefabricated	
Form factor	19 inches (GOST 28601.1-90 and GOST 28601.2-90)	
Material of supporting frames	sheet steel 1.5 mm	
Static load, kg	90	
Load when installed on supports, kg	300	
Dimensions		
Height (U)	6U, 9U, 12U, 15U, 18U	
Width, mm	600	600
Depth, mm	450	600
Usable depth, mm	350	500
Configuration and properties of doors		
Front door	glass metal perforated 65%	
Material	sheet steel 1.5 mm	
Type of glass	tinted shock-proof 5.0 mm	
Type of lock	crossbar single-point lock	
Opening angle, degree	200°	

	600×450	600×600
Side walls		
Construction	removable	
Latching	lock and plastic patches	
Material	sheet steel 1.0 mm	
19" mounting profiles		
Profile form	L-shaped	
Material	galvanized sheet steel 1.5 mm	
Height labeling type	numerical labeling and notches on metal	
Adjustment step	25 mm	
Quantity, pcs.	4	
Roof		
Material	sheet steel 1.5 mm	
Quantity of installed fan panels	1	2
Quantity of cable entries	1	
Lower base		
Material	sheet steel 1.5 mm	
Quantity of cable entries	1	
Option to install on adjustable supports	yes (included in package)	
Other		
Standard compliance	IEC62208, IEC60950, TR CU 020/2011, GOST 28601.1-90 and 28601.2-90, GOST 14254	
Operation conditions according to GOST 15150	U3 (in closed premises at a temperature from -10 to +45°C and a relative humidity of up to 80% at 25°C)	
Ingress protection level according to GOST 14254	IP20 IP00 – cabinets with perforated doors	
Physical impact protection level according to GOST IEC 62262	IK10 IK08 – glass door	
Color	RAL7035 (grey) / RAL9005 (black)	
Cover type	PPP shagreen matte / PPP shagreen moire	
Warranty	3 years	
Service life	25 years	
Packaging	1 corrugated cardboard box	

Construction features



Construction type: pre-fabricated



Side walls are removable, fitted with a lock and latches



L-shaped form of 19" mounting profiles



19" mounting profiles are adjusted per depth and have a numerical height labeling in units



Internal space of the cabinet can be accessed from four sides



Broad range of versions and dimensions



The door can be re-hung easily and quickly



Ventilated door has 65% of perforation



Assembly and installation in 15 minutes



Compliance with Russian and international standards



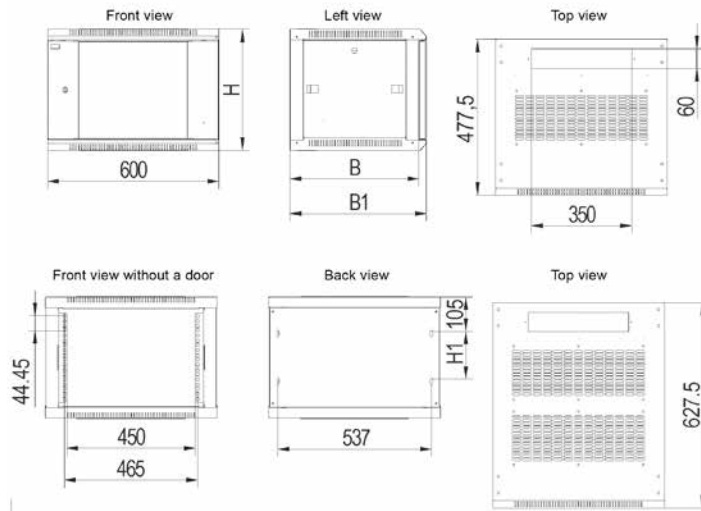
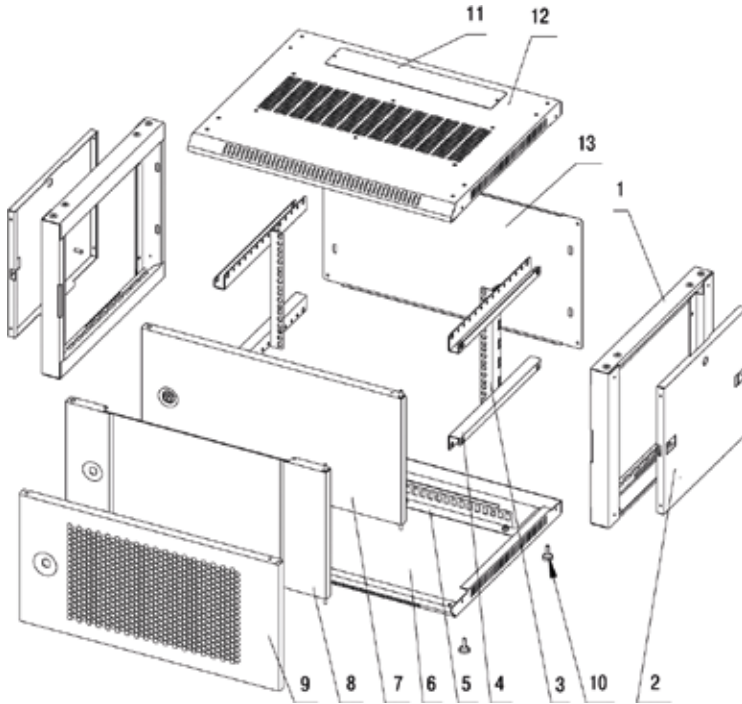
Flat compact package



3 years warranty



Service life – 25 years



- | | |
|---------------------|------------------------|
| 1. Frame | 8. Door with glass |
| 2. Side panel | 9. Perforated door |
| 3. Vertical profile | 10. Adjustable support |
| 4. Horizontal plane | 11. Cover |
| 5. Cable holder | 12. Roof |
| 6. Bottom | 13. Rear wall |
| 7. Metal door | |

LINEA W cabinets 600×450 mm, 600×600 mm

The cable is inserted into the cabinet from the top or from the bottom through a breakout blank plug. If necessary, the cable entry can be closed using a cap included in delivery package



It is possible to install one or two roof ceiling fan panels on 2 or 3 modules



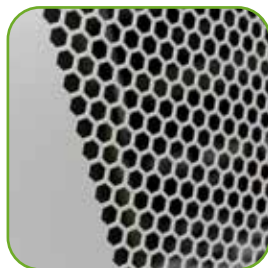
Glazing door is made of tinted shock-proof glass with protective film, preventing from scratches during transportation or installation



Removable side walls with a lock and plastic latches for simple maintenance



Doors are perforated in a shape of a regular hexahedron Perforation degree of ventilated doors – 65%



Cabinet construction allows to install it on adjustable supports. Supports are included in cabinet package



The cabinets are delivered in a disassembled package within a single cargo unit inside of a compact corrugated box



LINEA W cabinets 600×450 mm, 600×600 mm

Basic configuration includes rear wall, legs M6×25 mm, L-shape screws and anchors for wall mounting, ground wires

19" mounting profiles are adjusted based on depth

Lift-latch hinge allows to quickly and easily remove the door from the cabinet frame or re-hang it to another side

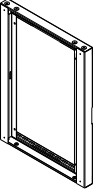
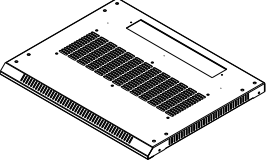
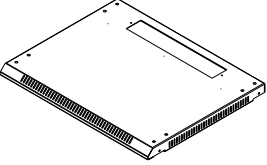
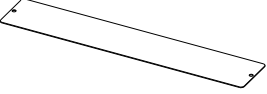
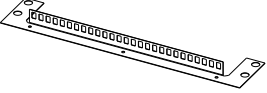
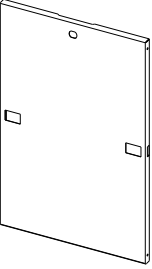
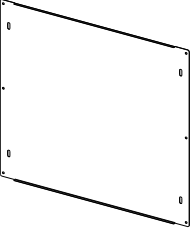
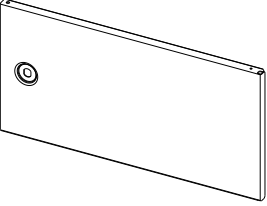
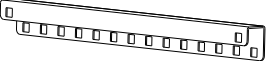
19" mounting profiles have double height labeling in units: numerical and by notches

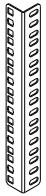
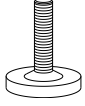
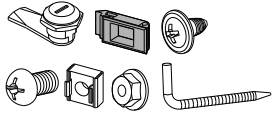

All current-conducting parts of a cabinet have grounding studs for a closed electrical circuit

All LINEA W cabinets are packaged with two pairs of 19" mounting profiles

The construction set includes organizers, installed on a roof and a base near cable entries for fixation of a cable inserted into the cabinet

LINEA W cabinets configuration

	Name	Quantity
	Frame	2 pcs.
	Roof	1 pc.
	Base	1 pc.
	Cover on a cable entry	2 pcs.
	Cable holder (organizer)	2 pcs.
	Side panel	2 pcs.
	Rear wall	1 pc.
	Door	1 pc.
	Plane (side profile)	4 pcs.

	Name	Quantity
	19" mounting profile	4 pcs.
	Adjustable supports M6x25 mm	4 pcs.
	Assembly set	1 set
	Data sheet	1 copy
	Assembly instructions	1 copy



Cabinets can be selected
in a configurator
at a website www.iek.group

Product range

Name	Height (U)	Height, mm	Door type	Article, grey color RAL 7035	Article, black color RAL 9005
600×450 mm (W×D)					
Wall-mounted 19" cabinet, 6U, 600x450 mm	6U	370	Glazed door with glass	LWR3-06U64-GF	LWR5-06U64-GF
Wall-mounted 19" cabinet, 6U, 600x450 mm	6U	370	Solid metal	LWR3-06U64-MF	LWR5-06U64-MF*
Wall-mounted 19" cabinet, 6U, 600x450 mm	6U	370	Perforated	LWR3-06U64-PF*	LWR5-06U64-PF*
Wall-mounted 19" cabinet, 9U, 600x450 mm	9U	500	Glazed door with glass	LWR3-09U64-GF	LWR5-09U64-GF
Wall-mounted 19" cabinet, 9U, 600x450 mm	9U	500	Solid metal	LWR3-09U64-MF*	LWR5-09U64-MF*
Wall-mounted 19" cabinet, 9U, 600x450 mm	9U	500	Perforated	LWR3-09U64-PF*	LWR5-09U64-PF*
Wall-mounted 19" cabinet, 12U, 600x450 mm	12U	635	Glazed door with glass	LWR3-12U64-GF	LWR5-12U64-GF
Wall-mounted 19" cabinet, 12U, 600x450 mm	12U	635	Solid metal	LWR3-12U64-MF*	LWR5-12U64-MF*
Wall-mounted 19" cabinet, 12U, 600x450 mm	12U	635	Perforated	LWR3-12U64-PF*	LWR5-12U64-PF*
Wall-mounted 19" cabinet, 15U, 600x450 mm	15U	770	Glazed door with glass	LWR3-15U64-GF	LWR5-15U64-GF
Wall-mounted 19" cabinet, 15U, 600x450 mm	15U	770	Solid metal	LWR3-15U64-MF	LWR5-15U64-MF*
Wall-mounted 19" cabinet, 15U, 600x450 mm	15U	770	Perforated	LWR3-15U64-PF*	LWR5-15U64-PF*
Wall-mounted 19" cabinet, 18U, 600x450 mm	18U	900	Glazed door with glass	LWR3-18U64-GF	LWR5-18U64-GF
Wall-mounted 19" cabinet, 18U, 600x450 mm	18U	900	Solid metal	LWR3-18U64-MF*	LWR5-18U64-MF*
Wall-mounted 19" cabinet, 18U, 600x450 mm	18U	900	Perforated	LWR3-18U64-PF*	LWR5-18U64-PF*
600×600 mm (W×D)					
Wall-mounted 19" cabinet, 6U, 600x600 mm	6U	370	Glazed door with glass	LWR3-06U66-GF	LWR5-06U66-GF
Wall-mounted 19" cabinet, 6U, 600x600 mm	6U	370	Solid metal	LWR3-06U66-MF	LWR5-06U66-MF*
Wall-mounted 19" cabinet, 6U, 600x600 mm	6U	370	Perforated	LWR3-06U66-PF*	LWR5-06U66-PF*
Wall-mounted 19" cabinet, 9U, 600x600 mm	9U	500	Glazed door with glass	LWR3-09U66-GF	LWR5-09U66-GF
Wall-mounted 19" cabinet, 9U, 600x600 mm	9U	500	Solid metal	LWR3-09U66-MF*	LWR5-09U66-MF*
Wall-mounted 19" cabinet, 9U, 600x600 mm	9U	500	Perforated	LWR3-09U66-PF	LWR5-09U66-PF*
Wall-mounted 19" cabinet, 12U, 600x600 mm	12U	635	Glazed door with glass	LWR3-12U66-GF	LWR5-12U66-GF
Wall-mounted 19" cabinet, 12U, 600x600 mm	12U	635	Solid metal	LWR3-12U66-MF*	LWR5-12U66-MF*
Wall-mounted 19" cabinet, 12U, 600x600 mm	12U	635	Perforated	LWR3-12U66-PF	LWR5-12U66-PF
Wall-mounted 19" cabinet, 15U, 600x600 mm	15U	770	Glazed door with glass	LWR3-15U66-GF	LWR5-15U66-GF
Wall-mounted 19" cabinet, 15U, 600x600 mm	15U	770	Solid metal	LWR3-15U66-MF	LWR5-15U66-MF*
Wall-mounted 19" cabinet, 15U, 600x600 mm	15U	770	Perforated	LWR3-15U66-PF	LWR5-15U66-PF
Wall-mounted 19" cabinet, 18U, 600x600 mm	18U	900	Glazed door with glass	LWR3-18U66-GF	LWR5-18U66-GF
Wall-mounted 19" cabinet, 18U, 600x600 mm	18U	900	Solid metal	LWR3-18U66-MF	LWR5-18U66-MF*
Wall-mounted 19" cabinet, 18U, 600x600 mm	18U	900	Perforated	LWR3-18U66-PF	LWR5-18U66-PF*

* custom items

Flush-mounting cabinets

Flush-mounting ITK cabinets are mounted into specially arranged cavities in walls, floor, ceiling. They save space in a room, reliably hide the equipment and offer an adequately usable area for convenient mounting inside of a cabinet.

They are designed for allocation of telecommunication active and passive equipment, routers, "smart home" hardware. They have cutting-edge minimalistic design and robust metal construction.

LINEA R series multimedia cabinets

NEW

LINEA R multimedia cabinet is designed for allocation of a router in an apartment, in a home, office or any other premises, where a high quality Wi-Fi signal is required.

It is easily mounted into the wall using a minimum set of tools. Firstly it is necessary to mount an enclosure, than a removable frame with a door. Extended configuration allows not to buy additional components – only a router will be needed. Arrangement of all elements inside can be changed depending on individual needs.

The cabinet perfectly fits the interior due to modern minimalistic design. Saves space. Glass opaque door doesn't block Wi-Fi signal and hides the devices inside.



Specifications

	400×400
Construction type	all-welded with removable frame and door
Material	sheet steel 1.5 mm
Dimensions	
Height (U)	400
Width, mm	400
Depth, mm	100
Configuration and properties of doors	
Front door	Glazed door with glass
Material	sheet steel 1.5 mm
Type of glass	opaque matte 5.0 mm
Type of lock	knob-lock
Opening angle, degree	120°
Other	
Standard compliance	GOST IEC 62208-2013, GOST 14254, GOST IEC 62262, GOST 15150
Operation conditions according to GOST 15150	U3 (in closed premises at a temperature from -10 to +45°C and relative humidity up to 80% at 25°C)
Ingress protection level according to GOST 14254	IP20
Physical impact protection level according to GOST IEC 62262	IK08
Color	RAL9016 (white)
Cover type	powder
Warranty	3 years
Service life	25 years
Packaging	1 corrugated cardboard box

Construction features



Construction type: pre-fabricated



Compliance with Russian and international standards



The door can be re-hung easily and quickly



Service life – 25 years



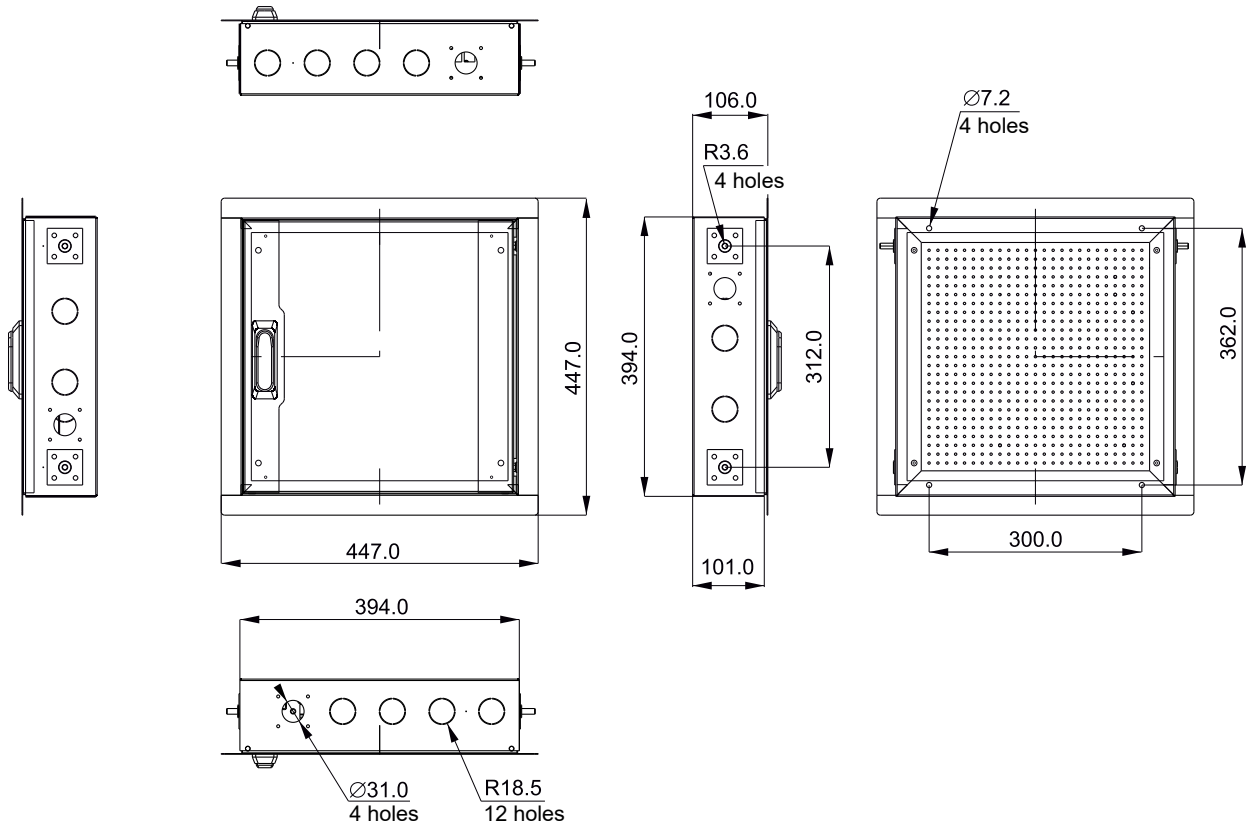
Extended configuration



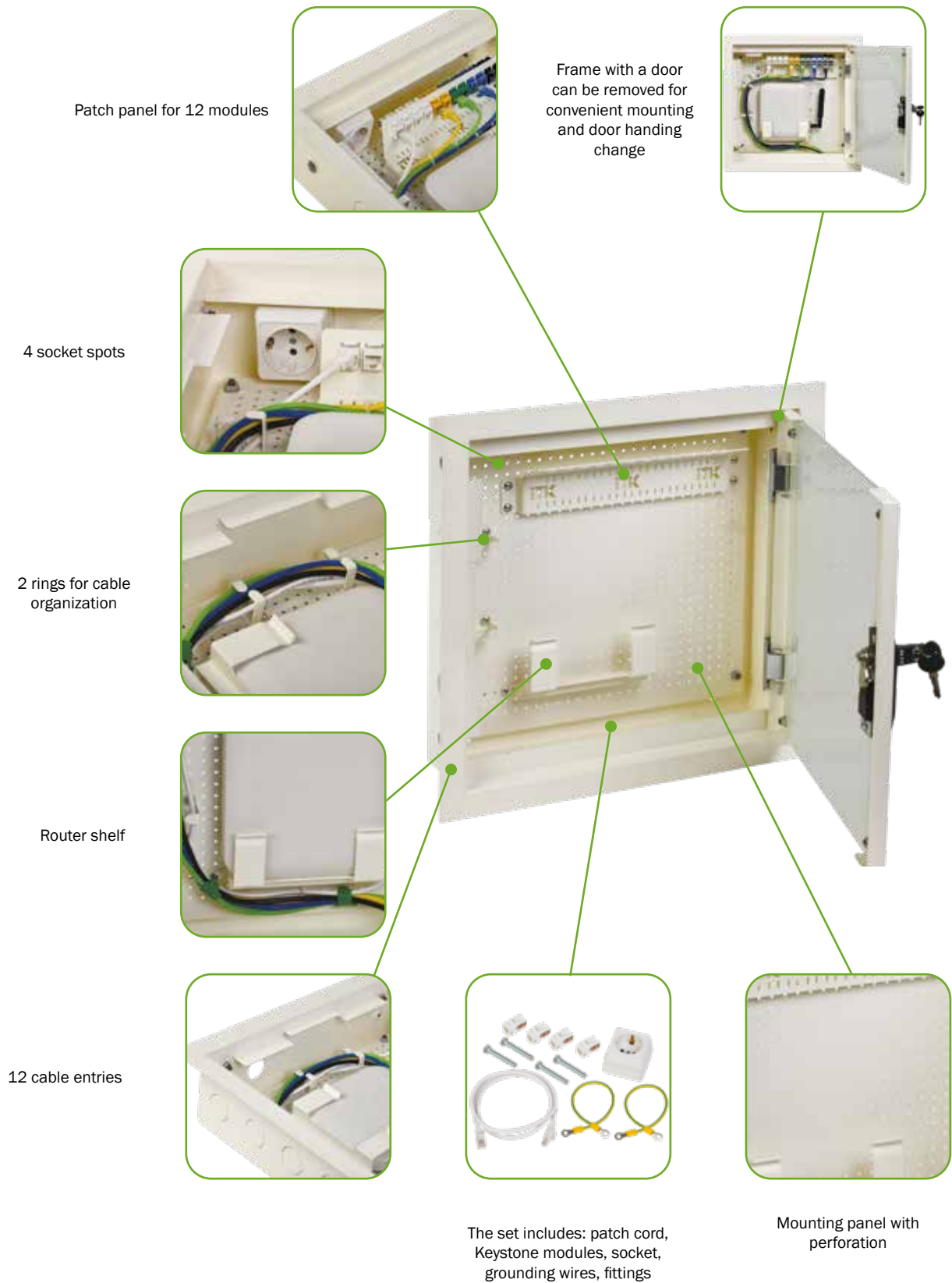
3 years warranty



Assembly and installation in 15 minutes



Name	Q-ty, pcs
Enclosure	1
Attachable frame with a door and a lock	1
Mounting panel with fittings	1
Modular patch panel for 12 RJ-45 ports	1
Cable organizer	2
Router shelf	1
Keystone RJ45 module	4
Socket	1
Door and enclosure grounding wire	2
Patch cord	1
Enclosure fastening bolts	4



Product range

Name	Overall dimensions	Door type	Article
400×400 mm (W×D)			
ITK LINEA R multimedia flush-mounting wall cabinet 400x400 mm, glass door, white RAL9016	400×400×100	Glazed door with glass	LR16-4H41-G

Specifications

	single frame	two-frames
Construction type	prefabricated	
Form factor	19 inches (GOST 28601.1-90 and GOST 28601.2-90)	
Material of supporting frames	sheet steel 1.5 mm	
Static load, kg	300	500
Dimensions		
Height (U)	20U, 24U, 33U, 37U, 42U, 47U	20U, 24U, 33U, 37U, 42U, 47U
Width, mm	600	600
Depth, mm	600	600
Usable depth, mm	600	400
19-inches mounting profiles		
Profile form	G-shaped	
Material	sheet steel 1.5 mm	
Height labeling type	notches on metal	
Adjustment step, mm	-	30
Quantity, pcs	2	4
Lower base		
Material	sheet steel 1.5 mm	
Option to install on adjustable supports/rollers	yes	
Other		
Standard compliance	IEC62208, IEC60950, TR CU 020/2011, GOST 28601.1-90 and 28601.2-90	
Operation conditions according to GOST 15150	NF 4.2 (in closed premises at a temperature from -5 to +40°C and a relative humidity of up to 80% at 25°C)	
Physical impact protection level according to GOST IEC 62262	IK10	
Color	RAL7035 (grey) / RAL9005 (black)	
Cover type	PPP shagreen	
Warranty	3 years	
Service life	25 years	
Packaging	1 corrugated cardboard box	

Construction features


Construction type: pre-fabricated



Static load 500 kg



G-shaped form of 19" mounting profiles



Compact size and light weight



Internal space of the cabinet can be accessed from four sides



19" mounting profiles are adjusted based on depth with H = 30 mm



Quick installation



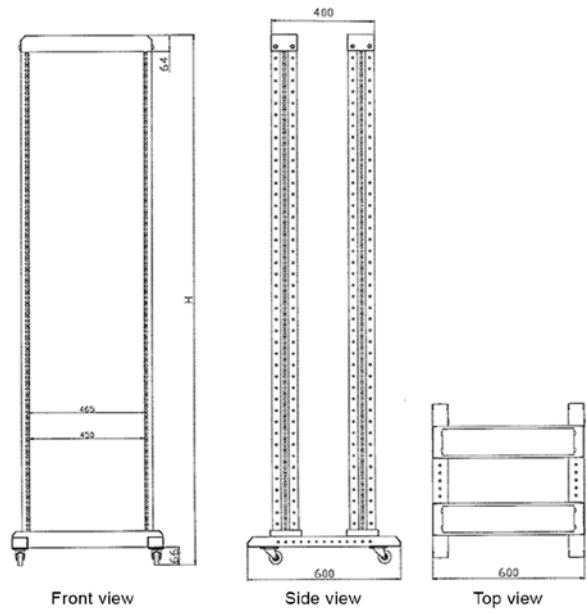
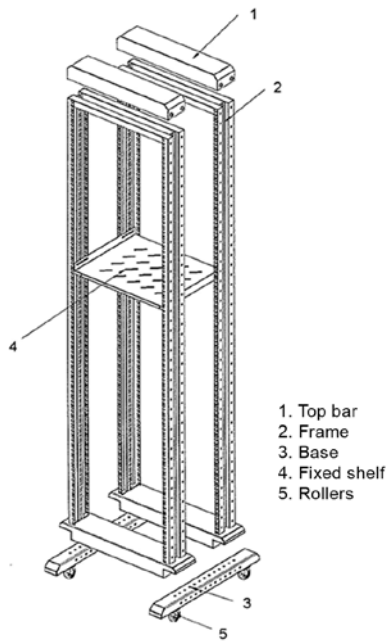
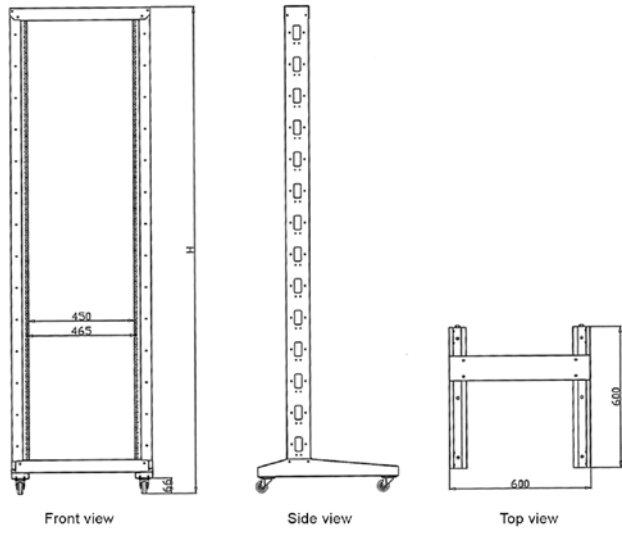
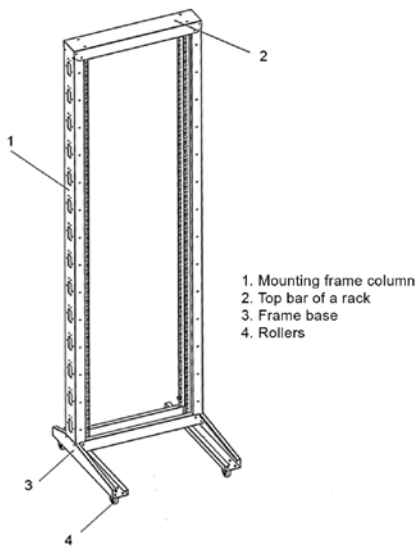
Compliance with Russian and international standards



Flat compact package



3 years warranty



Open mounting racks LINEA F on rollers

The cabinets are delivered in a disassembled package within a single cargo unit inside of a compact corrugated box

Compatible with majority of ITK components and accessories for 19-inches cabinets

Racks can be installed in a row

Racks come in two colors: black RAL9005 and grey RAL7035

Mounting holes on outer side of the supporting frame along the entire height of a rack allow to install vertical cable organizers

Mounting racks have windows for vertical cable tracks

19" mounting profiles are adjusted based on depth with a step 30 mm

Rollers have blocking brakes for fixation in static position

19" mounting profiles have a height labeling in units by notches

LINEA F racks configuration

Name	Single-frame, q-ty, pcs.	Two-frame, q-ty, pcs.
1. Assembly frame	1	2
2. Bottom support cross bar	2	2
3. Corner combining frames	-	2
4. Rollers	4	4
5. Mounting set for assembly	1	1
6. Assembly instructions	1	1



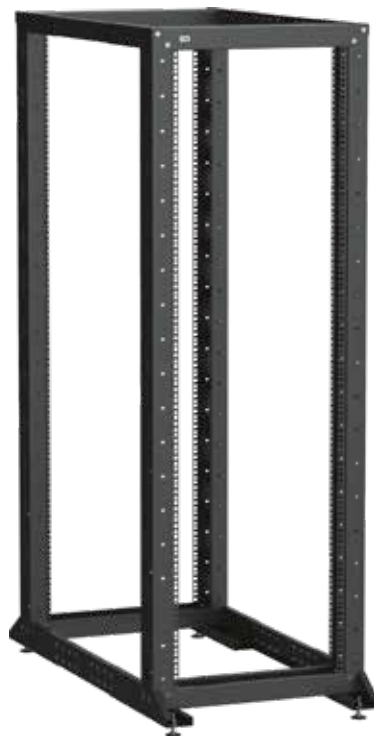
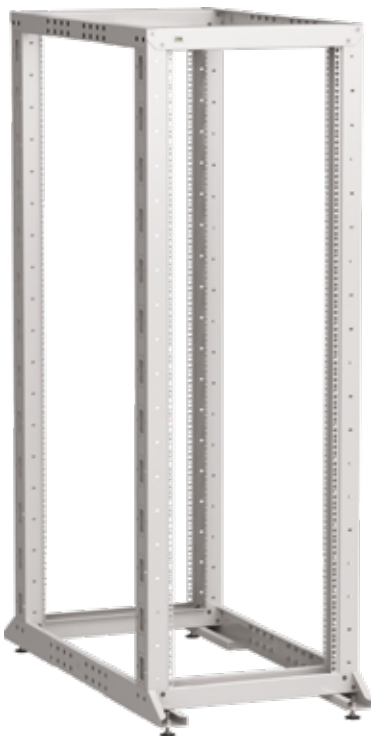
Cabinets can be selected
in a configurator
at a website www.iek.group

Product range

Name	Height (U)	Width, mm	Usable depth, mm	Article, grey color RAL 7035	Article, black color RAL 9005
ITK LINEA F 1-frame rack on rollers 20U 600x600 mm	20U	600	-	LF35-20U66-1RM	LF05-20U66-1RM
ITK LINEA F 1-frame rack on rollers 24U 600x600 mm	24U	600	-	LF35-24U66-1RM	LF05-24U66-1RM
ITK LINEA F 1-frame rack on rollers 33U 600x600 mm	33U	600	-	LF35-33U66-1RM	LF05-33U66-1RM
ITK LINEA F 1-frame rack on rollers 37U 600x600 mm	37U	600	-	LF35-37U66-1RM	LF05-37U66-1RM
ITK LINEA F 1-frame rack on rollers 42U 600x600 mm	42U	600	-	LF35-42U66-1RM	LF05-42U66-1RM
ITK LINEA F 1-frame rack on rollers 47U 600x600 mm	47U	600	-	LF35-47U66-1RM	LF05-47U66-1RM
ITK LINEA F 2-frame rack on rollers 20U 600x600 mm	20U	600	400	LF35-20U66-2RM	LF05-20U66-2RM
ITK LINEA F 2-frame rack on rollers 24U 600x600 mm	24U	600	400	LF35-24U66-2RM	LF05-24U66-2RM
ITK LINEA F 2-frame rack on rollers 33U 600x600 mm	33U	600	400	LF35-33U66-2RM	LF05-33U66-2RM
ITK LINEA F 2-frame rack on rollers 37U 600x600 mm	37U	600	400	LF35-37U66-2RM	LF05-37U66-2RM
ITK LINEA F 2-frame rack on rollers 42U 600x600 mm	42U	600	400	LF35-42U66-2RM	LF05-42U66-2RM
ITK LINEA F 2-frame rack on rollers 47U 600x600 mm	47U	600	400	LF35-47U66-2RM	LF05-47U66-2RM

Racks with adjustable depth

LINEA F series open mounting racks with adjustable depth are designed for allocation of 19" telecommunication equipment, servers, 19" crosses and other specialized hardware in enclosed premises with limited access. LINEA F racks construction has two frames, adjusted based on depth from 600 to 1000 mm with 50 mm step. Static load of racks when installed on legs is 700 kg. Racks can be installed on legs (not included in the configuration). Due to their construction features, open racks have some advantages in comparison with cabinets, such as unconfined and more convenient mounting/unmounting of equipment, simple administration, better ventilation and cooling of the installed equipment, simple assembly of the construction and small weight.



Specifications

	LINEA F
Construction type	pre-fabricated with adjustable depth
Form factor	19 inches (GOST 28601.1-90 and GOST 28601.2-90)
Support frame material	sheet steel 2.0 mm
Static load, kg	700
Load when installed on rollers, kg	500
Dimensions	
Height (U)	20U, 24U, 33U, 37U, 42U
Width, mm	600
Depth, mm	from 800 to 1200 mm
Usable depth, mm	adjusted from 600 to 1000 mm with 50 mm step

LINEA F	
19-inches mounting profiles	
Profile form	G-shaped
Material	sheet steel 2.0 mm
Height labeling type	notches on the metal, self-adhesive tape with numerical height labeling in units
Adjustment step	50 mm
Quantity, pcs.	4
Lower base	
Material	sheet steel 2.0 mm
Option to install on adjustable supports/rollers	yes
Other	
Standard compliance	IEC62208, IEC60950, TR CU 020/2011, GOST 28601.1-90 and 28601.2-90
Operation conditions according to GOST 15150	NF 4.2 (in closed premises at a temperature from -5 to +40°C and a relative humidity of up to 80% at 25°C)
Physical impact protection level according to GOST IEC 62262	IK10
Color	RAL7035 (grey) / RAL9005 (black)
Cover type	PPP shagreen
Warranty	3 years
Service life	25 years
Packaging	1 corrugated cardboard box

Construction features



Construction type: pre-fabricated



Quick installation



Static load 700 kg



Compliance with Russian and international standards



Compact size and light weight



Flat compact package



Internal space can be accessed from four sides

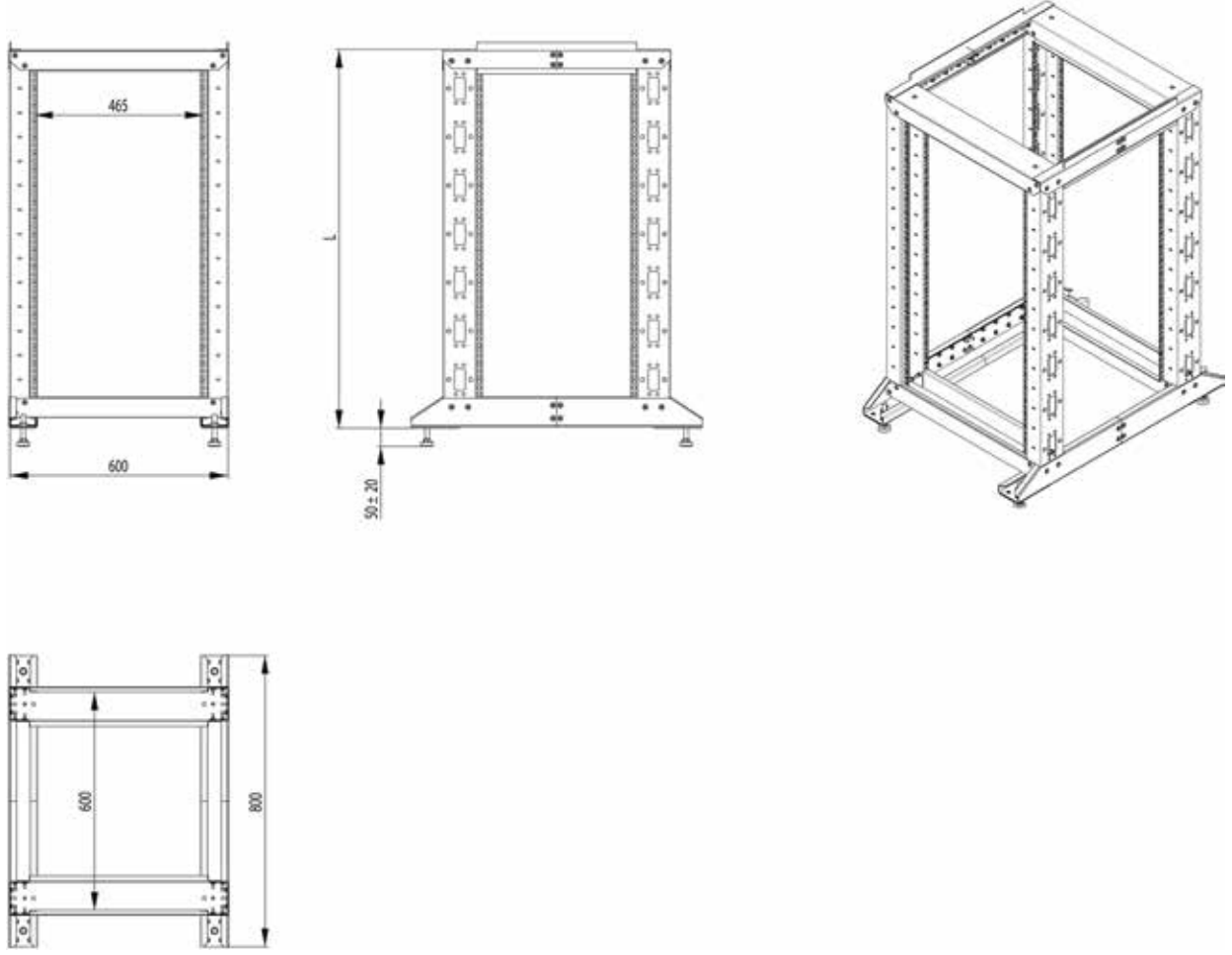


3 years warranty



19" mounting profiles are adjusted based on depth with H = 50 mm

LINEA F rack overall dimensions



LINEA F open mounting racks with adjustable depth

Construction of the supporting frame is made of 2 mm steel and has a high degree of fixity, ensuring 700 kg static load

19" mounting profiles are adjusted based on depth with a step 50 mm

19" mounting profiles have a height labeling in units by notches

Racks come in two colors: black RAL9005 and grey RAL7035

Mounting holes on the outer side of the supporting frame along the entire height of a rack allow to install vertical cable organizers

Racks can be installed in a row

Can be installed on ITK-HP-25 rotating rollers

The cabinets are delivered in a disassembled package within a single cargo unit inside of a compact corrugated box

LINEA F racks configuration

Nos.	Name	Quantity
1	Rack	4 pcs.
2	Jumper	4 pcs.
3	Top adjustment profile	2 pcs.
4	Bottom adjustment profile	2 pcs.
5	Right leg	2 pcs.
6	Left leg	2 pcs.
7	Right edge	2 pcs.
8	Left edge	2 pcs.
9	Adjustment support	4 pcs.
10	Assembly kit	1 kit
11	Mounting guidelines	1 copy
12	Data sheet	1 copy



Cabinets can be selected
in a configurator
at a website www.iek.group

Product range

Name	Height (U)	Height, mm	Usable depth, mm	Article, grey color RAL 7035	Article, black color RAL 9005
ITK LINEA F 20U 2-frame rack 600×600-1000 mm	20U	800-1200	600-1000	LF35-20U61-2GM	LF05-20U61-2GM
ITK LINEA F 24U 2-frame rack 600×600-1000 mm	24U	800-1200	600-1000	LF35-24U61-2GM	LF05-24U61-2GM
ITK LINEA F 33U 2-frame rack 600×600-1000 mm	33U	800-1200	600-1000	LF35-33U61-2GM	LF05-33U61-2GM
ITK LINEA F 37U 2-frame rack 600×600-1000 mm	37U	800-1200	600-1000	LF35-37U61-2GM	LF05-37U61-2GM
ITK LINEA F 42U 2-frame rack 600×600-1000 mm	42U	800-1200	600-1000	LF35-42U61-2GM	LF05-42U61-2GM
ITK LINEA F 47U 2-frame rack 600×600-1000 mm	47U	800-1200	600-1000	LF35-47U61-2GM	LF05-47U61-2GM
ITK LINEA F 52U 2-frame rack 600×600-1000 mm	52U	800-1200	600-1000	LF35-52U61-2GM	LF05-52U61-2GM

* custom items

Components and accessories to LINEA F open racks

Type	Name	Height, U	Color	Article
	19" sliding shelf 400 mm deep	1U	RAL 9005	SS05-400PI
			RAL 7035	SS35-400PI
	Cable organizer 19" 1U 4 rings	1U	RAL 9005	C005-1M4RM
			RAL 7035	C035-1M4RM
	19" fan module 1U 4 fans	1U	RAL 9005	FM05-1U4TS
	Fixed shelf 600 mm deep	1U	RAL 9005	FS05-600PI
			RAL 7035	FS55-600PI
	Roller with a brake	-	black	ITK-HP-15
	Metal cable ring 70x44 mm	-	RAL 9005	CR05-7044
			RAL 7035	CR35-7044
	Vertical cable organizer with depth 150 mm	42U	RAL 9005	C005-15042
			RAL 7035	C035-15042

The full list of ITK® accessories and components for 19" cabinets can be found on page 45

Additional components and solutions for ITK cabinets



In order to build SCS from category 5E to 6A with operating frequency up to 500 MHz we recommend to use **ITK copper components and patch panels**, that are perfect for installation in ITK® 19" cabinets and racks and ensure maximum compatibility with each other

[Learn more on page 126](#)



In order to organize state of the art optical switch systems, we recommend to install 19" optical crosses and optical components into ITK cabinets and racks. **ITK optical crosses** are the best solution for such task.

[Learn more on page 161](#)



Entry and electric power distribution on active equipment installed inside of ITK cabinets is executed using **socket boards and PDU ITK**

[Learn more on page 183](#)

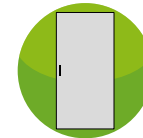


In order to ensure good cabling in 19" network and server cabinets, reliable fixation of cable harnesses and to protect cables from potential crushing, we recommend to use **ITK cable ties and sticky tapes**

[Learn more on page 115](#)

LINEA O outdoors climate cases

ITK® series of outdoor cabinets is great for allocation of active and passive telecommunication equipment, electrical and measuring instrumentation, uninterrupted power supply units and batteries on open, remote and lightly regulated venues outside of buildings, subject to adverse environment factors. In such conditions LINEA O cabinets excel at maintaining temperature mode, required for the installed equipment and its proper operation, as well as at protection against unauthorized access to equipment.



Specifications

	On-floor		Wall-hanging
	720×860	720×1060	660×600
Construction type	prefabricated with double walls		
Form factor	19 inches (GOST 28601.1-90 and GOST 28601.2-90)		
Support frame material	sheet steel 2.0 mm		
Material of internal walls	sheet steel 1.0 mm		
Static load, kg	1000		120
Insulation	mineral wool, Alufom NPE S5 (roof and base)		mineral wool
Microclimate maintenance system	yes		yes
Dimensions			
Height, mm	1300, 1700, 2100		550, 683, 816
Height (U)	24U, 33U, 42U		9U, 12U, 15U
Usable height (U)	21U, 30U, 39U		6U, 9U, 12U
Width, mm	720	720	660
Depth, mm	860	1060	600
Usable depth, mm	600	800	450
Configuration and properties of doors			
Front door	metal	metal	metal
Rear door	metal	metal	none
Material	sheet steel 2.0 mm		
Type of door way sealing	rubber 1404		
Type of lock	Warded dead three-points lock with pull rods (3 latching sides)		Warded dead three-points lock
Opening angle, degree	120°		

	On-floor		Wall-hanging
	720×860	720×1060	660×600
19" mounting profiles			
Quantity	4 pcs.		2 pcs.
Profile form	G-shaped		
Material	galvanized sheet steel 2.0 mm		
Depth adjustment step	25 mm		
Roof			
Construction	removable with drainage slope		–
Material	sheet steel 2.0 mm		–
Option to install lifting bolts	yes		–
Base			
Material	sheet steel 2.0 mm		
Quantity of cable entries	12		8
Type of cable entries	PG 21 (7 pcs.), PG 29 (3 pcs.), PG 13.5 (2 pcs.)		PG 21
Cap	yes		none
Cap height	120 mm		–
Cap material	sheet steel 2.0 mm		–
Power distribution panel (PDP)			
Material	sheet steel 1.0 mm		
Height (U)	3U		
Configuration			
Thermostat	NO (1 pc.), NC (1 pc.)		
Socket DIN 16A	1 pc.		
Circuit breakers	1P 16A (1 pc.), 1P 6A (2 pcs.)		
Neutral bus	1 pc.		
Other			
Standard compliance	IEC62208, IEC60950, TR CU 020/2011, GOST 28601.1-90 and 28601.2-90, GOST 14254		
Operation conditions according to GOST 15150	NF 1.1 (outdoors at ambient temperature from -50 to +60°C and relative humidity up to 100 % at 25°C)		
Ingress protection level according to GOST 14254	IP55		
Physical impact protection level according to GOST IEC 62262	IK10		
Door open sensor type	Limit switch		
Quantity of sensors	2		1
Heater	convection 400 W		convection 150 W
Number of fans	4		1
Cooling capacity	640 m³/hr		160 m³/hr
Color	RAL7035 (grey)		
Cover type	PPP shagreen		
Warranty	5 years		
Service life	25 years		
Packaging	corrugated box on a tray		corrugated box

Construction features



Static load of on-floor cabinets – 1000 kg



Degree of protection IP55



Climatic version - NF 1



G-shaped form of mounting profiles



Protection of electromagnetic fields



Resistant to harsh climatic conditions and UV radiation



Custom outdoor climate cabinets are developed and manufactured at customer's technical specification



Vandal-proof construction, access to fastening of outer elements is possible only from the inside



Basic configuration includes fan modules and a heater for cooling and heating



Cabinet is delivered assembled



Compliance with Russian and international standards

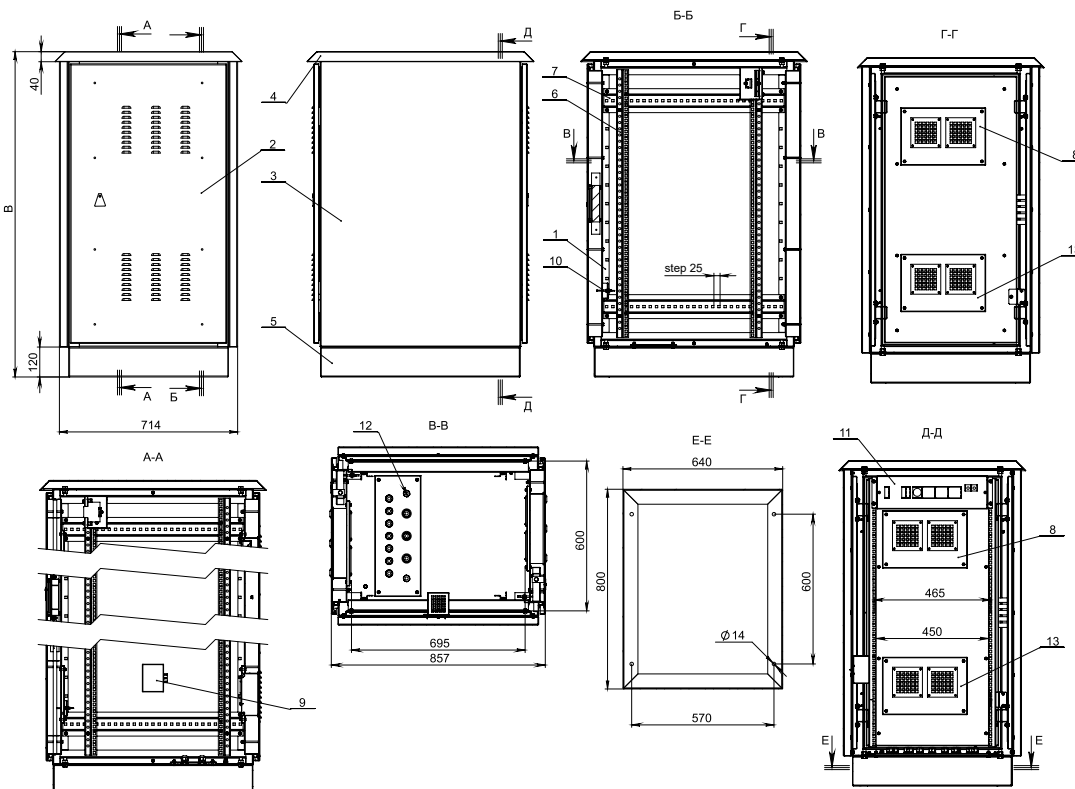


5 Year Warranty



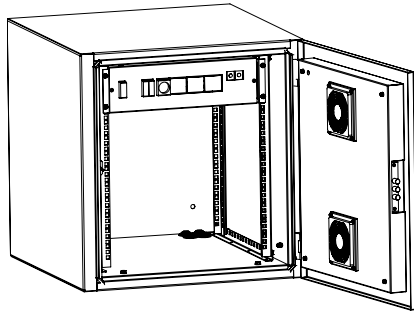
Service life – 25 years

Dimensional drawing of an on-floor cabinet

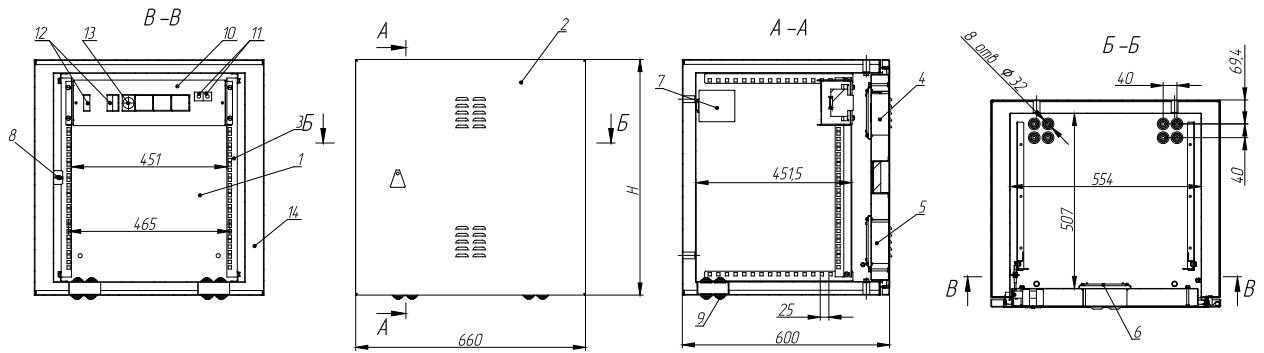


- 1. Frame
- 2. Door
- 3. Side panel
- 4. Roof
- 5. Cap
- 6. Racks
- 7. Rails
- 8. Fan block
- 9. Heating fan
- 10. Door opening sensor
- 11. Power distribution panel (PDP)
- 12. Cable entries
- 13. Dust filter

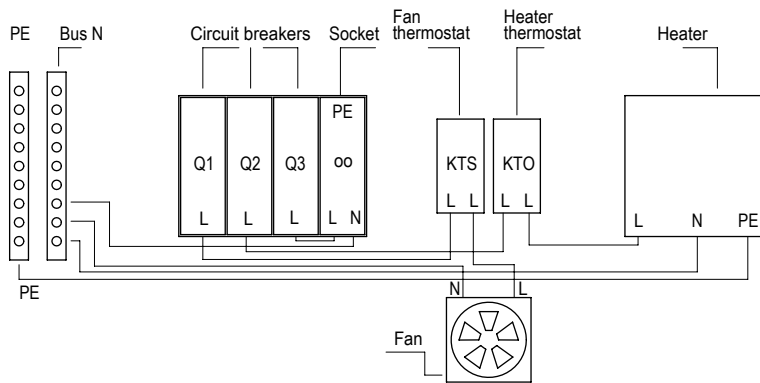
Dimensional drawing of wall-hanging cabinet



- 1. Enclosure
- 2. Door
- 3. Racks
- 4. Module with a fan
- 5. Module without a fan
- 6. Filtering element
- 7. Heating fan
- 8. Door opening sensor
- 9. Cable entries
- 10. Power distribution panel (PDP)
- 11. Thermostats
- 12. Circuit breakers
- 13. Socket
- 14. Insulation



Electric circuit for climate equipment connection



On-floor LINEA O cabinets

Lifting bolts can be installed on a roof for craning

The doors are fitted with fans and dust-proof filters, ensuring air circulation and IP55 protection degree

Cabinets in basic configuration are fitted with electric distribution panel, allowing to control cabinet microclimate and providing current protection

Dual walls and mineral wool as an insulation ensure high resiliency and protection against ambient temperature drops

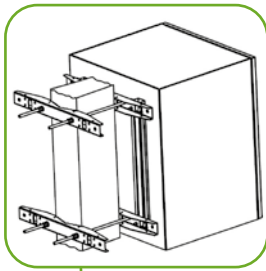
If necessary, the cabinet can be fitted with a conditioner and free cooling system (custom)

The cabinet base has a removable hatch and 12 cable entries, embedded with PG type cable glands for cable inlet.

120 mm high cap in the cabinet base allows to hide the excessive cable length

Pre-installed heater in basic configuration

Wall-hanging LINEA O cabinets



Cabinet construction and holes in the rear wall allow to hang the cabinet on a wall or a support/column. Mounting on a support requires a bracket **L035-KRST-6340**



Roof construction with a visor provides outlet of rain and melt water from the door way and juncture between a door and enclosure



Cabinets in basic configuration are fitted with electric distribution panel, allowing to control cabinet microclimate and providing current protection



The doors are fitted with fans and dust-proof filters, ensuring air circulation and IP55 protection degree



The cable is inserted through a base via PG type cable glands, providing IP55 protection



Dual walls and mineral wool as an insulation ensure high resiliency and protection against ambient temperature drops



A heater in basic configuration helps prevent condensation and air heating in a cabinet

Standard configuration of server cabinets LINEA S

Item No.	Name	Quantity	
		On-floor	Wall-hanging
1	Cabinet enclosure	1 pc.	1 pc.
2	Cap	1 pc.	—
3	Power distribution panel 3U	1 pc.	1 pc.
4	Heater	1 pc.	1 pc.
5	19" mounting rack	4 pcs.	2 pcs.
6	Fan block	4 pcs.	1 pc.
7	Thermostat	2 pcs.	2 pcs.
8	Dust-proof filter	8 pcs.	2 pcs.
9	Automatic switch 1P 16A	1 pc.	1 pc.
10	Automatic switch 1P 6A	2 pcs.	2 pcs.
11	16A socket	1 pc.	1 pc.
12	Door opening sensor	2 pcs.	1 pc.
13	Key to a lock	4 pcs.	4 pcs.
14	PG cable entries	12 pcs.	16 pcs.
15	Data sheet	1 copy	1 copy

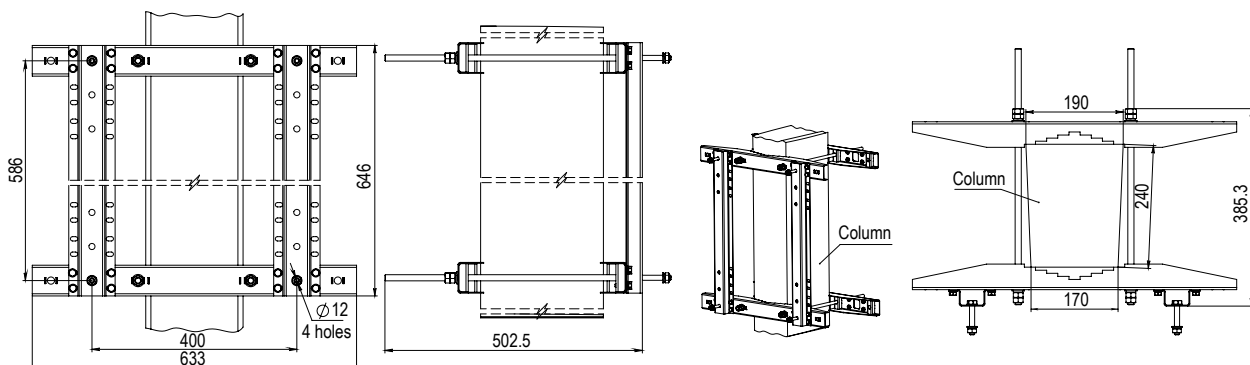
Bracket for cabinet hanging

LINEA O wall hanging cabinets are hung in two ways: on a wall using M10 anchor bolts or on a column or support. Hanging a cabinet on a support requires a versatile column bracket, compatible with LINEA O wall hanging cabinets with heights 9U, 12U and 15U. The bracket can be used to hang the cabinets on square and round supports.

A standard configuration of ITK outdoor wall-hanging cabinets does not include brackets, so they must be ordered separately!

Specifications

	Column bracket
Construction type	pre-fabricated
Material	sheet steel 2.0 mm
Dimensions (H×W), mm	646×633 mm
Hole diameter, mm	12 mm
Fixing to a column	stud M10 (4 pcs.)
Operation conditions according to GOST 15150	NF 1 (outdoors at ambient temperature from -50 to +60 °C and relative humidity up to 100 % at 25 °C)
Color	RAL7035 (grey)
Cover type	Outdoors PPP
Warranty	3 years
Service life	25 years



Product range of cabinets

Name	Height (U)	Dimensions (W×D), mm	Type of front door	Type of rear door	Protection degree	Gross weight, kg	Article
Wall-hanging							
Outdoors cabinet 19" 9U 650x600 mm, grey	9U	650×600	Metal	Wall	IP55	67	L035-09U66-MM55*
Outdoors cabinet 19" 12U 650x600 mm, grey	12U	650×600	Metal	Wall	IP55	76	L035-12U66-MM55*
Outdoors cabinet 19" 15U 650x600 mm, grey	15U	650×600	Metal	Wall	IP55	85	L035-15U66-MM55*
On-floor							
Outdoors cabinet 19" 24U 720x860 mm, grey	24U	720×860	Metal	Metal	IP55	205	L035-24U78-MM55*
Outdoors cabinet 19" 24U 720x1060 mm, grey	24U	720×1060	Metal	Metal	IP55	217	L035-24U71-MM55*
Outdoors cabinet 19" 33U 720x860 mm, grey	33U	720×860	Metal	Metal	IP55	244	L035-33U78-MM55*
Outdoors cabinet 19" 33U 720x1060 mm, grey	33U	720×1060	Metal	Metal	IP55	258	L035-33U71-MM55*
Outdoors cabinet 19" 42U 720x860 mm, grey	42U	720×860	Metal	Metal	IP55	283	L035-42U78-MM55*
Outdoors cabinet 19" 42U 720x1060 mm, grey	42U	720×1060	Metal	Metal	IP55	299.5	L035-42U71-MM55*

Hanging bracket

Name	Height (U)	Dimensions (H×W×D), mm	Fixture	Material	Protection degree	Gross weight, kg	Article
Column bracket for outdoors cabinets, grey	9U, 12U, 15U	646×633×385	Stud M10	Steel 2 mm	IP55	12.1	L035-KRST-6340*

* – custom items



Cabinets can be selected
in a configurator
at a website www.iek.group

Components and accessories

In order to ensure the best performance of ITK cabinets and racks, for mounting and operation it is recommended to use components, accessories and gear manufactured by ITK. ITK components and accessories were developed and produced specially for application with these cabinets, allowing to perform such tasks as convenient allocation of equipment and its further maintenance, ensuring additional cooling, well-thought cabling, feedthrough of cable harnesses and lines to equipment and fixation.

All ITK® accessories are made of high quality materials on state of the art production plant. They are convenient to mount and operate, they are perfectly compatible with cabinets and racks of any manufacturers and have an eye-appealing visual look.



Construction

Accessories, installed on 19" vertical mounting profiles, are manufactured according to GOST 28601.1 and GOST 28601.2 and in climate version NF in allocation category 4 according to GOST 15150 (operation in closed premises at temperature from +5 °C to +45 °C and relative humidity of ambient air up to 80 % at 25 °C).

Components and accessories for ITK® cabinets are manufactured on proprietary production plant out of cold-rolled steel sheet from 0.8 mm to 1.5 mm thick depending on designation. Accessories are made using metal saw cutters, forming punches, welding. After processing and bonderization, the surface of the finished product is covered with powdered paint of two main color types: grey RAL 7035 and black RAL 9005 according to two main colors of the cabinets and racks.

Ceiling fan panels are fitted with: fan blocks with 120x120 mm bearing, LED switch, IEC320 C14 socket, thermostat.

Construction of lighting sheets, in addition to metal base, includes an LED fixture of DBO series. Construction of brush entries includes bristle made of PBT polyester. Construction of power distribution panels includes S type 17.5 mm DIN rail for 22 modules.

Construction features



Wide range of types and versions



Modern eye-appealing design and clever construction



Convenient to mount and operate



Delivered in high quality compact packaging



Compliance with Russian and international standards



Ensure efficient utilization of the cabinet mounting space



Two color versions: grey and black



Always available in the warehouse



1 year warranty for all accessories



Service life is at least 5 years

Cabinets and Accessories Compatibility Table



Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf	Guiding corners	
h = U	W×D		100 kg	200 kg	40 kg	280 mm	350 mm	550 mm	120 kg
LINEA N cabinets (grey RAL7035)									
600×600									
18U	600×600	LN35-18U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
24U	600×600	LN35-24U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
28U	600×600	LN35-28U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
33U	600×600	LN35-33U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
38U	600×600	LN35-38U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
42U	600×600	LN35-42U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
47U	600×600	LN35-47U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400
600×800									
18U	600×800	LN35-18U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
24U	600×800	LN35-24U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
28U	600×800	LN35-28U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
33U	600×800	LN35-33U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
38U	600×800	LN35-38U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
42U	600×800	LN35-42U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
47U	600×800	LN35-47U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
600×1000									
18U	600×1000	LN35-18U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
24U	600×1000	LN35-24U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
28U	600×1000	LN35-28U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
33U	600×1000	LN35-33U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
38U	600×1000	LN35-38U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
42U	600×1000	LN35-42U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
47U	600×1000	LN35-47U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800
800×800									
18U	800×800	LN35-18U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
24U	800×800	LN35-24U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
28U	800×800	LN35-28U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
33U	800×800	LN35-33U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
38U	800×800	LN35-38U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
42U	800×800	LN35-42U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
47U	800×800	LN35-47U88-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600
LINEA N cabinets (black RAL9005)									
600×600									
18U	600×600	LN05-18U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
24U	600×600	LN05-24U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
28U	600×600	LN05-28U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
33U	600×600	LN05-33U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
38U	600×600	LN05-38U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
42U	600×600	LN05-42U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
47U	600×600	LN05-47U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400
600×800									
18U	600×800	LN05-18U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
24U	600×800	LN05-24U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
28U	600×800	LN05-28U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600



Fan block, C14 power

Ceiling fan panel without a thermostat

Ceiling fan panel with a thermostat

Brush entry

Roller with a brake (1 pc.)

Adjustable support

Vertical cable organizer

1 fan

2 fans

3 fans

2 fans

3 fans

390×115 mm

75×12 mm

150×12 mm

	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07533	C035-15033
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07533	C035-15033
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07542	C035-15042
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07542	C035-15042
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07533	C035-15033
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07533	C035-15033
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07542	C035-15042
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07542	C035-15042
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80		
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07533	C035-15033
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07533	C035-15033
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07542	C035-15042
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M	ITK-HP-25	LF-80	C035-07542	C035-15042
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80		
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80		
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80		
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80		
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80		
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80		



Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf			Guiding corners
h = U	W×D		100 kg	200 kg	40 kg	280 mm	350 mm	550 mm	120 kg	
33U	600×800	LN05-33U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
38U	600×800	LN05-38U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
42U	600×800	LN05-42U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
47U	600×800	LN05-47U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
600×1000										
18U	600×1000	LN05-18U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
24U	600×1000	LN05-24U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
28U	600×1000	LN05-28U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
33U	600×1000	LN05-33U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
38U	600×1000	LN05-38U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
42U	600×1000	LN05-42U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
47U	600×1000	LN05-47U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800	
800×800										
18U	800×800	LN05-18U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
24U	800×800	LN05-24U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
28U	800×800	LN05-28U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
33U	800×800	LN05-33U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
38U	800×800	LN05-38U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
42U	800×800	LN05-42U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
47U	800×800	LN05-47U88-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600	
LINEA E cabinets (grey RAL7035)										
600×600										
18U	600×600	LE35-18U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400	
24U	600×600	LE35-24U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400	
33U	600×600	LE35-33U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400	
42U	600×600	LE35-42U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400	
47U	600×600	LE35-47U66-XX	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P	SR35-400	
600×800										
18U	600×800	LE35-18U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600	
24U	600×800	LE35-24U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600	
33U	600×800	LE35-33U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600	
42U	600×800	LE35-42U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600	
47U	600×800	LE35-47U68-XX	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P	SR35-600	
600×1000										
18U	600×1000	LE35-18U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800	
24U	600×1000	LE35-24U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800	
33U	600×1000	LE35-33U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800	
42U	600×1000	LE35-42U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800	
47U	600×1000	LE35-47U61-XX	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350M	RS35-550M	SR35-800	
LINEA E cabinets (black RAL9005)										
600×600										
18U	600×600	LE05-18U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400	
24U	600×600	LE05-24U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400	
33U	600×600	LE05-33U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400	
42U	600×600	LE05-42U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400	
47U	600×600	LE05-47U66-XX	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	RS05-550P	SR05-400	

Note: XX – version type of the front and rear doors of LINEA N and E cabinets according to designation



Fan block, C14 power	Ceiling fan panel without a thermostat			Ceiling fan panel with a thermostat		Brush entry	Roller with a brake (1 pc.)	Adjustable support	Vertical cable organizer	
	1 fan	2 fans	3 fans	2 fans	3 fans	390×115 mm			75×12 mm	150×12 mm
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M	ITK-HP-25	LF-80	C005-07542	C005-15042	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80			
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80			
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07533	C035-15033	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07542	C035-15042	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07542	C035-15042	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80			
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80			
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07533	C035-15033	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07542	C035-15042	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07542	C035-15042	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80			
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80			
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07533	C035-15033	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07542	C035-15042	
	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-390-115M		LF-80	C035-07542	C035-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M		LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M		LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M		LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M		LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M		LF-80	C005-07542	C005-15042	



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Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf	Guiding corners	
h = U	W×D		100 kg	200 kg	40 kg	280 mm	350 mm	550 mm	120 kg
600×800									
18U	600×800	LE05-18U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
24U	600×800	LE05-24U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
33U	600×800	LE05-33U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
42U	600×800	LE05-42U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
47U	600×800	LE05-47U68-XX	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P	RS05-550P	SR05-600
600×1000									
24U	600×1000	LE05-24U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800
33U	600×1000	LE05-33U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800
42U	600×1000	LE05-42U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800
47U	600×1000	LE05-47U61-XX	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P	SR05-800
LINEA W wall-mounted cabinets (grey RAL7035)									
600×450									
6U	600×450	LWR3-06U64-YY				RS35-280M	RS35-350P		
9U	600×450	LWR3-09U64-YY				RS35-280M	RS35-350P		
12U	600×450	LWR3-12U64-YY				RS35-280M	RS35-350P		
15U	600×450	LWR3-15U64-YY				RS35-280M	RS35-350P		
18U	600×450	LWR3-18U64-YY				RS35-280M	RS35-350P		
600×600									
6U	600×600	LWR3-06U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P		SR35-400
9U	600×600	LWR3-09U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P		SR35-400
12U	600×600	LWR3-12U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P		SR35-400
15U	600×600	LWR3-15U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P		SR35-400
18U	600×600	LWR3-18U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P		SR35-400
LINEA W wall-mounted cabinets (black RAL9005)									
600×450									
6U	600×450	LWR5-06U64-YY				RS05-280M	RS05-350P		
9U	600×450	LWR5-09U64-YY				RS05-280M	RS05-350P		
12U	600×450	LWR5-12U64-YY				RS05-280M	RS05-350P		
15U	600×450	LWR5-15U64-YY				RS05-280M	RS05-350P		
18U	600×450	LWR5-15U64-YY				RS05-280M	RS05-350P		
600×600									
6U	600×600	LWR5-06U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P		SR05-400
9U	600×600	LWR5-09U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P		SR05-400
12U	600×600	LWR5-12U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P		SR05-400
15U	600×600	LWR5-15U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P		SR05-400
18U	600×600	LWR5-15U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P		SR05-400

Note: XX – version type of the front and rear doors of LINEA N and E cabinets according to designation
 YY – version type of the front door of LINEA W and WE cabinets according to designation



Fan block, C14 power		Ceiling fan panel without a thermostat			Ceiling fan panel with a thermostat		Brush entry		Adjustable support		Vertical cable organizer	
1 fan	2 fans	3 fans	2 fans	3 fans	390×115 mm	180×55 mm			75×12 mm	150×12 mm		
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80			
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80	C005-07533	C005-15033	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80	C005-07542	C005-15042	
	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-390-115M				LF-80	C005-07542	C005-15042	
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M		BE35-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					
	FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M		BE05-180-55M					



Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf	Guiding corners
h = U	W×D		100 kg	200 kg	40 kg	280 mm	350 mm 550 mm	120 kg
LINEA WE wall-mounted cabinets (grey RAL7035)								
550×350								
6U	550×350	LWE3-06U53-YY				RS35-280M		
9U	550×350	LWE3-09U53-YY				RS35-280M		
12U	550×350	LWE3-12U53-YY				RS35-280M		
15U	550×350	LWE3-15U53-YY				RS35-280M		
600×450								
6U	600×450	LWE3-06U64-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	SR35-400
9U	600×450	LWE3-09U64-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	SR35-400
12U	600×450	LWE3-12U64-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	SR35-400
15U	600×450	LWE3-15U64-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	SR35-400
600×600								
6U	600×600	LWE3-06U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P RS35-550P	SR35-400
9U	600×600	LWE3-09U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P RS35-550P	SR35-400
12U	600×600	LWE3-12U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P RS35-550P	SR35-400
15U	600×600	LWE3-15U66-YY	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P RS35-550P	SR35-400
600×650								
6U	600×650	LWE3-06U67-YY	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P RS35-550P	SR35-600
9U	600×650	LWE3-09U67-YY	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P RS35-550P	SR35-600
12U	600×650	LWE3-12U67-YY	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P RS35-550P	SR35-600
15U	600×650	LWE3-15U67-YY	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P RS35-550P	SR35-600
18U	600×650	LWE3-18U67-YY	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P RS35-550P	SR35-600
LINEA WE wall-mounted cabinets (black RAL9005)								
550×350								
6U	550×350	LWE5-06U53-YY				RS05-280M		
9U	550×350	LWE5-09U53-YY				RS05-280M		
12U	550×350	LWE5-12U53-YY				RS05-280M		
15U	550×350	LWE5-15U53-YY				RS05-280M		
600×450								
6U	600×450	LWE5-06U64-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	SR05-400
9U	600×450	LWE5-09U64-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	
12U	600×450	LWE5-12U64-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	
15U	600×450	LWE5-15U64-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	
600×600								
6U	600×600	LWE5-06U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P RS05-550P	SR05-400
9U	600×600	LWE5-09U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P RS05-550P	SR05-400
12U	600×600	LWE5-12U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P RS05-550P	SR05-400
15U	600×600	LWE5-15U66-YY	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P RS05-550P	SR05-400
600×650								
6U	600×650	LWE5-06U67-YY	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P RS05-550P	SR05-600
9U	600×650	LWE5-09U67-YY	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P RS05-550P	SR05-600
12U	600×650	LWE5-12U67-YY	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P RS05-550P	SR05-600
15U	600×650	LWE5-15U67-YY	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P RS05-550P	SR05-600
18U	600×650	LWE5-18U67-YY	FS05-600PI	FS05-600MP	SS05-600PI	RS05-280M	RS05-350P RS05-550P	SR05-600

Note: YY – version type of the front door of LINEA W and WE cabinets according to designation



Fan block,
C14 power

Ceiling fan panel
without a thermostat

Ceiling fan panel
with a thermostat

Brush entry

Adjustable
support

Vertical cable
organizer

1 fan

2 fans

3 fans

2 fans

3 fans

390×115 mm

180×55 mm

75×12 mm

150×12 mm

FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M

FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M

FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M

FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M
FM35-11ME	FM35-21M	FM35-31M	FM35-22M	FM35-32M	BE35-180-55M

FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M

FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M

FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M

FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M
FM05-11ME	FM05-21M	FM05-31M	FM05-22M	FM05-32M	BE05-180-55M



Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf	
h = U	WxD		100 kg	200 kg	40 kg	280 mm	350 mm	550 mm
LINEA S cabinets (grey RAL7035)								
600x1000								
24U	600x1000	LS35-24U61-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
24U	600x1000	LS35-24U61-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
33U	600x1000	LS35-33U61-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
33U	600x1000	LS35-33U61-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
42U	600x1000	LS35-42U61-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
42U	600x1000	LS35-42U61-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
47U	600x1000	LS35-47U61-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
47U	600x1000	LS35-47U61-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
800x1000								
24U	800x1000	LS35-24U81-P	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
24U	800x1000	LS35-24U81-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
24U	800x1000	LS35-24U81-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
33U	800x1000	LS35-33U81-P	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
33U	800x1000	LS35-33U81-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
33U	800x1000	LS35-33U81-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
42U	800x1000	LS35-42U81-P	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
42U	800x1000	LS35-42U81-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
42U	800x1000	LS35-42U81-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
47U	800x1000	LS35-47U81-P	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
47U	800x1000	LS35-47U81-PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
47U	800x1000	LS35-47U81-2PP	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
600x1200								
42U	600x1200	LS35-42U62-PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
42U	600x1200	LS35-42U62-2PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
47U	600x1200	LS35-47U62-PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
47U	600x1200	LS35-47U62-2PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
800x1200								
42U	800x1200	LS35-42U82-PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
42U	800x1200	LS35-42U82-2PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
47U	800x1200	LS35-47U82-PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
47U	800x1200	LS35-47U82-2PP	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
LINEA S cabinets (black RAL9005)								
600x1000								
24U	600x1000	LS05-24U61-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
24U	600x1000	LS05-24U61-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
33U	600x1000	LS05-33U61-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
33U	600x1000	LS05-33U61-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
42U	600x1000	LS05-42U61-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
42U	600x1000	LS05-42U61-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
47U	600x1000	LS05-47U61-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
47U	600x1000	LS05-47U61-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
800x1000								
24U	800x1000	LS05-24U81-P	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
24U	800x1000	LS05-24U81-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
24U	800x1000	LS05-24U81-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P



Guiding corners

Ceiling fan panel with a thermostat

Cap

Rollers with a brake

Vertical cable organizer

120 kg

4 fans

Height – 100 mm

Height – 200 mm

75×12 mm

150×12 mm

SR35-800	FM35-42	BS35-1H61	BS35-2H61		
SR35-800	FM35-42	BS35-1H61	BS35-2H61		
SR35-800	FM35-42	BS35-1H61	BS35-2H61	C035-07533	C035-15033
SR35-800	FM35-42	BS35-1H61	BS35-2H61	C035-07533	C035-15033
SR35-800	FM35-42	BS35-1H61	BS35-2H61	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H61	BS35-2H61	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H61	BS35-2H61	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H61	BS35-2H61	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H81	BS35-2H81		
SR35-800	FM35-42	BS35-1H81	BS35-2H81		
SR35-800	FM35-42	BS35-1H81	BS35-2H81		
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07533	C035-15033
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07533	C035-15033
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07533	C035-15033
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07542	C035-15042
SR35-800	FM35-42	BS35-1H81	BS35-2H81	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H62	BS35-2H62	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H62	BS35-2H62	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H62	BS35-2H62	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H62	BS35-2H62	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H82	BS35-2H82	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H82	BS35-2H82	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H82	BS35-2H82	C035-07542	C035-15042
SR35-1000	FM35-42	BS35-1H82	BS35-2H82	C035-07542	C035-15042
SR05-800	FM05-42	BS05-1H61	BS05-2H61		
SR05-800	FM05-42	BS05-1H61	BS05-2H61		
SR05-800	FM05-42	BS05-1H61	BS05-2H61	C005-07533	C005-15033
SR05-800	FM05-42	BS05-1H61	BS05-2H61	C005-07533	C005-15033
SR05-800	FM05-42	BS05-1H61	BS05-2H61	C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H61	BS05-2H61	C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H61	BS05-2H61	C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H61	BS05-2H61	C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		
SR05-800	FM05-42	BS05-1H81	BS05-2H81		
SR05-800	FM05-42	BS05-1H81	BS05-2H81		



Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf	
h = U	W×D		100 kg	200 kg	40 kg	280 mm	350 mm	550 mm
33U	800×1000	LS05-33U81-P	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
33U	800×1000	LS05-33U81-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
33U	800×1000	LS05-33U81-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
42U	800×1000	LS05-42U81-P	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
42U	800×1000	LS05-42U81-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
42U	800×1000	LS05-42U81-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
47U	800×1000	LS05-47U81-P	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
47U	800×1000	LS05-47U81-PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
47U	800×1000	LS05-47U81-2PP	FS05-800PI	FS05-800MP	SS05-800PI	RS05-280M	RS05-350P	RS05-550P
600×1200								
42U	600×1200	LS05-42U62-PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
42U	600×1200	LS05-42U62-2PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
47U	600×1200	LS05-47U62-PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
47U	600×1200	LS05-47U62-2PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
800×1200								
42U	800×1200	LS05-42U82-PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
42U	800×1200	LS05-42U82-2PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
47U	800×1200	LS05-47U82-PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
47U	800×1200	LS05-47U82-2PP	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
Open racks LINEA F (grey RAL7035)								
Single-frame on rollers								
32U	600×600	LF35-32U66-1R				RS35-280M	RS35-350P	RS35-550P
37U	600×600	LF35-37U66-1R				RS35-280M	RS35-350P	RS35-550P
42U	600×600	LF35-42U66-1R				RS35-280M	RS35-350P	RS35-550P
47U	600×600	LF35-47U66-1R				RS35-280M	RS35-350P	RS35-550P
Two-frame on rollers								
32U	600×600	LF35-32U66-2R	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	
37U	600×600	LF35-37U66-2R	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	
42U	600×600	LF35-42U66-2R	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	
47U	600×600	LF35-47U66-2R	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	
Two-frame with depth adjustable from 600 to 1000 mm								
24U	600×800	LF35-24U68-2R	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
33U	600×800	LF35-33U68-2R	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
37U	600×800	LF35-37U68-2R	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
42U	600×800	LF35-42U68-2R	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
45U	600×800	LF35-45U68-2R	FS35-1000PI	FS35-1000MP	SS35-1000PI	RS35-280M	RS35-350P	RS35-550P
Open racks LINEA F (black RAL9005)								
Single-frame on rollers								
32U	600×600	LF05-32U66-1R				RS05-280M	RS05-350P	RS05-550P
37U	600×600	LF05-37U66-1R				RS05-280M	RS05-350P	RS05-550P
42U	600×600	LF05-42U66-1R				RS05-280M	RS05-350P	RS05-550P
47U	600×600	LF05-47U66-1R				RS05-280M	RS05-350P	RS05-550P
Two-frame on rollers								
32U	600×600	LF05-32U66-2R	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	
37U	600×600	LF05-37U66-2R	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	
42U	600×600	LF05-42U66-2R	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	
47U	600×600	LF05-47U66-2R	FS05-400PI	FS05-400MP	SS05-400PI	RS05-280M	RS05-350P	




Guiding corners	Ceiling fan panel with a thermostat	Cap		Rollers with a brake	Vertical cable organizer	
120 kg	4 fans	Height – 100 mm	Height – 200 mm		75×12 mm	150×12 mm
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07533	C005-15033
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07533	C005-15033
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07533	C005-15033
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-800	FM05-42	BS05-1H81	BS05-2H81		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H62	BS05-2H62		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H62	BS05-2H62		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H62	BS05-2H62		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H62	BS05-2H62		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H82	BS05-2H82		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H82	BS05-2H82		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H82	BS05-2H82		C005-07542	C005-15042
SR05-1000	FM05-42	BS05-1H82	BS05-2H82		C005-07542	C005-15042
				ITK-HP-25	C035-07533	C035-15033
				ITK-HP-25	C035-07533	C035-15033
				ITK-HP-25	C035-07542	C035-15042
				ITK-HP-25	C035-07542	C035-15042
SR35-400				ITK-HP-25	C035-07533	C035-15033
SR35-400				ITK-HP-25	C035-07533	C035-15033
SR35-400				ITK-HP-25	C035-07542	C035-15042
SR35-400				ITK-HP-25	C035-07542	C035-15042
SR35-1000				ITK-HP-25		
SR35-1000				ITK-HP-25	C035-07533	C035-15033
SR35-1000				ITK-HP-25	C035-07533	C035-15033
SR35-1000				ITK-HP-25	C035-07542	C035-15042
SR35-1000				ITK-HP-25	C035-07542	C035-15042
				ITK-HP-25	C005-07533	C005-15033
				ITK-HP-25	C005-07533	C005-15033
				ITK-HP-25	C005-07542	C005-15042
				ITK-HP-25	C005-07542	C005-15042
SR05-400				ITK-HP-25	C005-07533	C005-15033
SR05-400				ITK-HP-25	C005-07533	C005-15033
SR05-400				ITK-HP-25	C005-07542	C005-15042
SR05-400				ITK-HP-25	C005-07542	C005-15042




Height (U)	Size, mm	Article	Fixed shelf	Fixed shelf (enhanced)	Movable shelf	1U console shelf	2U console shelf	
h = U	WxD		100 kg	200 kg	40 kg	280 mm	350 mm	550 mm
Two-frame with depth adjustable from 600 to 1000 mm								
24U	600×800	LF05-24U68-2R	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
33U	600×800	LF05-33U68-2R	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
37U	600×800	LF05-37U68-2R	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
42U	600×800	LF05-42U68-2R	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
45U	600×800	LF05-45U68-2R	FS05-1000PI	FS05-1000MP	SS05-1000PI	RS05-280M	RS05-350P	RS05-550P
Outdoor cabinets LINEA 0 (grey RAL7035)								
Wall-hanging								
9U	650×600	L035-09U66-M55	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P
12U	650×600	L035-12U66-M55	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P
15U	650×600	L035-15U66-M55	FS35-400PI	FS35-400MP	SS35-400PI	RS35-280M	RS35-350P	RS35-550P
On-floor								
24U	720×860	L035-24U78-MM55	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P
24U	720×1060	L035-24U71-MM55	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
33U	720×860	L035-33U78-MM55	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P
33U	720×1060	L035-33U71-MM55	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P
42U	720×860	L035-42U78-MM55	FS35-600PI	FS35-600MP	SS35-600PI	RS35-280M	RS35-350P	RS35-550P
42U	720×1060	L035-42U71-MM55	FS35-800PI	FS35-800MP	SS35-800PI	RS35-280M	RS35-350P	RS35-550P

General-purpose accessories, compatible with all 19" cabinets and racks




19" blanking plate (plug)

	Blanking plate 1U	Blanking plate 2U	Blanking plate 3U	Blanking plate 4U
RAL 7035 (grey)	FP35-01UM	FP35-02UM	FP35-03UM	FP35-04UM
RAL 9005 (black)	FP05-01UM	FP05-02UM	FP05-03UM	FP05-04UM



19" metal cable organizer


	4 rings 1U	5 rings 1U	5 rings 2U	6 rings 1U	6 rings 2U
RAL 7035 (grey)	C035-1M4RM	C035-1M5RM	C035-2M5RM	C035-1M6R	C035-2M6R
RAL 9005 (black)	C005-1M4RM	C005-1M5RM	C005-2M5RM	C005-1M6R	C005-2M6R



19" horizontal cable organizer with a cover

	metal 1U	metal 2U	plastic 1U	plastic 2U
RAL 7035 (grey)	C035-1MCM	C035-2MCM		
RAL 9005 (black)	C005-1MCM	C005-2MCM	C005-1PC	C005-2PC

Cable rings



	without a platform			with a platform		
	50×44 mm	70×44 mm	70×88 mm	50×44 mm	70×44 mm	70×88 mm
Grey color RAL 7035	CR35-5044	CR35-7044	CR35-7088	CR35-5044-PL	CR35-7044-PL	CR35-7088-PL
Black color RAL 9005	CR05-5044	CR05-7044	CR05-7088	CR05-5044-PL	CR05-7044-PL	CR05-7088-PL



Guiding corners

Ceiling fan panel with a thermostat

Cap

Rollers with a brake

Vertical cable organizer

120 kg

4 fans

Height – 100 mm

Height – 200 mm

75×12 mm

150×12 mm

SR05-1000

ITK-HP-25

SR05-1000

ITK-HP-25

C005-07533

C005-15033

SR05-1000

ITK-HP-25

C005-07533

C005-15033

SR05-1000

ITK-HP-25

C005-07542

C005-15042

SR05-1000

ITK-HP-25

C005-07542

C005-15042

SR35-400

SR35-400

SR35-400

SR35-600

SR35-800

SR35-600

C035-07533

SR35-800

C035-07533

SR35-600

C035-07542

SR35-800

C035-07542



19" fan module with digital thermostat

article

2 fans

FM05-1U2TS

4 fans

FM05-1U4TS



Analog thermostat (treg = 0...+60°C)

article

RAL 7035 (grey)

TS-A1



19" brush entry

1U

2U

RAL 7035 (grey)

BE35-01UM

BE35-02UM

RAL 9005 (black)

BE05-01UM

BE05-02UM



Grounding bus with 230 A load

article

12 connection slot

ER-12



19" lighting panel

article

RAL 7035 (grey)

LE35-1U1

RAL 9005 (black)

LE05-1U1



9" power distribution panel with DIN rail

article

RAL 7035 (grey)

EDP35-3U22M

RAL 9005 (black)

EDP05-3U22M



Grounding wires kit (9 pcs.)

article

0.5 m - 6 pcs.

ER12-6568

0.8 m - 3 pcs.



Kit of inserted screws/washer/nuts

article

M6×12 mm

ITK-HP-28

M6×15 mm

ITK-HP-15



SOLUTIONS FOR COLD AND HOT AISLES IN SERVER ROOMS AND DC

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Server cabinets ITK[®] by ZPAS for data centers

- Robust construction
- Multifunctionality
- Safety
- Efficiency



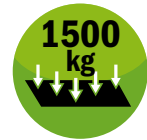
A new series of telecommunications cabinets ITK[®] by ZPAS is developed by IEK GROUP in collaboration with one of European leaders in passive telecommunications equipment production industry – ZPAS company.

The series of cabinets for data centers (DC) ITK[®] by ZPAS is designed based on innovative developments and adapted for the Russian market. Telecommunication cabinets ITK[®] by ZPAS are manufactured on IEK GROUP plant in Yasnogorsk (the Tula Region).

Server cabinets ITK® by ZPAS for data centers

NEW

ITK® by ZPAS cabinets have a pre-fabricated construction based on a fully symmetrical profile. Their frame is built based on closed profiles, perforated in two planes, which allows flexible placement of equipment and components, as well as convenience when joining cabinets in. We have made ITK® by ZPAS cabinets cross-functional and taken into account operation conditions in Russia, because ITK® produces ITK® by ZPAS cabinets in Russia and for Russia!



Model table

Width L, mm	Depth G, mm	Q-ty of doors	Color	Article				
600	1000	1	grey	ZP35-42U-0610-PP-R	ZP35-45U-0610-PP-R	ZP35-47U-0610-PP-R		
			black	ZP05-42U-0610-PP-R	ZP05-45U-0610-PP-R	ZP05-47U-0610-PP-R		
		2	grey	ZP35-42U-0610-P2P-R	ZP35-45U-0610-P2P-R	ZP35-47U-0610-P2P-R		
			black	ZP05-42U-0610-P2P-R	ZP05-45U-0610-P2P-R	ZP05-47U-0610-P2P-R		
		1200	1	Grey	ZP35-42U-0612-PP-R	ZP35-45U-0612-PP-R	ZP35-47U-0612-PP-R	
				black	ZP05-42U-0612-PP-R	ZP05-45U-0612-PP-R	ZP05-47U-0612-PP-R	
	2		grey	ZP35-42U-0612-P2P-R	ZP35-45U-0612-P2P-R	ZP35-47U-0612-P2P-R		
			black	ZP05-42U-0612-P2P-R	ZP05-45U-0612-P2P-R	ZP05-47U-0612-P2P-R		
	800		1000	1	grey	ZP35-42U-0810-PP-R	ZP35-45U-0810-PP-R	ZP35-47U-0810-PP-R
					black	ZP05-42U-0810-PP-R	ZP05-45U-0810-PP-R	ZP05-47U-0810-PP-R
		2		grey	ZP35-42U-0810-P2P-R	ZP35-45U-0810-P2P-R	ZP35-47U-0810-P2P-R	
				black	ZP05-42U-0810-P2P-R	ZP05-45U-0810-P2P-R	ZP05-47U-0810-P2P-R	
1200		1		Grey	ZP35-42U-0812-PP-R	ZP35-45U-0812-PP-R	ZP35-47U-0812-PP-R	
				black	ZP05-42U-0812-PP-R	ZP05-45U-0812-PP-R	ZP05-47U-0812-PP-R	
		2	grey	ZP35-42U-0812-P2P-R	ZP35-45U-0812-P2P-R	ZP35-47U-0812-P2P-R		
			black	ZP05-42U-0812-P2P-R	ZP05-45U-0812-P2P-R	ZP05-47U-0812-P2P-R		
		Usable cabinet height HU (U = 44.45 mm)			42U	45U	47U	
		Frame height H, mm			2000	2100	2200	

Specifications

ROBUST CONSTRUCTION

- Robust pre-fabricated frame made of steel closed profiles.
- Static load capacity:
1360 kg — for a cabinet, mounted on legs;
1500 kg — for a cabinet without legs, mounted right on the floor.

MULTIFUNCTIONALITY

- Smooth and convenient (with no tools) adjustment of 19" mounting profiles.
- Easy installation of equipment due to unit (U) mapping on profiles.
- Mounting width can be changed from 19 to 21 inches without any additional elements (in cabinets 800 mm wide).
- Door opening angle up to 270 degrees with an option to change door handing.
- Convenient access to equipment due to side panels, consisting of 2 sections.
- Partition panels between cabinets can be installed on any stage of operation.
- No tools are required to connect grounding cables with cabinet components.
- No tools are required to install a top panel of a cabinet.
- The frame contains holes to install accessories.

SAFETY

- Robust cabinet locking system:
5-points for single-leaf doors,
3-points for two-leaf doors.
- An option to use locks with access control.

EFFICIENCY

- Front and rear doors with optimal perforation level 80%.
- For the required inlet of cold air to equipment, total area of perforation zone is about 86% of the door square.
- Cold air inlet is optimized using components, allowing to divide cold and hot zones both within a single cabinet and as part of a module system consisting of a lot of cabinets.

ITK® BY ZPAS SYSTEM

ITK® by ZPAS server cabinets system is a new quality level for data center solutions. Scalability and multifunctionality of the system, as well as easy adaptation are achieved using additional equipment:

- components to build a cold aisle;
- elements to organize air streams within a cabinet;
- elements to organize cabling;
- elements to organize electric power.

DELIVERY SET

Standard configuration of a cabinet:

- pre-fabricated frame;
- perforated single-leaf front door;
- perforated single- or two-leaf rear door;
- top panel with perforation and breakout plugs;
- two pairs of mounting profiles at 19" distance;
- grounding wires for a door, top panel and mounting profiles;
- adjustable legs.

Additional fitting (ordered separately):

- side panels and other accessories;
- shelves, lighting, 19" blanking plates.

TECHNICAL INFORMATION

Material

Sheet steel.

Protection degree

IP 20 – according to EN 60529 standard (not applicable to brush entries).

Surface finish

Frame, side panels, doors, top panel: painted using powder paint of grey (RAL 7035) or black (RAL 9005) color.
Mounting profiles and other metal elements: protected by zincplating coat.

Construction features



Static load 1500 kg



Broad range of versions and dimensions



Quick assembly



Unique durable profile



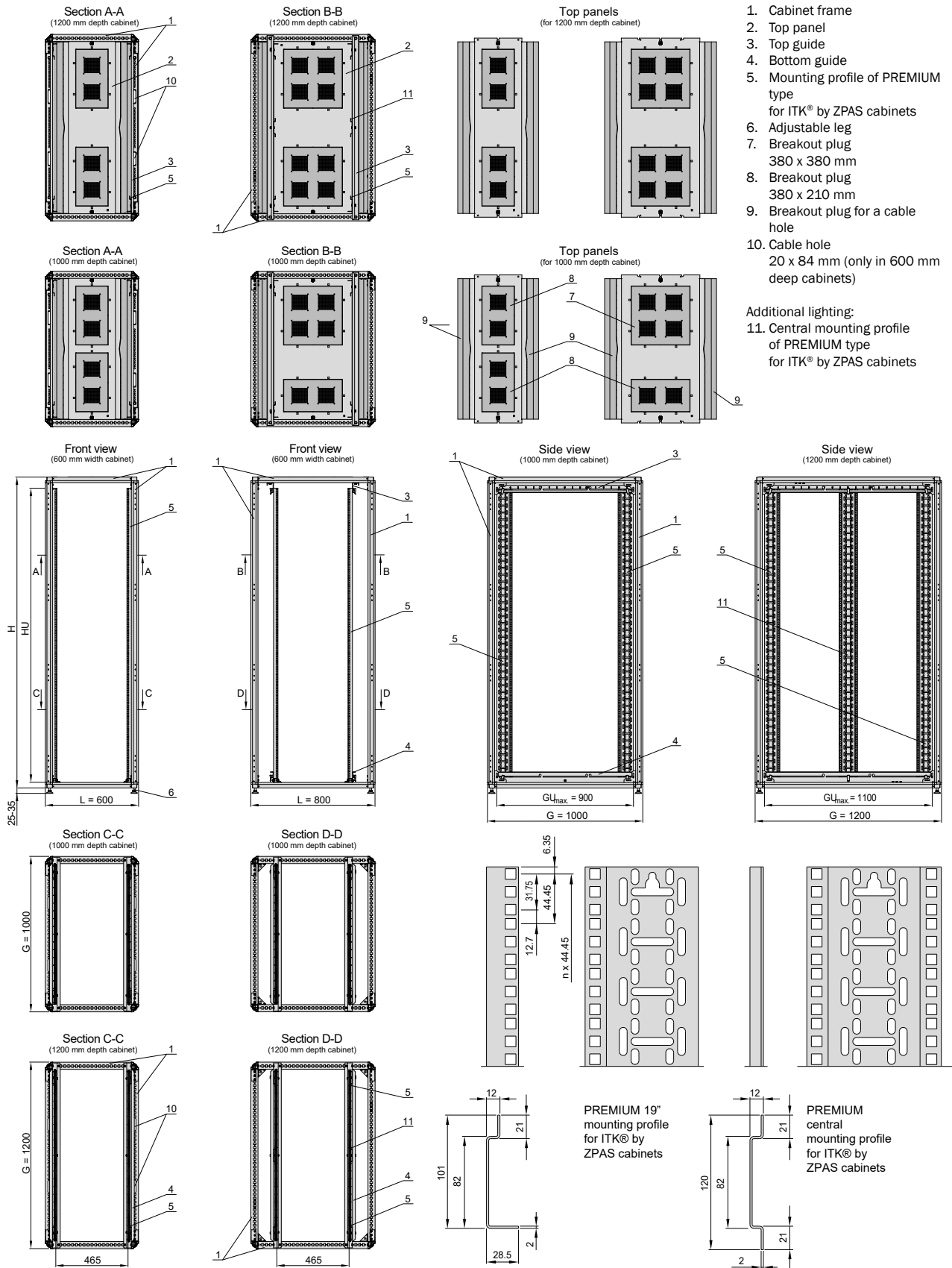
Designed in Europe



3 years warranty

Construction

Server racks ITK® by ZPAS for DC



Cabinets on a drawing are shown with no doors and side panels.

Side panels



Available in two versions, different in depth.

A type side panels (small):

- allow to open a door at an angle up to 270 degrees;
- increase total cabinet depth by 3 mm at each side.

B type side panels (deep):

- ensure the required mounting space in 600 mm deep cabinets for installation of socket boards between a side panel and a vertical mounting profile;
- increase total cabinet depth by 11 mm at each side.

Specifications

- Material sheet steel
- Construction type solid metal
- Coating powder painting
- Color RAL 7035 (grey)
RAL 9005 (black)

Configuration

- Two-section type side panel, consisting of top and bottom parts
- Fasteners
- Bottom part is fitted with two locks

For a cabinet		Panel type	Article,	
Height (U)	Depth (mm)		grey color RAL 7035	black color RAL 9005
42U	1000	A	ZP-SP35-42U-A-1000-R	ZP-SP05-42U-A-1000-R
42U	1000	B	ZP-SP35-42U-B-1000-R	ZP-SP05-42U-B-1000-R
42U	1200	A	ZP-SP35-42U-A-1200-R	ZP-SP05-42U-A-1200-R
42U	1200	B	ZP-SP35-42U-B-1200-R	ZP-SP05-42U-B-1200-R
45U	1000	A	ZP-SP35-45U-A-1000-R	ZP-SP05-45U-A-1000-R
45U	1000	B	ZP-SP35-45U-B-1000-R	ZP-SP05-45U-B-1000-R
45U	1200	A	ZP-SP35-45U-A-1200-R	ZP-SP05-45U-A-1200-R
45U	1200	B	ZP-SP35-45U-B-1200-R	ZP-SP05-45U-B-1200-R
47U	1000	A	ZP-SP35-47U-A-1000-R	ZP-SP05-47U-A-1000-R
47U	1000	B	ZP-SP35-47U-B-1000-R	ZP-SP05-47U-B-1000-R
47U	1200	A	ZP-SP35-47U-A-1200-R	ZP-SP05-47U-A-1200-R
47U	1200	B	ZP-SP35-47U-B-1200-R	ZP-SP05-47U-B-1200-R

Partition



Designed to be installed between cabinets, combined in a row.

Contains four cable holes 150 x 45 mm, closed by breakout plugs, and four clearances for cabinet junction board. Specially curved edges of the top and side panels of the partition simplify installation between frames of adjacent cabinets. Distance between cabinets, required to install the partition, is just 2 mm.

Partition comes in two options, different in height:

- partition of type **C – for cabinets on legs;**
- partition of type **D – for cabinets without legs;**

Boards for junction of cabinets should be ordered separately.

Specifications

- Material: sheet steel
- Construction type: solid metal
- Coating: powder painting
- Color: RAL7035 (grey)
RAL9005 (black)

Configuration

- Partition
- Fasteners

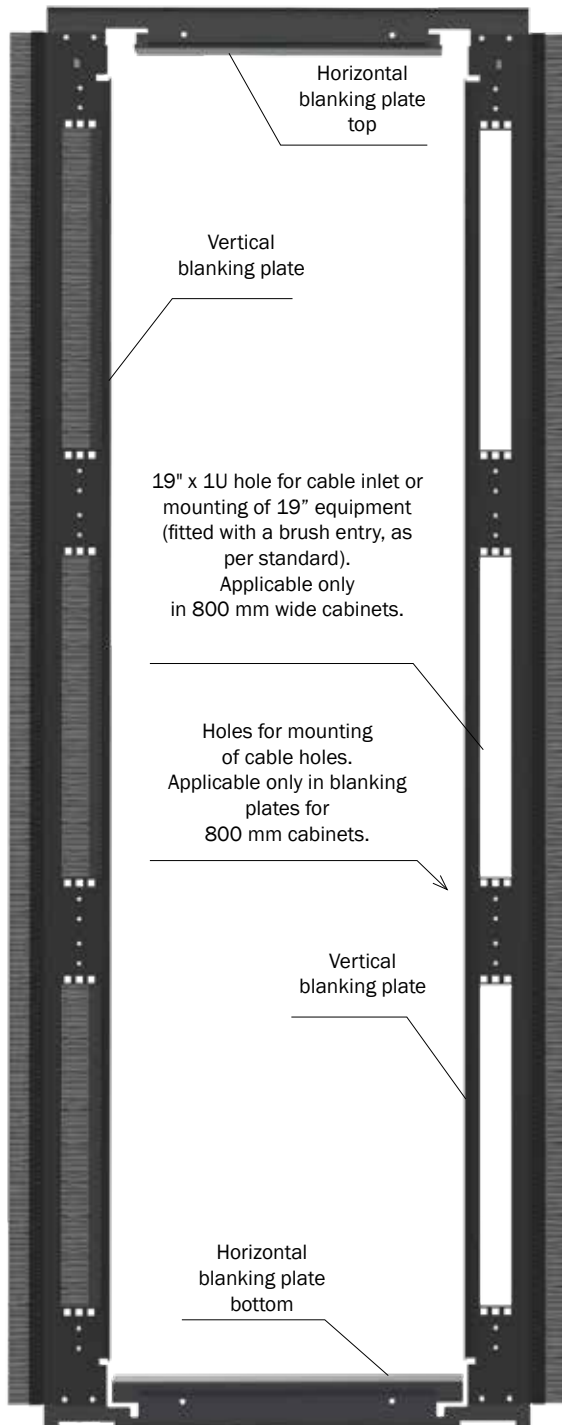
For a cabinet		Partition type	Article, grey color RAL 7035	Article, black color RAL 9005
Height (U)	Depth (mm)			
42U	1000	C	ZP-SP35-42U-C-1000	ZP-SP05-42U-C-1000
42U	1000	D	ZP-SP35-42U-D-1000	ZP-SP05-42U-D-1000
42U	1200	C	ZP-SP35-42U-C-1200	ZP-SP05-42U-C-1200
42U	1200	D	ZP-SP35-42U-D-1200	ZP-SP05-42U-D-1200
45U	1000	C	ZP-SP35-45U-C-1000	ZP-SP05-45U-C-1000
45U	1000	D	ZP-SP35-45U-D-1000	ZP-SP05-45U-D-1000
45U	1200	C	ZP-SP35-45U-C-1200	ZP-SP05-45U-C-1200
45U	1200	D	ZP-SP35-45U-D-1200	ZP-SP05-45U-D-1200
47U	1000	C	ZP-SP35-47U-C-1000	ZP-SP05-47U-C-1000
47U	1000	D	ZP-SP35-47U-D-1000	ZP-SP05-47U-D-1000
47U	1200	C	ZP-SP35-47U-C-1200	ZP-SP05-47U-C-1200
47U	1200	D	ZP-SP35-47U-D-1200	ZP-SP05-47U-D-1200

Vertical blanking plates

They cover distance between 19" mounting profiles and side panel of a cabinet. Prevent inlet of hot air to a space in front of a cabinet, allowing to increase efficiency of air cooling system.

Blanking plates for 800 mm wide cabinets have holes for cable rings and installation of 1U high cable channels, allowing to install various additional equipment.

Blanking plates can be fastened to mounting profiles without any tools.



Horizontal and vertical blanking plates for 800 mm cabinet

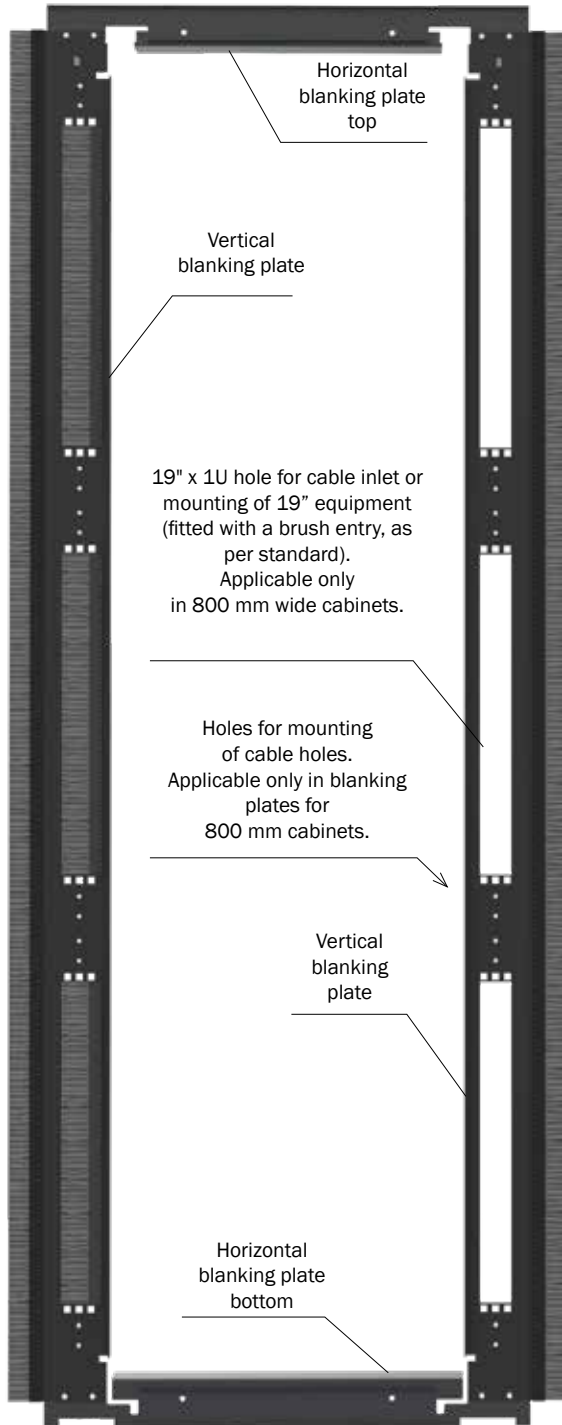
Specifications

- Material: sheet steel
- Coating: powder painting
- Color: RAL 7035 (grey)
RAL 9005 (black)
- Brush inserts: are made of black plastic

Configuration

- Vertical blanking plates – 2 pcs.
- Fasteners

For a cabinet		Article, Grey color RAL 7035	Article, black color RAL 9005
Height (U)	Depth (mm)		
42U	600	ZP-FP35-42U-V-0600	ZP-FP05-42U-V-0600
42U	800	ZP-FP35-42U-V-0800	ZP-FP05-42U-V-0800
45U	600	ZP-FP35-45U-V-0600	ZP-FP05-45U-V-0600
45U	800	ZP-FP35-45U-V-0800	ZP-FP05-45U-V-0800
47U	600	ZP-FP35-47U-V-0600	ZP-FP05-47U-V-0600
47U	800	ZP-FP35-47U-V-0800	ZP-FP05-47U-V-0800



Horizontal and vertical blanking plates for 800 mm cabinet

Horizontal blanking plates

Cover distance between 19" mounting area and top/bottom panel of a cabinet. Prevent inlet of hot air to a space in front of a cabinet, allowing to increase efficiency of air cooling system. Horizontal blanking plates are fastened to vertical blanking plates.

Specifications

- Material: sheet steel
- Coating: powder painting
- Color: RAL 7035 (grey)
RAL 9005 (black)
- Brush inserts: are made of black plastic

Configuration

- Horizontal blanking plates – 2 pcs.
- Fasteners

For a cabinet		Article, Grey color RAL 7035	Article, black color RAL 9005
Height (U)	Depth (mm)		
42U	600	ZP-FP35-42U-H-0600	ZP-FP05-42U-H-0600
42U	800	ZP-FP35-42U-H-0800	ZP-FP05-42U-H-0800
45U	600	ZP-FP35-45U-H-0600	ZP-FP05-45U-H-0600
45U	800	ZP-FP35-45U-H-0800	ZP-FP05-45U-H-0800
47U	600	ZP-FP35-47U-H-0600	ZP-FP05-47U-H-0600
47U	800	ZP-FP35-47U-H-0800	ZP-FP05-47U-H-0800

Insulated cold aisle

Insulated cold aisle is a physical partition of cold air, fed from conditioning devices, and hot air stream, generated by operating equipment.
Insulated cold aisle ensures optimal utilization of data center infrastructure.



Cold aisle roof (high)



150 mm high roof module. Top transparent element of a module can be lifted and installed with no tools. Modular design provides convenient extension.

Specifications

- Material sheet steel
- Coating powder painting
- Color RAL 7035 (grey)
RAL 9005 (black)
- Transparent polycarbonate element

Configuration

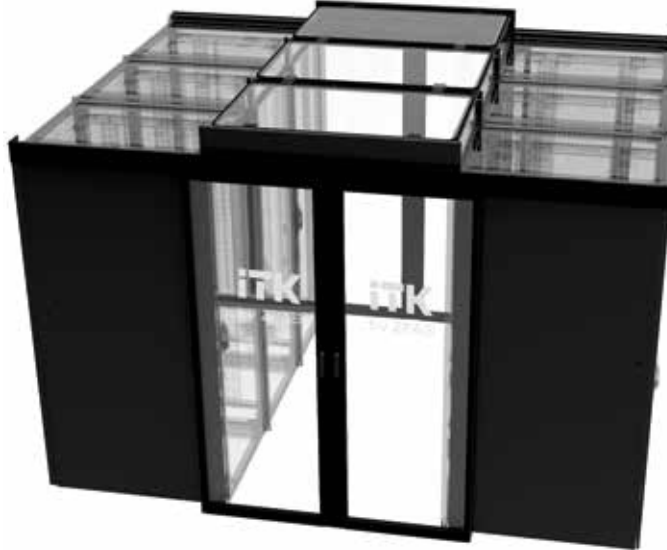
- Roof module
- Fasteners

Product range

Name	For a cabinet with width (mm)	Article, Grey color RAL 7035	Article, black color RAL 9005
Cold aisle roof	600	WZ-8477-45-01-011	WZ-8477-45-01-161
Cold aisle roof	800	WZ-8477-45-02-011	WZ-8477-45-02-161

Sliding doors of a cold aisle

Glass sliding doors with manual actuator with no lock, expandable on the full width of an aisle, in a set with a blanking plate of an aisle roof and side panels of cabinets.



Specifications		Configuration
<ul style="list-style-type: none"> Material 	aluminum profiles; tempered glass; sheet steel	<ul style="list-style-type: none"> Wings of sliding doors – 2 pcs. Side panels of cabinets – 2 pcs. Blanking plate Aisle roofs Fasteners
<ul style="list-style-type: none"> Coating 	powder painting	
<ul style="list-style-type: none"> Color 	RAL 7035 (grey) RAL 9005 (black)	

Product range

For Z-SERVER BOX system configuration, consisting of the cabinets:		Article			
		Sliding doors without a door check for an aisle 1200 mm wide		Sliding doors with a door check for an aisle 1200 mm wide	
height (U)	depth (mm)	RAL 7035	RAL 9005	RAL 7035	RAL 9005
42U without legs	1000	ZP-FD35-42U-1000	ZP-FD05-42U-1000	ZP-FD35-42U-1000-D	ZP-FD05-42U-1000-D
42U without legs	1200	ZP-FD35-42U-1200	ZP-FD05-42U-1200	ZP-FD35-42U-1200-D	ZP-FD05-42U-1200-D
45U without legs	1000	ZP-FD35-45U-1000	ZP-FD05-45U-1000	ZP-FD35-45U-1000-D	ZP-FD05-45U-1000-D
45U without legs	1200	ZP-FD35-45U-1200	ZP-FD05-45U-1200	ZP-FD35-45U-1200-D	ZP-FD05-45U-1200-D
47U without legs	1000	ZP-FD35-47U-1000	ZP-FD05-47U-1000	ZP-FD35-47U-1000-D	ZP-FD05-47U-1000-D
47U without legs	1200	ZP-FD35-47U-1200	ZP-FD05-47U-1200	ZP-FD35-47U-1200-D	ZP-FD05-47U-1200-D
42U with legs	1000	ZP-FD35-42U-1000-L	ZP-FD05-42U-1000-L	ZP-FD35-42U-1000-DL	ZP-FD05-42U-1000-DL
42U with legs	1200	ZP-FD35-42U-1200-L	ZP-FD05-42U-1200-L	ZP-FD35-42U-1200-DL	ZP-FD05-42U-1200-DL
45U with legs	1000	ZP-FD35-45U-1000-L	ZP-FD05-45U-1000-L	ZP-FD35-45U-1000-DL	ZP-FD05-45U-1000-DL
45U with legs	1200	ZP-FD35-45U-1200-L	ZP-FD05-45U-1200-L	ZP-FD35-45U-1200-DL	ZP-FD05-45U-1200-DL
47U with legs	1000	ZP-FD35-47U-1000-L	ZP-FD05-47U-1000-L	ZP-FD35-47U-1000-DL	ZP-FD05-47U-1000-DL
47U with legs	1200	ZP-FD35-47U-1200-L	ZP-FD05-47U-1200-L	ZP-FD35-47U-1200-DL	ZP-FD05-47U-1200-DL

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itK

LAN cable

- Indoor twisted pair of 5E, 6, 6A and 7 categories
- Outdoor twisted pair of 5E and 6 categories



ITK cables with copper conduct carrying strands are designated to build structured cable systems, local computing networks, for general communication infrastructure of buildings, trunk and horizontal subsystems to transmit information in Ethernet networks on a frequency between 100 to 1000 MHz.

Due to cutting edge equipment and high quality equipment, ITK LAN cables offer persistently high properties, meeting up-to-date international standards, certified according to GOST R and TR CU.

Depending on cable structure, laying conditions and scope of application, ITK® communication cables are presented by the following main groups:

Indoor twisted pair

- category 5E shielded and unshielded;
- category 6 shielded and unshielded;
- category 6A and 7 shielded and unshielded;
- multipair cables shielded and unshielded;

Outdoor twisted pair

- category 5E shielded and unshielded;
- category 6 shielded and unshielded;
- multipair cables shielded and unshielded;

Coaxial cable RG6 and RG11.

ITK produces a wide range of ports and protective caps for cable termination in order to connect them to active or passive equipment, connect to Keystone Jack modules and information sockets. Cable stripping, crimping, dressing into modules and other operations with cable are executed using ITK® tool, developed specially for these purposes.



Indoor twisted pair

The most common type of cable, applied in cable systems and IT infrastructure of buildings, is an indoor twisted pair communication cable. It belongs to a symmetrical electric cables class and is used to transmit information in Ethernet networks on a frequency from 100 to 1000 MHz, has a low price and is simple to mount. Multipair ITK® cable is designed for voice communication systems and Ethernet low bandwidth data transmission applications.

Construction features

ITK® LAN cable consists of pairs, formed by two current-carrying copper conductors, covered with insulation made of PVC or high density polyethylene, twisted between each other with a certain length of twist and protected by an outer sheath. Current-carrying conductors can be single-wired and multi-wired. The latter are common in cables, used to manufacture patch cords.

Depending on operating frequency, cables are divided into categories 5E, 6, 6A, 7 (according to ISO/IEC 11801:2002(E) and GOST R 54429). Depending on a twisted pair type, quantity of pairs under an outer jacket varies between 1 to 100; they can be shielded and unshielded.

Shell of an indoor twisted pair usually is made of PVC, polyethylene (PE) or a material based on combination of polyethylene, polyvinylchlorid and special additions, that slows down burning, emits a small amount of smoke and does not contain halogens in the combustion products (LSZH). Also this can be an unshielded or shielded foil, metal tape or braiding made of metal wires.

All ITK® cables have a label indicating cable category, quantity of pairs, type and diameter of a copper conductor, as well as length tags in every meter. LAN cables are delivered in cardboard boxes or on wooden drums in 100, 305 and 500 meters.

Advantages

- Applicable for networks ISDN, 10baseT, 100baseT, 1000baseT, EIA RS 232/485, 155 Mbit ATM, Token Ring.
- Compliance with international standards
- Extended frequency range
- Shielded cables are great at protecting networks against large electromagnetic interferences and radiations.
- Twisted pair conductors are made of high quality electric copper T1.
- They can be executed in outer jackets, meeting fire safety requirements.
- There is a large selection of cabling depending on customer's requirements and needs.
- Convenient and clear labeling.
- Minimum delivery time.
- GOST R and TR CU compliance certification.

Article explanation based on LC1-C5E02-311 instance

- LC1** type of cable and laying conditions
 LC1 – single-wire (SOLID) for indoor laying
 LC2 – multi-wire (PATCH) for indoor laying
- C5E** cable category according to GOST R 54429 and in compliance with ISO/IEC 11801:2002(E)
 C5E – 5E category cable
 C6 – 6 category cable
 C6A – 6A category cable
 C7 – 7 category cable
- 02** quantity of pairs
 01 – 1 pair
 02 – 2 pairs
 04 – 4 pairs

 100 – 100 pairs

3 – shield type:

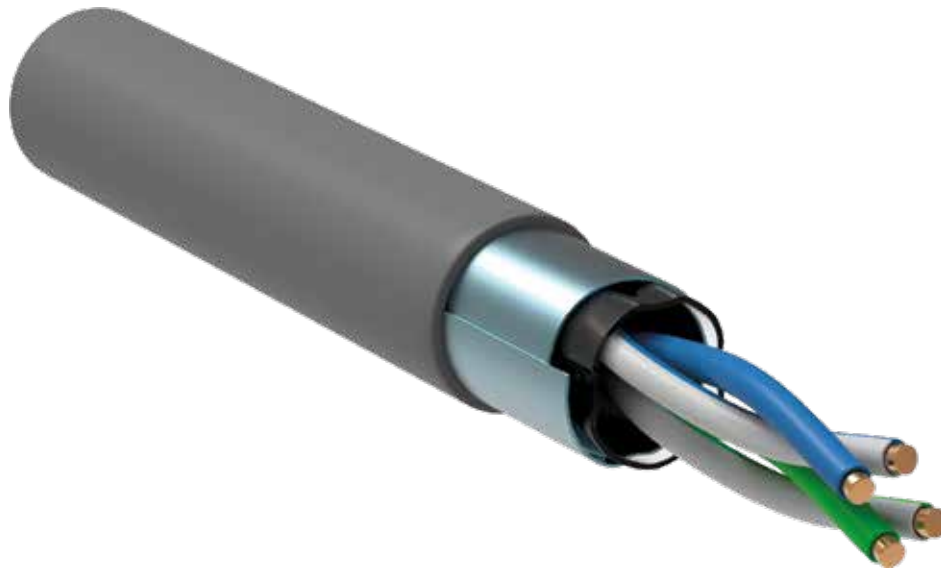
- 1 – U/UTP
- 2 – U/FTP
- 3 – F/UTP
- 4 – F/FTP
- 5 – S/UTP
- 6 – S/FTP
- 7 – SF/UTP
- 8 – SF/FTP

1 – outer jacket:

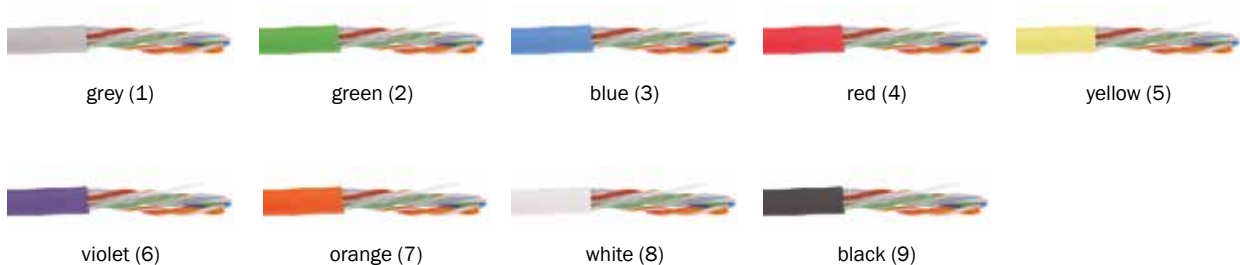
- 1 – PVC
- 2 – LSZH
- 3 – PE (polyethylene)
- 4 – dual PVC+LDPE
- 5 – FR-PVC
- 6 – FR-LSZH
- 0 – no outer jacket

1 – cable color:

- 1 – grey
- 2 – green
- 3 – blue
- 4 – red
- 5 – yellow
- 6 – violet
- 7 – orange
- 8 – white
- 9 – black
- 0 – no outer jacket



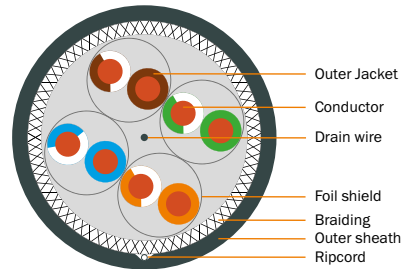
Shell color



LAN cable of category 7 shielded GREEN



Cable view in a cross section



Specifications

Name	LC1-C704-622
Category	7
Bandwidth	600 MHz
Shielding type	S/FTP
Quantity of pairs	4
Conductor material	Copper
Conductor type	Single wire (solid)
Conductor diameter	23 AWG (0.57±0.01 mm)
Conductor section	0.255 mm ²
Conductor insulation material	Polyethylene foam
Conductor insulation thickness	0.38 mm
Conductor insulation diameter	1.33 mm
Outer sheath material	LSLTx ng(A)-LSLTx
Application	Indoor laying
Shell thickness	0.55±0.05 mm
Shell outer diameter	7.6±0.4 mm
Shell color	green
Individual shield construction	Polyester aluminum foil
General shield construction	Braiding made of tinned copper wire
Drain conductor	Yes
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	110 N
Surge resistance	100±15 Ohm
Notational velocity of propagation (NVP)	74%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 2%
Signal propagation delay mismatch	Max. 25 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km
Tear force	900 N
Length	305 m

Specifications

Name	LC1-C704-622
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-40...+60°C
Type of packaging	Plastic drum in a cardboard box
Package dimensions	350×350×380 mm.
Bulk weight	61.6 kg
Warranty	Component-wise – 15 years System-wise – 25 years

Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elftxt	Pselfxt
1.0	20.0	2.0	78.0	75.0	78.0	75.0
4.0	23.0	3.7	78.0	75.0	78.0	75.0
10.0	25.0	5.9	78.0	75.0	75.3	72.3
16.0	25.0	7.4	78.0	75.0	71.2	68.2
20.0	25.0	8.3	78.0	75.0	69.3	66.3
25.0	24.3	9.3	78.0	75.0	67.3	64.3
31.25	23.6	10.4	78.0	75.0	65.4	62.4
62.5	21.5	14.9	75.4	72.4	59.4	56.4
100.0	20.1	19.0	72.4	69.4	55.3	52.3
150.0	18.9	23.6	69.8	66.8	51.8	48.8
200.0	18.0	27.5	67.9	64.9	49.3	46.3
250.0	17.3	31.0	66.4	63.4	47.3	44.3
300.0	17.3	34.2	65.2	62.2	45.8	42.8
400.0	17.3	40.0	63.4	60.4	43.3	40.3
500.0	17.3	45.3	61.9	58.9	41.3	38.3
600.0	17.3	50.1	60.7	57.7	39.7	36.7

Product range

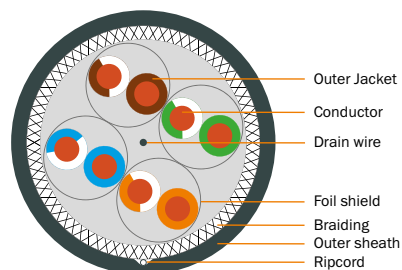
Name	Category	Shell color	Shell material	Status	Article
ITK twisted pair S/FTP cat. 7 4×2×23AWG solid LSLTx нr(A)-LSLTx green (305 m)	7	green	LSLTx нr(A)-LSLTx	design	LC1-C704-622

* нr – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 6A shielded GREEN



Cable view in a cross section



Specifications

Name	LC1-C6A04-622	LC1-C6A04-611
Category	6A	
Bandwidth	500 MHz	
Shielding type	S/FTP	
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	23 AWG (0.57 ± 0.01 mm)	
Conductor section	0.255 mm ²	
Conductor insulation material	Polyethylene foam	
Conductor insulation thickness	0.39 mm	
Conductor insulation diameter	1.33 mm	
Outer sheath material	LSLTx Hr(A)-LSLTx	PVC
Application	Indoor laying	
Shell thickness	0.55±0.05 mm	
Shell outer diameter	7.5±0.4 mm	
Shell color	green	grey
Individual shield construction	Polyester aluminum foil	
General shield construction	Braiding made of tinned copper wire	
Drain conductor	Yes	
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	110 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	74%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 2%	
Signal propagation delay mismatch	Max. 45 ns/100 m	
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	900 N	
Length	305 m	

* Hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Name	LC1-C6A04-622	LC1-C6A04-611
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-40...+60°C	
Type of packaging	Plastic drum in a cardboard box	
Package dimensions	325×325×265 mm.	350×350×315 mm.
Bulk weight	53.6 kg	61.6 kg
Warranty	Component-wise – 15 years System-wise – 25 years	

Cable transmission characteristics

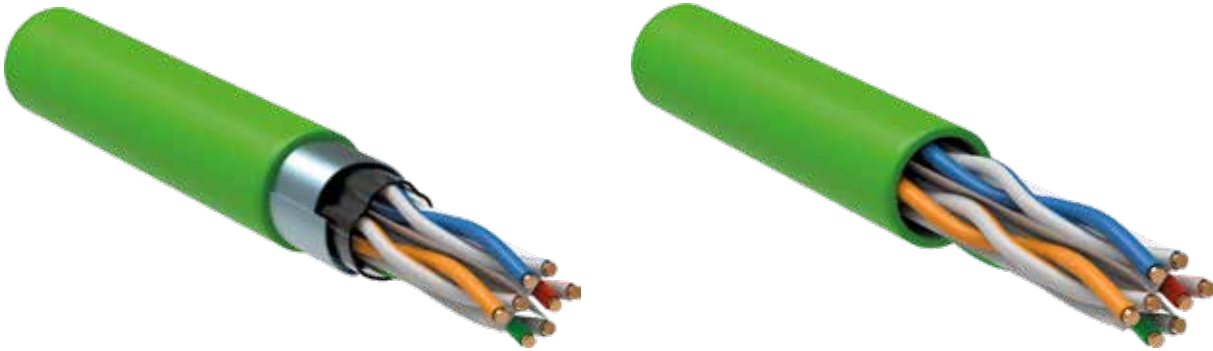
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	5.9	60.3	57.3	48.0	45.0
16.0	25.0	7.5	57.2	54.2	44.0	41.0
20.0	25.0	8.4	55.8	52.8	42.0	39.0
25.0	24.3	9.4	54.3	51.3	40.0	37.0
31.25	23.6	10.5	52.8	49.8	38.0	35.0
62.5	21.5	15.0	48.3	45.3	32.0	29.0
100.0	20.1	19.1	45.3	42.3	28.0	25.0
150.0	18.9	23.7	42.7	39.7	24.5	21.5
200.0	18.0	27.6	40.8	37.8	22.0	19.0
250.0	17.3	31.1	39.3	36.3	20.0	17.0
300.0	16.8	34.3	38.1	35.1	18.5	15.5
400.0	15.9	40.1	36.3	33.3	16.0	13.0
500.0	15.2	45.3	34.8	31.8	14.0	11.0

Product range

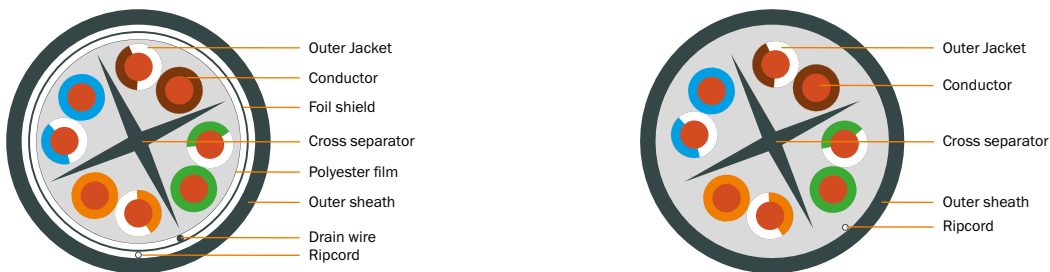
Name	Category	Shell color	Shell material	Status	Article
Twisted pair S/FTP cat. 6A 4×2×23 AWG solid LSLTx hr(A)-LSLTx green (305 m)	6A	green	LSLTx hr(A)-LSLTx	design	LC1-C6A04-622
Twisted pair S/FTP cat. 6A 4×2×23AWG solid PVC grey (305 m)	6A	grey	PVC	design	LC1-C6A04-611

* hr – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable 6 category GREEN



Cable view in a cross section



Specifications

Name	LC1-C604-322	LC1-C604-122
Category	6	
Bandwidth	250 MHz	
Shielding type	F/UTP	U/UTP
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	23 AWG (0.57±0.01 mm)	
Conductor section	0.255 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.28 mm	0.22 mm
Conductor insulation diameter	1.12 mm	1.02 mm
Outer sheath material	LSLTx Hr(A)-LSLTx	
Application	Indoor laying	
Shell thickness	0.6±0.05 mm	0.55±0.05 mm
Shell outer diameter	7.4±0.4 mm	6.2±0.4 mm
Shell color	Green	
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	110 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m	

* Hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Name	LC1-C604-322	LC1-C604-122
DC resistance asymmetry of a single pair strands	Max. 2%	
Signal propagation delay mismatch	Max. 45 ns/100 m	
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	600 N	
Length	305 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-40...+60 °C	
Type of packaging	Plastic drum in a cardboard box	
Package dimensions	330×330×350 mm.	320×330×260 mm.
Bulk weight	55 kg	39.9 kg
Warranty	Component-wise – 15 years System-wise – 25 years	

Cable transmission characteristics

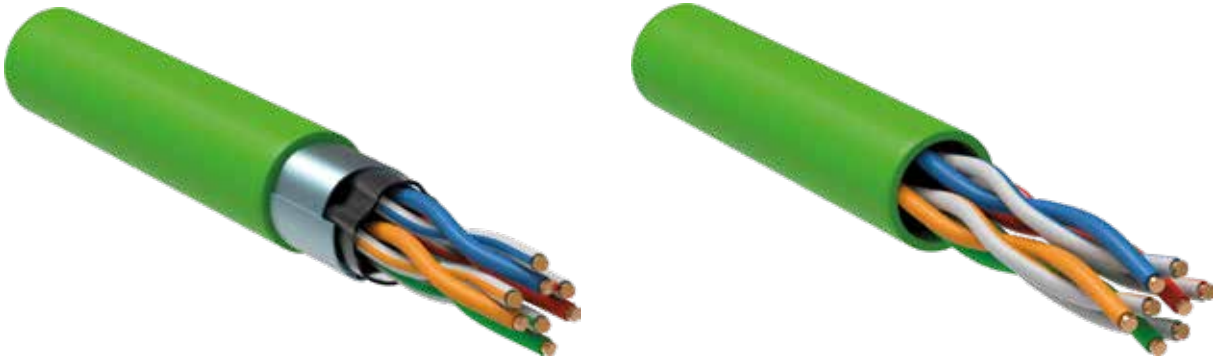
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	6.0	60.3	57.3	48.0	45.0
16.0	25.0	7.6	57.2	54.2	44.0	41.0
20.0	25.0	8.5	55.8	52.8	42.0	39.0
25.0	24.3	9.6	54.3	51.3	40.0	37.0
31.25	23.6	10.7	52.8	49.8	38.0	35.0
62.5	21.5	15.5	48.3	45.3	32.0	29.0
100.0	20.1	19.9	45.3	42.3	28.0	25.0
150.0	18.9	24.8	42.7	39.7	24.5	21.5
200.0	18.0	29.1	40.8	37.8	22.0	19.0
250.0	17.3	33.0	39.3	36.3	20.0	17.0

Product range

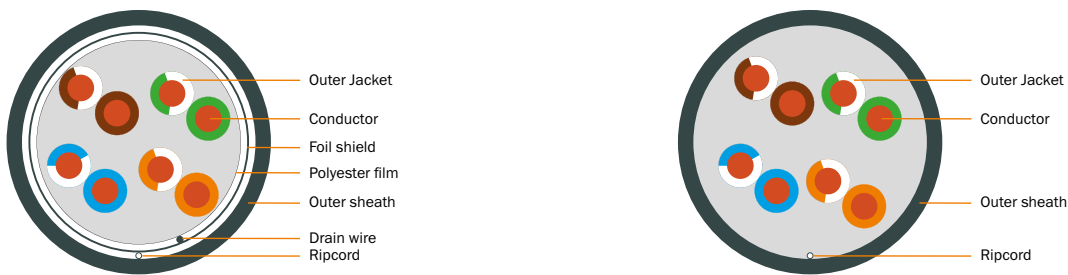
Name	Category	Display type	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat. 6 4×2×23AWG solid LSLTx нГ(A)-LSLTx green (305 m)	6	F/UTP	green	LSLTx нГ(A)-LSLTx	design	LC1-C604-322
Twisted pair U/UTP cat. 6 4×2×23AWG solid LSLTx нГ(A)-LSLTx green (305 m)	6	U/UTP	green	LSLTx нГ(A)-LSLTx	design	LC1-C604-122

* нГ – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable 5E category GREEN



Cable view in a cross section



Specifications

Name	LC1-C5E04-322	LC1-C5E04-122
Category		5E
Bandwidth		100 MHz
Shielding type	F/UTP	U/UTP
Quantity of pairs		4
Conductor material		copper
Conductor type		Single wire (solid)
Conductor diameter		24 AWG (0.52±0.01 mm)
Conductor section		0.212 mm ²
Conductor insulation material		High density polyethylene (HDPE)
Conductor insulation thickness	0.25 mm	0.2 mm
Conductor insulation diameter	1.02 mm	0.91 mm
Outer sheath material		LSLTx hr(A)-LSLTx
Application		Indoor laying
Shell thickness	0.55±0.05 mm	0.5±0.05 mm
Shell outer diameter	6.3±0.4 mm	5.1±0.4 mm
Shell color	Green	
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord		Yes
Bend radius at laying		At least 10 diameters of a cable
Bend radius at operation		At least 8 diameters of a cable
Permissible tensile force		100 N
Surge resistance		100±15 Ohm
Notational velocity of propagation (NVP)		69%
Maximum capacity mismatch		160 pF/100 m
DC resistance of conductor at 20°C		Max. 9.5 Ohm/100 m

* hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Name	LC1-C5E04-322	LC1-C5E04-122
DC resistance asymmetry of a single pair strands	Max. 2%	
Signal propagation delay mismatch	Max. 45 ns/100 m	
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	500 N	
Length	305 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-40...+60°C	
Type of packaging	Cardboard box	
Package dimensions	310×310×280 mm	350×350×260 mm
Bulk weight	44.3 kg	32.6 kg
Warranty	Component-wise – 15 years System-wise – 25 years	

Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	21.5	2.1	70.3	67.3	66.9	63.0
4.0	23.5	4.0	61.3	58.3	54.6	51.0
10.0	28.0	6.3	54.6	51.3	45.6	42.0
20.0	28.0	8.5	51.8	45.3	40.2	37.0
31.25	27.0	11.2	49.1	44.6	37.1	33.0
62.5	23.5	16.0	44.6	40.8	30.2	26.0
100.0	22.0	21.2	41.3	35.7	26.0	23.0

Product range

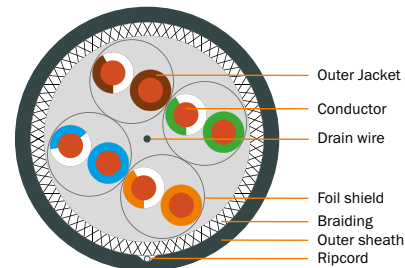
Name	Category	Display type	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat. 5E 4×2×24AWG solid LSLTx hr(A)-LSLTx green (305 m)	5E	F/UTP	green	LSLTx hr(A)-LSLTx	design	LC1-C5E04-322
Twisted pair U/UTP cat. 5E 4×2×24AWG solid LSLTx hr(A)-LSLTx green (305 m)	5E	U/UTP	green	LSLTx hr(A)-LSLTx	design	LC1-C5E04-122

* hr – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 7 shielded Indoor laying



Cable view in a cross section



Specifications

Category	7
Bandwidth	600 MHz
Shielding type	S/FTP
Quantity of pairs	4
Conductor material	Copper
Conductor type	Single wire (solid)
Conductor diameter	23 AWG (0.57±0.01 mm)
Conductor section	0.255 mm ²
Conductor insulation material	Polyethylene foam
Conductor insulation thickness	0.39 mm
Conductor insulation diameter	1.35 mm
Outer sheath material	LSZH нr(A)-HF
Application	Indoor laying
Shell thickness	0.55±0.05 mm
Shell outer diameter	8±0.4 mm
Individual shield construction	Polyester aluminum foil
General shield construction	Braiding made of tinned copper wire
Drain conductor	Yes
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	110 N
Surge resistance	100±15 Ohm
Notational velocity of propagation (NVP)	74%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 2%
Signal propagation delay mismatch	Max. 45 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km
Tear force	900 N
Length	305 m
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/ EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-20...+60°C
Type of packaging	Plywood drum
Package dimensions	350×350×350 mm
Bulk weight	59.8 kg

* нr – not flammable; LS – Low Smoke; LTx – Low Toxic

Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.0	78.0	75.0	78.0	75.0
4.0	23.0	3.7	78.0	75.0	78.0	75.0
10.0	25.0	5.9	78.0	75.0	75.3	72.3
16.0	25.0	7.4	78.0	75.0	71.2	68.2
20.0	25.0	8.3	78.0	75.0	69.3	66.3
25.0	24.3	9.3	78.0	75.0	67.3	64.3
31.25	23.6	10.4	78.0	75.0	65.4	62.4
62.5	21.5	14.9	75.4	72.4	59.4	56.4
100.0	20.1	19.0	72.4	69.4	55.3	52.3
150.0	18.9	23.6	69.8	66.8	51.8	48.8
200.0	18.0	27.5	67.9	64.9	49.3	46.3
250.0	17.3	31.0	66.4	63.4	47.3	44.3
300.0	17.3	34.2	65.2	62.2	45.8	42.8
400.0	17.3	40.0	63.4	60.4	43.3	40.3
500.0	17.3	45.3	61.9	58.9	41.3	38.3
600.0	17.3	50.1	60.7	57.7	39.7	36.7

Product range

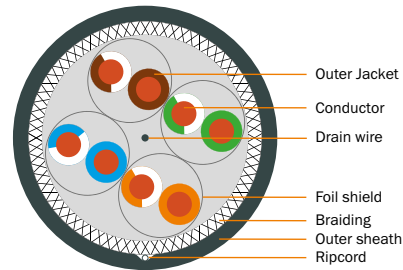
Name	Category	Display type	Shell color	Shell material	Status	Article
Twisted pair S/FTP cat.7 4×2×23 AWG solid LSZH нг(A)-HF grey (305 m)	7	S/FTP	grey	LSZH нг(A)-HF	design	LC1-C704-621
Twisted pair S/FTP cat.7 4×2×23 AWG solid LSZH нг(A)-HF violet (305 m)	7	S/FTP	violet	LSZH нг(A)-HF	design	LC1-C704-626
Twisted pair S/FTP cat.7 4×2×23 AWG solid LSZH нг(A)-HF orange (305 m)	7	S/FTP	orange	LSZH нг(A)-HF	design	LC1-C704-627

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 6A shielded Indoor laying



Cable view in a cross section



Specifications

Category	6A
Bandwidth	500 MHz
Shielding type	S/FTP
Quantity of pairs	4
Conductor material	Copper
Conductor type	Single wire (solid)
Conductor diameter	23 AWG (0.57±0.01 mm)
Conductor section	0.255 mm ²
Conductor insulation material	Polyethylene foam
Conductor insulation thickness	0.39 mm
Conductor insulation diameter	1.35 mm
Outer sheath material	LSZH Hr(A)-HF
Application	Indoor laying
Shell thickness	0.55±0.05 mm
Shell outer diameter	8±0.4 mm
Individual shield construction	Polyester aluminum foil
General shield construction	Braiding made of tinned copper wire
Drain conductor	Yes
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	110 N
Surge resistance	100±15 Ohm
Notational velocity of propagation (NVP)	74%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 2%
Signal propagation delay mismatch	Max. 45 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km
Tear force	900 N
Length	305 m
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-20...+60°C
Type of packaging	Plywood drum
Package dimensions	350×350×350 mm
Bulk weight	59.8 kg

* Hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Cable transmission characteristics

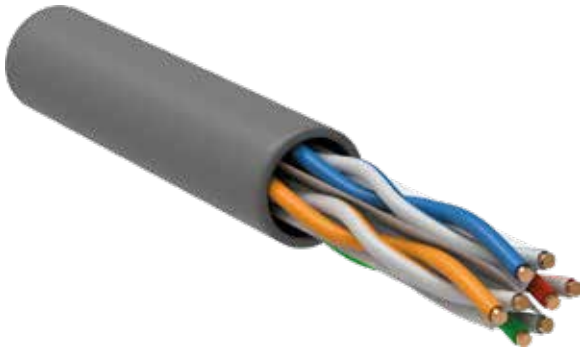
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	5.9	60.3	57.3	48.0	45.0
16.0	25.0	7.5	57.2	54.2	44.0	41.0
20.0	25.0	8.4	55.8	52.8	42.0	39.0
25.0	24.3	9.4	54.3	51.3	40.0	37.0
31.25	23.6	10.5	52.8	49.8	38.0	35.0
62.5	21.5	15.0	48.3	45.3	32.0	29.0
100.0	20.1	19.1	45.3	42.3	28.0	25.0
150.0	18.9	23.7	42.7	39.7	24.5	21.5
200.0	18.0	27.6	40.8	37.8	22.0	19.0
250.0	17.3	31.1	39.3	36.3	20.0	17.0
300.0	16.8	34.3	38.1	35.1	18.5	15.5
400.0	15.9	40.1	36.3	33.3	16.0	13.0
500.0	15.2	45.3	34.8	31.8	14.0	11.0

Product range

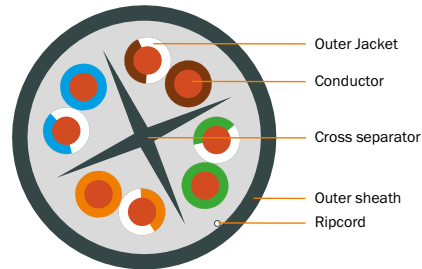
Name	Category	Display type	Shell color	Shell material	Status	Article
Twisted pair S/FTP cat.6A 4×2×23 AWG solid LSZH нг(A)-HF grey (305 m)	6A	S/FTP	grey	LSZH нг(A)-HF	design	LC1-C6A04-621
Twisted pair S/FTP cat. 6A 4×2×23 AWG solid LSZH нг(A)-HF violet (305 m)	6A	S/FTP	violet	LSZH нг(A)-HF	design	LC1-C6A04-626
Twisted pair S/FTP cat.6A 4×2×23 AWG solid LSZH нг(A)-HF orange (305 m)	6A	S/FTP	orange	LSZH нг(A)-HF	design	LC1-C6A04-627

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 6A unshielded



Cable view in a cross section



Specifications

Name	LC1-C6A04-121
Category	6A
Bandwidth	500 MHz
Shielding type	U/UTP
Quantity of pairs	4
Conductor material	Copper
Conductor type	Single wire (solid)
Conductor diameter	23 AWG (0.57±0.01 mm)
Conductor section	0.255 mm ²
Conductor insulation material	High density polyethylene (HDPE)
Conductor insulation thickness	0.23 mm
Conductor insulation diameter	1.02 mm
Outer sheath material	LSLTx hr(A)-LSLTx
Application	Indoor laying
Shell thickness	0.7±0.04 mm
Shell outer diameter	7.1±0.4 mm
Shell color	grey
Individual shield construction	-
General shield construction	-
Drain conductor	-
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	110 N
Surge resistance	100±15 Ohm
Notational velocity of propagation (NVP)	69%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 2%
Signal propagation delay mismatch	Max. 25 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km

* hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Name	LC1-C6A04-121
Tear force	600 N
Length	305 m
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-40...+60°C
Type of packaging	Plastic drum in a cardboard box
Package dimensions	350×350×330 mm
Bulk weight	49.5 kg
Warranty	Component-wise – 15 years. System-wise – 25 years

Cable transmission characteristics

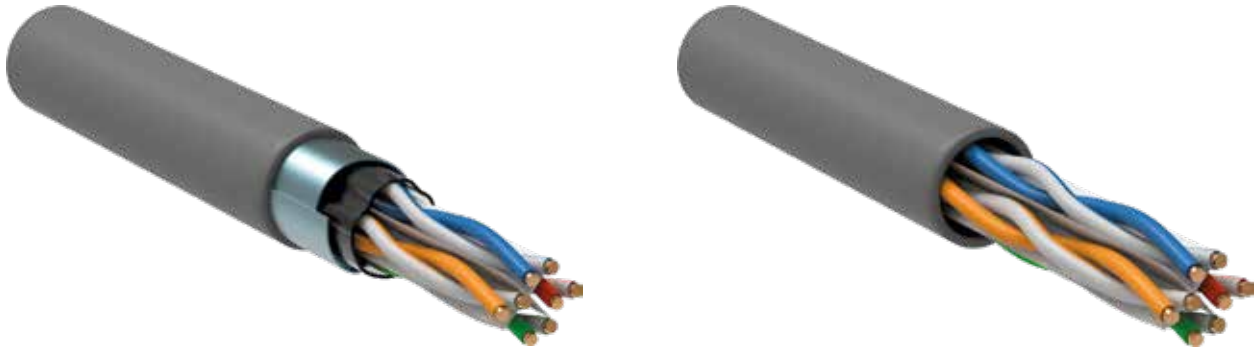
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elftxt	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	5.9	60.3	57.3	48.0	45.0
16.0	25.0	7.5	57.2	54.2	44.0	41.0
20.0	25.0	8.4	55.8	52.8	42.0	39.0
25.0	24.3	9.4	54.3	51.3	40.0	37.0
31.25	23.6	10.5	52.8	49.8	38.0	35.0
62.5	21.5	15.0	48.3	45.3	32.0	29.0
100.0	20.1	19.1	45.3	42.3	28.0	25.0
150.0	18.9	23.7	42.7	39.7	24.5	21.5
200.0	18.0	27.6	40.8	37.8	22.0	19.0
250.0	17.3	31.1	39.3	36.3	20.0	17.0
300.0	16.8	34.3	38.1	35.1	18.5	15.5
400.0	15.9	40.1	36.3	33.3	16.0	13.0
500.0	15.2	45.3	34.8	31.8	14.0	11.0

Product range

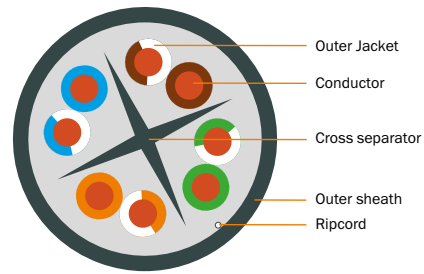
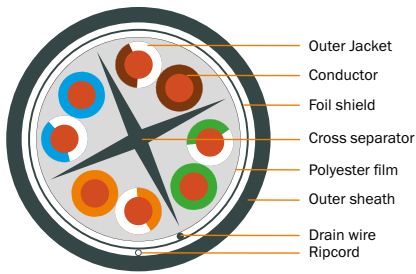
Name	Category	Shell color	Shell material	Status	Article
Twisted pair U/UTP cat.6A 4×2×23 AWG solid LSLTx hr(A)- LSLTx grey (305 m)	6A	grey	LSLTx hr(A)-LSLTx	design	LC1-C6A04-121

* hr – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 6 Indoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	6	
Bandwidth	250 MHz	
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	23 AWG (0.57±0.01 mm) / 23 AWG (0.55±0.01 mm)	
Conductor section	0.255 mm ² / 0.237 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.29 mm	0.23 mm
Conductor insulation diameter	1.14 mm	1.02 mm
Outer sheath material	LSZH нг(A)-LSLtx / LSZH нг(A)-HF / PVC	
Application	Indoor laying	
Shell thickness	0.55 ± 0.05 mm	
Shell outer diameter	7.5±0.4 mm	6.2±0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	-
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	110 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	72%	69%
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 2%	
Signal propagation delay mismatch	Max. 45 ns/100 m	

* нг - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Shielding type	F/UTP	U/UTP
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	600 N	
Length	305 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-20...+60 °C	
Type of packaging	Plywood drum	Cardboard box
Package dimensions, mm	350×350×300	320×330×260
Bulk weight	55.7 kg	45.9 kg

Cable transmission characteristics

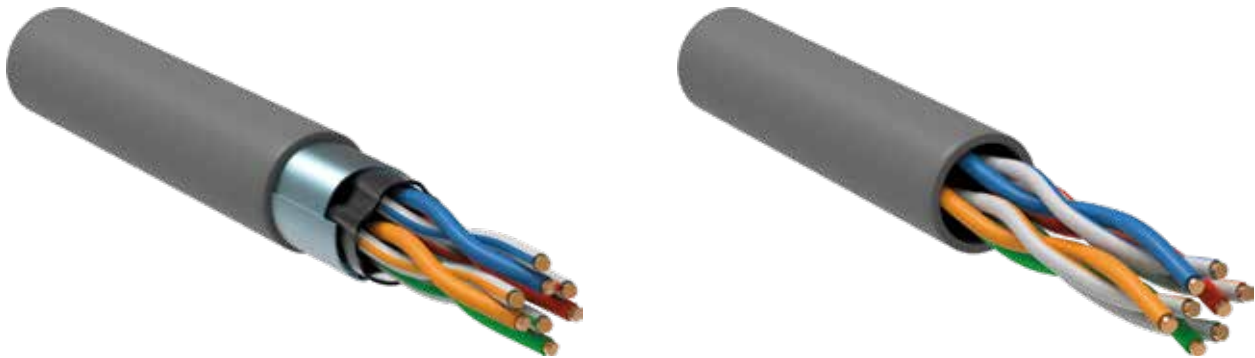
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	6.0	60.3	57.3	48.0	45.0
16.0	25.0	7.6	57.2	54.2	44.0	41.0
20.0	25.0	8.5	55.8	52.8	42.0	39.0
25.0	24.3	9.6	54.3	51.3	40.0	37.0
31.25	23.6	10.7	52.8	49.8	38.0	35.0
62.5	21.5	15.5	48.3	45.3	32.0	29.0
100.0	20.1	19.9	45.3	42.3	28.0	25.0
150.0	18.9	24.8	42.7	39.7	24.5	21.5
200.0	18.0	29.1	40.8	37.8	22.0	19.0
250.0	17.3	33.0	39.3	36.3	20.0	17.0

Product range

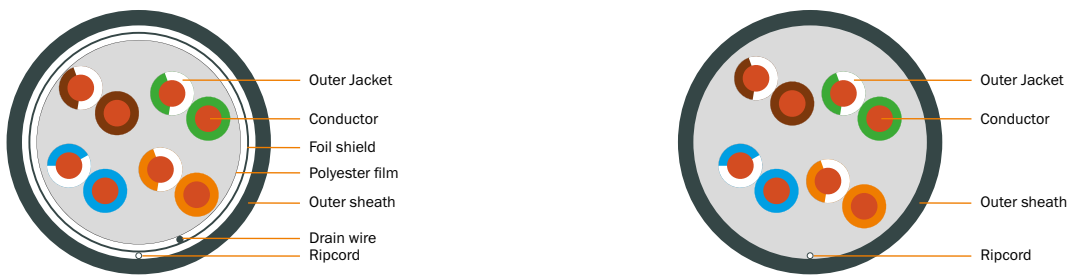
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-LSLTx white (305 m)	6	F/UTP	0.57 mm	white	LSZH нг(A)-LSLTx	design	LC1-C604-328
Twisted pair F/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF orange (305 m)	6	F/UTP	0.57 mm	orange	LSZH нг(A)-HF	warehouse	LC1-C604-327
Twisted pair F/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF grey (305 m)	6	F/UTP	0.57 mm	grey	LSZH нг(A)-HF	custom	LC1-C604-321
Twisted pair F/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF violet (305 m)	6	F/UTP	0.57 mm	violet	LSZH нг(A)-HF	custom	LC1-C604-326
Twisted pair F/UTP cat.6 4×2×23 AWG solid PVC grey (305 m)	6	F/UTP	0.57 mm	grey	PVC	warehouse	LC1-C604-311
Twisted pair U/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-LSLTx white (305 m)	6	U/UTP	0.57 mm	white	LSZH нг(A)-LSLTx	design	LC1-C604-128
Twisted pair U/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF orange (305 m)	6	U/UTP	0.57 mm	orange	LSZH нг(A)-HF	warehouse	LC1-C604-127
Twisted pair U/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF grey (305 m)	6	U/UTP	0.57 mm	grey	LSZH нг(A)-HF	warehouse	LC1-C604-121
Twisted pair U/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF violet (305 m)	6	U/UTP	0.57 mm	violet	LSZH нг(A)-HF	warehouse	LC1-C604-126
Twisted pair U/UTP cat.6 4×2×23 AWG solid PVC grey (305 m)	6	U/UTP	0.55 mm	grey	PVC	warehouse	LC1-C604-111

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 5E Indoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	5E	
Bandwidth	100 MHz	
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	24 AWG (0.51±0.01 mm)	
Conductor section	0.204 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.25 mm	0.20 mm
Conductor insulation diameter	0.99 mm	0.90 mm
Outer sheath material	LSZH Hr(A)-LSLTx / LSZH Hr(A)-HF / PVC	
Application	Indoor laying	
Shell thickness	0.55±0.05 mm	0.5±0.05 mm
Shell outer diameter	6.2±0.4 mm	5.2±0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	100 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 5%	
Signal propagation delay mismatch	Max. 45 ns/100 m	

* Hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Shielding type	F/UTP	U/UTP
Strand insulation resistance	Min. 5 GΩm·km	
Tear force	500 N	
Length	305 m / 100 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-20...+60°C	
Type of packaging	Cardboard box	
Package dimensions, mm	330×330×270	360×360×200
Bulk weight	40.3 kg	33.4 kg

Cable transmission characteristics

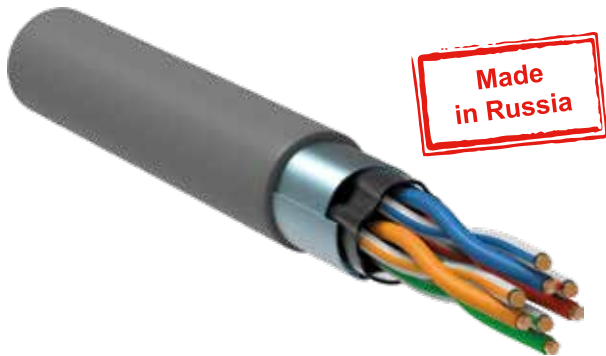
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

Product range

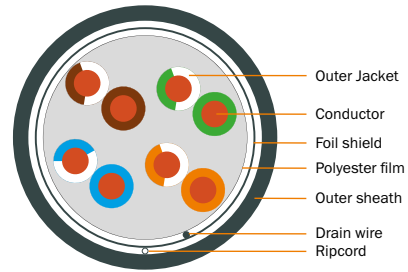
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.5E 4×2×24 AWG LSZH white (305 m)	5E	F/UTP	0.51 mm	white	LSZH нг(A)-LSLTx	design	LC1-C5E04-328
Twisted pair F/UTP cat.5E 4×2×24 AWG LSZH orange (305 m)	5E	F/UTP	0.51 mm	orange	LSZH нг(A)-HF	custom	LC1-C5E04-327
Twisted pair F/UTP cat.5E 4×2×24 AWG LSZH grey (305 m)	5E	F/UTP	0.51 mm	grey	LSZH нг(A)-HF	warehouse	LC1-C5E04-321
Twisted pair F/UTP cat.5E 4×2×24 AWG PVC grey (305 m)	5E	F/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E04-311
Twisted pair U/UTP cat.5E 4×2×24 AWG LSZH white (305 m)	5E	U/UTP	0.51 mm	white	LSZH нг(A)-LSLTx	design	LC1-C5E04-128
Twisted pair U/UTP cat.5E 4×2×24 AWG LSZH orange (305 m)	5E	U/UTP	0.51 mm	orange	LSZH нг(A)-HF	warehouse	LC1-C5E04-127
Twisted pair U/UTP cat.5E 4×2×24 AWG LSZH grey (305 m)	5E	U/UTP	0.51 mm	grey	LSZH нг(A)-HF	warehouse	LC1-C5E04-121
Twisted pair U/UTP cat.5E 4×2×24 AWG LSZH red (305 m)	5E	U/UTP	0.51 mm	red	LSZH нг(A)-HF	warehouse	LC1-C5E04-124
Twisted pair U/UTP cat.5E 4×2×24 AWG LSZH violet (305 m)	5E	U/UTP	0.51 mm	violet	LSZH нг(A)-HF	warehouse	LC1-C5E04-126
Twisted pair U/UTP cat.5E 4×2×24 AWG PVC grey (305 m)	5E	U/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E04-111
Twisted pair U/UTP cat.5E 4×2×24 AWG PVC blue (305 m)	5E	U/UTP	0.51 mm	blue	PVC	custom	LC1-C5E04-113
Twisted pair U/UTP cat.5E 4×2×24 AWG PVC grey (100 m)	5E	U/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E04-111-100
Twisted pair U/UTP cat.5E 4×2×24 AWG LSZH grey (100 m)	5E	U/UTP	0.51 mm	grey	LSZH нг(A)-HF	warehouse	LC1-C5E04-121-100

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 5E Indoor laying



Cable view in a cross section



Specifications

Conductor diameter	0.51; 0.52
Conductor nominal cross-section	0.212 mm ²
Conductor class	class 1 (single-wire strand)
Quantity of strands	4×2, 2×2
Stranding element	Paired
Strand insulation	Solid polyethylene
Strand labeling	color
Stranding surface shield	foil
Outer sheath material	LSZH/PVC
Outer sheath color	grey
Category	5E
NVP indicator	69%
Conductor material	copper
Outer cable diameter	6.5±0.5
Mounting temperature	-10...+50°C
Operating temperature	-40...+60°C
Insulation resistance	5000 MOhms
Maximum DC resistance on 100 m and + 20°C, not more than	9.5 Ohm
Surge resistance	100±15 Ohm
Nominal bitrate	69%
Signal frequency	100 MHz
Operating voltage	≤ 48 V
Cable length	305 m
Max. capacity mismatch, pF per 100 m	160

Cable transmission characteristics

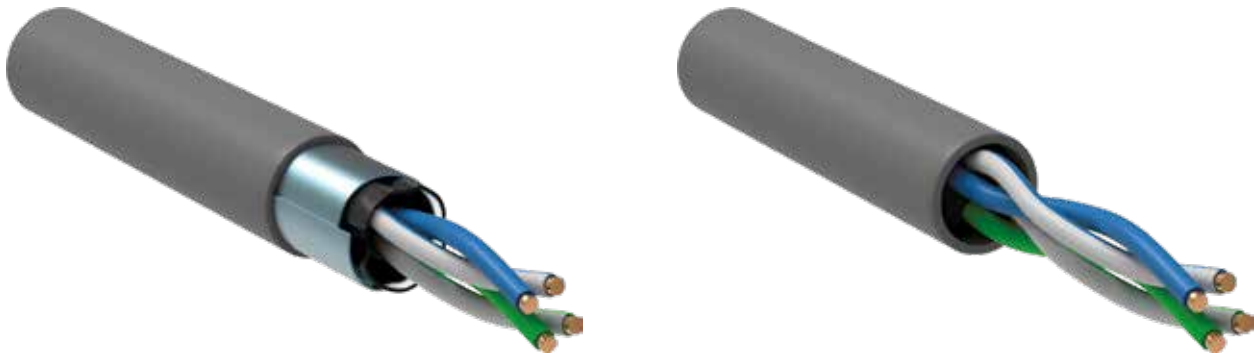
Article	Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
				Next	Psnext	Elfext	Pselfxt
LC1-C5E04-121-R	1.0	20.8	2.1	69.9	66.7	65.3	62.2
LC1-C5E04-321-R	4.0	23.9	4.1	60.2	57.0	53.0	50.0
LC1-C5E04-111-R	10.0	26.0	6.5	53.8	50.6	44.9	41.8
LC1-C5E04-311-R	20.0	26.0	9.3	49.0	45.8	38.8	35.7
LC1-C5E02-121-R	31.25	24.5	11.7	45.9	42.7	34.8	31.7
LC1-C5E02-111-R	62.5	22.4	17.0	41.1	37.9	28.7	25.5
LC1-C5E04-121-P-R	1.0	20.8	2.1	69.9	66.7	65.3	62.2
LC1-C5E04-321-P-R	4.0	23.9	4.1	60.2	57.0	53.0	50.0
LC1-C5E04-111-P-R	10.0	26.0	6.5	53.8	50.6	44.9	41.8
LC1-C5E04-311-P-R	20.0	26.0	9.3	49.0	45.8	38.8	35.7
LC1-C5E02-121-P-R	31.25	24.5	11.7	45.9	42.7	34.8	31.7
LC1-C5E02-111-P-R	62.5	22.4	17.0	41.1	37.9	28.7	25.5

Product range

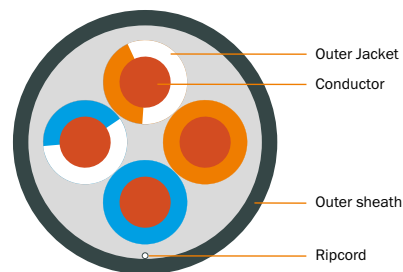
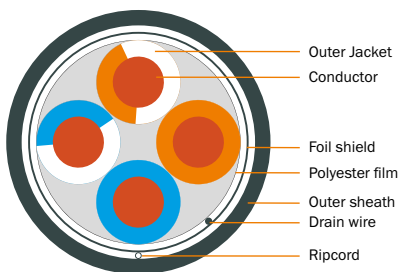
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair U/UTP 5E 2×2×24 AWG solid PVC grey (305 m) RF	5E	U/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E02-111-R
Twisted pair U/UTP 5E 2×2×24 AWG solid LSZH grey (305 m) RF	5E	U/UTP	0.51 mm	grey	LSZH Hг(A)-HF	warehouse	LC1-C5E02-121-R
Twisted pair U/UTP 5E 4×2×24 AWG solid PVC grey (305 m) RF	5E	U/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E04-111-R
Twisted pair F/UTP 5E 4×2×24 AWG solid PVC grey (305 m) RF	5E	F/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E04-311-R
Twisted pair U/UTP 5E 4×2×24 AWG solid LSZH grey (305 m) RF	5E	U/UTP	0.51 mm	grey	LSZH Hг(A)-HF	warehouse	LC1-C5E04-121-R
Twisted pair F/UTP 5E 4×2×24 AWG solid LSZH grey (305 m) RF	5E	F/UTP	0.51 mm	grey	LSZH Hг(A)-HF	warehouse	LC1-C5E04-321-R
Twisted pair U/UTP 5E 2×2×0,52 solid PVC grey (305 m) RF	5E	U/UTP	0.52 mm	grey	PVC	custom	LC1-C5E02-111-P-R
Twisted pair U/UTP 5E 2×2×0,52 solid LSZH grey (305 m) RF	5E	U/UTP	0.52 mm	grey	LSZH Hг(A)-HF	custom	LC1-C5E02-121-P-R
Twisted pair U/UTP 5E 4×2×0,52 solid PVC grey (305 m) RF	5E	U/UTP	0.52 mm	grey	PVC	warehouse	LC1-C5E04-111-P-R
Twisted pair F/UTP 5E 4×2×0,52 solid PVC grey (305 m) RF	5E	F/UTP	0.52 mm	grey	PVC	warehouse	LC1-C5E04-311-P-R
Twisted pair U/UTP 5E 4×2×0,52 solid LSZH grey (305 m) RF	5E	U/UTP	0.52 mm	grey	LSZH Hг(A)-HF	custom	LC1-C5E04-121-P-R
Twisted pair F/UTP 5E 4×2×0,52 solid LSZH grey (305 m) RF	5E	F/UTP	0.52 mm	grey	LSZH Hг(A)-HF	warehouse	LC1-C5E04-321-P-R

* Hг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 5E Indoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	5E	
Bandwidth	100 MHz	
Quantity of pairs	2	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	24 AWG (0.51±0.01 mm)	
Conductor section	0.204 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.25 mm	0.20 mm
Conductor insulation diameter	0.99 mm	0.90 mm
Outer sheath material	LSZH Hr(A)-LSLTx / LSZH Hr(A)-HF / PVC	
Application	Indoor laying	
Shell thickness	0.50±0.05 mm	0.50±0.05 mm
Shell outer diameter	4.2±0.4 mm	4±0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	100 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 5%	
Signal propagation delay mismatch	Max. 45 ns/100 m	

* Hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Shielding type	F/UTP	U/UTP
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	500 N	
Length	500 m / 100 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/ EU REACH EC 1907/2006	
Temperature range	-20...+60°C	
Type of packaging	Cardboard box	
Package dimensions, [mm]	330×330×270	320×320×250
Bulk weight	24 kg	22 kg

Cable transmission characteristics

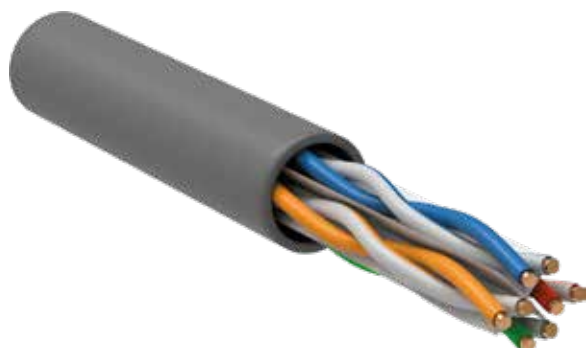
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

Product range

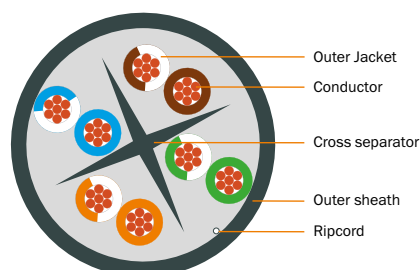
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat. 5E 2×2×24 AWG solid LSZH нг(A)-HF grey (500 m)	5E	F/UTP	0.51 mm	grey	LSZH нг(A)-HF	custom	LC1-C5E02-321
Twisted pair F/UTP cat.5E 2×2×24 AWG solid PVC grey (500 m)	5E	F/UTP	0.51 mm	grey	PVC	custom	LC1-C5E02-311
Twisted pair U/UTP cat.5E 2×2×24 AWG solid LSZH нг(A)-LSLTx white (500 m)	5E	U/UTP	0.51 mm	white	LSZH нг(A)-LSLTx	warehouse	LC1-C5E02-128
Twisted pair U/UTP cat. 5E 2×2×24 AWG solid LSZH нг(A)-HF grey (500 m)	5E	U/UTP	0.51 mm	grey	LSZH нг(A)-HF	warehouse	LC1-C5E02-121
Twisted pair U/UTP cat.5E 2×2×24 AWG solid PVC grey (500 m)	5E	U/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E02-111
Twisted pair U/UTP cat.5E 2×2×24 AWG solid PVC 1 m grey (100 m/coil)	5E	U/UTP	0.51 mm	grey	PVC	warehouse	LC1-C5E02-111-100

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 6 PATCH Indoor laying



Cable view in a cross section



Specifications

Category	6
Bandwidth	250 MHz
Shielding type	U/UTP
Quantity of pairs	4
Conductor material	copper
Conductor type	multi-wire (patch)
Conductor diameter	23 AWG (7×0,2 mm)
Conductor section	0.220 mm ²
Conductor insulation material	High density polyethylene (HDPE)
Conductor insulation thickness	0.19 mm
Conductor insulation diameter	0.98 mm
Outer sheath material	LSZH нг(A)-HF
Application	Indoor laying
Shell thickness	0.55±0.05 mm
Shell outer diameter	6.2±0.4 mm
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	110 N
Surge resistance	100±15 Ohm
Notational velocity of propagation (NVP)	69%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 2%
Signal propagation delay mismatch	Max. 45 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km
Tear force	600 N
Length	305 m
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-20...+60°C
Type of packaging	Plywood drum
Package dimensions	400×400×230 mm
Bulk weight	37.7 kg

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

Cable transmission characteristics

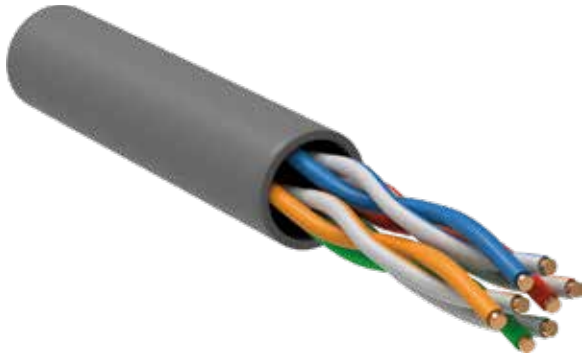
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	6.0	60.3	57.3	48.0	45.0
16.0	25.0	7.6	57.2	54.2	44.0	41.0
20.0	25.0	8.5	55.8	52.8	42.0	39.0
25.0	24.3	9.6	54.3	51.3	40.0	37.0
31.25	23.6	10.7	52.8	49.8	38.0	35.0
62.5	21.5	15.5	48.3	45.3	32.0	29.0
100.0	20.1	19.9	45.3	42.3	28.0	25.0
150.0	18.9	24.8	42.7	39.7	24.5	21.5
200.0	18.0	29.1	40.8	37.8	22.0	19.0
250.0	17.3	33.0	39.3	36.3	20.0	17.0

Product range

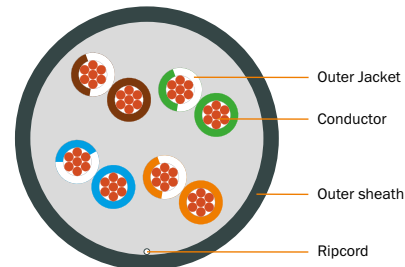
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair U/UTP cat.6 4×2×24 AWG PATCH LSZH нг(A)-HF grey (305 m)	6	U/UTP	23 AWG (7×0.2 mm)	grey	LSZH нг(A)-HF	warehouse	LC2-C604-121

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 5E PATCH Indoor laying



Cable view in a cross section



Specifications

Category	5E
Bandwidth	100 MHz
Shielding type	U/UTP
Quantity of pairs	4
Conductor material	copper
Conductor type	multi-wire (patch)
Conductor diameter	24 AWG (7×0.18 mm)
Conductor section	0.178 mm ²
Conductor insulation material	High density polyethylene (HDPE)
Conductor insulation thickness	0.18 mm
Conductor insulation diameter	0.90 mm
Outer sheath material	LSZH нГ(A)-HF
Application	Indoor laying
Shell thickness	0.50±0.05 mm
Shell outer diameter	5.2±0.4 mm
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	110 N
Surge resistance	100±15 Ohm
Notational velocity of propagation (NVP)	69%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 2%
Signal propagation delay mismatch	Max. 45 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km
Tear force	500 N
Length	500 m / 100 m
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-20...+60°C
Type of packaging	Plywood drum
Package dimensions	325×325×280 mm
Bulk weight	30 kg

* нГ - not flammable; LS - Low Smoke; LTx - Low Toxic

Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

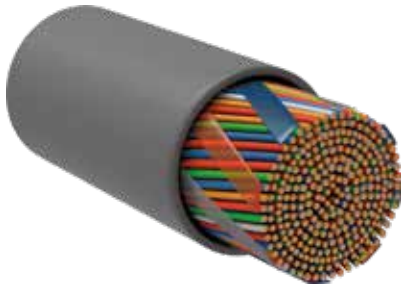
Product range

Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair U/UTP cat.5E 4×2×24 AWG PATCH LSZH нг(A)-HF grey (500 m)	5E	U/UTP	24 AWG (7×0.18 mm)	grey	LSZH нг(A)-HF	warehouse	LC2-C5E04-121
Twisted pair U/UTP cat.5E 4×2×24 AWG PATCH LSZH нг(A)-HF 1 m grey (100 m/coil)	5E	U/UTP	24 AWG (7×0.18 mm)	grey	LSZH нг(A)-HF	warehouse	LC2-C5E04-121-100

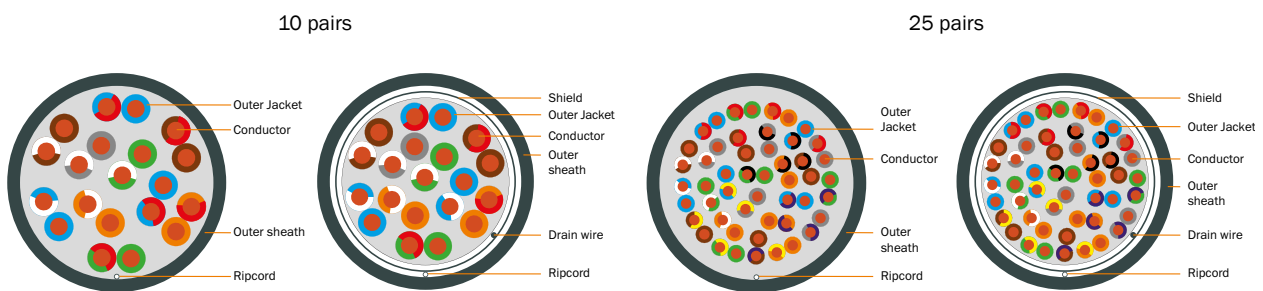
* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

Multi-pair cable U/UTP and F/UTP (SOLID)

10 and 25 pairs



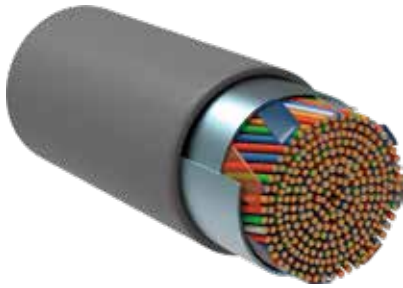
Cable view in a cross section



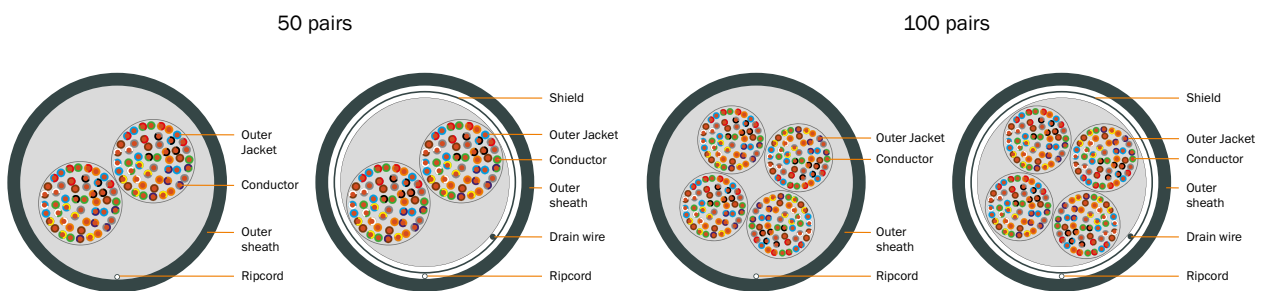
Specifications

Cable type	U/UTP	F/UTP	U/UTP	F/UTP
Q-ty of pairs	10	10	25	25
Outer cable diameter, mm	7.8 ± 0.5%	8.6 ± 0.5%	12.3 ± 0.9%	13.5 ± 1.0%
Cable outer jacket material	PVC / LSZH	PVC / LSZH	PVC / LSZH	PVC / LSZH
Cable outer jacket thickness, mm	0.5	0.5	0.5	0.5
Shield material	-	aluminum foil	-	aluminum foil
Copper conductor diameter	24 AWG	24 AWG	24 AWG	24 AWG
Conductor type	SOLID	SOLID	SOLID	SOLID
Conductor insulation material	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)
Insulation thickness, mm	0.19	0.19	0.19	0.19
Drain wire	-	yes	-	yes
Ripcord	yes	yes	yes	yes
Notational velocity of propagation (NVP), %	66	66	66	66
Signal frequency, MHz	100	100	100	100
Surge resistance, Ohm	100±15	100±15	100±15	100±15
Maximum capacity mismatch, pF/100 m	160	160	160	160
Conductor resistance at 200°C, Ohm/100 m	9.5	9.5	9.5	9.5
Signal propagation delay mismatch, ns/100 m	< 45	< 45	< 45	< 45
Minimum bending radius	10 outer diameters	10 outer diameters	10 outer diameters	10 outer diameters
Cable laying temperature, °C	-10°...+50°	-10°...+50°	-10°...+50°	-10°...+50°
Operating temperature, °C	-20°...+60°	-20°...+60°	-20°...+60°	-20°...+60°
Weight of 1 km of cable, kg	69.7	80.5	165	180
Type of packaging	Drum	Drum	Drum	Drum
Cable in a package, m	305/500	500	500	500

50 and 100 pairs



Cable view in a cross section



Specifications

Cable type	U/UTP	F/UTP	U/UTP	F/UTP
Q-ty of pairs	50	50	100	100
Outer cable diameter, mm	16.2 ± 0.8%	18 ± 0.8%	24.5 ± 1%	27.2 ± 1.0%
Cable outer jacket material	PVC / LSZH	PVC / LSZH	PVC / LSZH	PVC / LSZH
Cable outer jacket thickness, mm	1	1	1	1
Shield material	-	aluminum foil	-	aluminum foil
Copper conductor diameter	24 AWG	24 AWG	24 AWG	24 AWG
Conductor type	SOLID	SOLID	SOLID	SOLID
Conductor insulation material	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)
Insulation thickness, mm	0.2	0.25	0.2	0.25
Drain wire	-	yes	-	yes
Ripcord	yes	yes	yes	yes
Notational velocity of propagation (NVP), %	66	66	66	66
Signal frequency, MHz	100	100	100	100
Surge resistance, Ohm	100±15	100±15	100±15	100±15
Maximum capacity mismatch, pF/100 m	160	160	160	160
DC resistance of conductor at 20°C, Ohm/100 m	9.5	9.5	9.5	9.5
Signal propagation delay mismatch, ns/100 m	< 45	< 45	< 45	< 45
Minimum bending radius	10 outer diameters	10 outer diameters	10 outer diameters	10 outer diameters
Cable laying temperature, °C	-10°...+50°	-10°...+50°	-10°...+50°	-10°...+50°
Operating temperature, °C	-20°...+60°	-20°...+60°	-20°...+60°	-20°...+60°
Weight of 1 km of cable, kg	289.5	318.5	545	600
Type of packaging	Drum	Drum	Drum	Drum
Cable in a package, m	305	305	305	305

Product range

Name	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair U/UTP cat.5E 10×2×24 AWG solid PVC grey (305 m)	U/UTP	0.48 mm	grey	PVC	warehouse	LC1-C5E10-111
Twisted pair U/UTP cat. 5E 10×2×24 AWG solid LSZH hr(A)-HF grey (305 m)	U/UTP	0.48 mm	grey	LSZH hr(A)-HF	warehouse	LC1-C5E10-121
Twisted pair U/UTP cat.5E 25×2×24 AWG solid PVC grey (500 m)	U/UTP	0.48 mm	grey	PVC	warehouse	LC1-C5E25-111
Twisted pair U/UTP cat. 5E 25 pairs 25×2×24 AWG solid LSZH hr(A)-HF grey (500 m)	U/UTP	0.48 mm	grey	LSZH hr(A)-HF	warehouse	LC1-C5E25-121
Twisted pair U/UTP cat.5E 50×2×24 AWG solid PVC grey (305 m)	U/UTP	0.48 mm	grey	PVC	warehouse	LC1-C5E50-111
Twisted pair U/UTP cat. 5E 50 pairs 50×2×24 AWG solid LSZH hr(A)-HF grey (500 m)	U/UTP	0.48 mm	grey	LSZH hr(A)-HF	warehouse	LC1-C5E50-121
Twisted pair F/UTP cat.5E 10×2×24 AWG solid PVC grey (500 m)	F/UTP	0.48 mm	grey	PVC	warehouse	LC1-C5E10-311
Twisted pair F/UTP cat. 5E 10×2×24 AWG solid LSZH hr(A)-HF grey	F/UTP	0.48 mm	grey	LSZH hr(A)-HF	warehouse	LC1-C5E10-321
Twisted pair F/UTP cat.5E 25×2×24 AWG solid PVC grey (500 m)	F/UTP	0.48 mm	grey	PVC	warehouse	LC1-C5E25-311
Twisted pair F/UTP cat. 5E 25×2×24 AWG solid LSZH hr(A)-HF grey (500 m)	F/UTP	0.48 mm	grey	LSZH hr(A)-HF	warehouse	LC1-C5E25-321
Twisted pair F/UTP cat.5E 50×2×24 AWG solid PVC grey (305 m)	F/UTP	0.48 mm	grey	PVC	warehouse	LC1-C5E50-311
Twisted pair F/UTP cat. 5E 50×2×24 AWG solid LSZH hr(A)-HF grey (305 m)	F/UTP	0.48 mm	grey	LSZH hr(A)-HF	warehouse	LC1-C5E50-321

* hr – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable for outdoor laying

For the cases, when a communication cable needs to be laid outside of premises, e. g. along the outer building wall, on a roof, in a header, in a shaft, telephone conduit when building horizontal or vertical SCS subsystems and combining switching nodes, located in different buildings, it is necessary to use a cable with increased durability of outer sheath and resilient to harsh weather conditions. For such objectives and tasks ITK offers 5E and 6 categories LAN cables, working perfectly in a range 100-500 MHz and meeting cutting edge international standards.

Construction features

ITK® LAN cable for outdoor laying consists of twisted pairs, formed by two copper single-wire strands, covered with insulation made of high density polyethylene, twisted between each other with a certain length of twist. Twisted pair are protected by an outer sheath, which is made of highly durable polyethylene, halogen-free or compound (LSZH), resilient to ultra-violet radiation and temperature drops. For the cases, when the outer jacket is subjected to increased environment impact, it is manufactured using two-layer coating: outer one made of low density polyethylene, resilient to ultra-violet radiation (LDPE), and an inner one made of LSZH. For better resiliency to electromagnetic interference, a protective shield can be under an outer jacket.

Twisted pair for outdoor laying is presented by categories 5E and 6 (according to ISO/IEC 11801:2002(E) and TIA/EIA-568-B.2). Depending on a type of LAN cable, quantity of pairs under an outer jacket varies from 2 to 100, they can be additionally shielded by foil, metal tape or braiding made of metal wires.

All ITK® cables have a label indicating cable category, quantity of pairs, type and diameter of a copper conductor, as well as length tags in every meter. Twisted pair is delivered on drums per 305 m, 500 m and in coils per 100 m.

Advantages

- Increased durability of an outer sheath and resiliency to UV-radiation.
- Extended range of operating temperatures and laying temperatures.
- Applicable for networks PBX, ISDN, 10baseT, 100baseT, EIA RS 232/485, Token Ring, TB.
- Compliance with international standards
- In an operating frequency range, cable transmission characteristics of ITK® cable exceed limit values, defined by standards.
- Twisted pair conductors are made of high quality electric copper T1.
- They can be executed in outer jackets, meeting fire safety requirements.
- There is a large selection of cabling depending on customer's requirements and needs.
- Convenient and clear labeling.
- Minimum delivery time.
- GOST R and TR CU compliance certification.

Explanation of designations for LC3-C5E04-339

LC3 type of cable and laying conditions

LC3 – single-wire (SOLID) for outdoor laying

C5E cable category according to GOST R 54429 and in compliance with ISO/IEC 11801:2002(E)

C5E – 5E category cable

C6 – 6 category cable

C6A – 6A category cable

04 Quantity of pairs

01 – 1 pair

02 – 2 pairs

04 – 4 pairs

.....

100 – 100 pairs

3 – shield type:

1 – U/UTP

2 – U/FTP

3 – F/UTP

4 – F/FTP

5 – S/UTP

6 – S/FTP

7 – SF/UTP

8 – SF/FTP

3 – outer jacket:

1 – LDPE-PVC (dual)

2 – LSZH

3 – LDPE

4 – FR-PVC

5 – LDPE + steel wire 1.2 mm

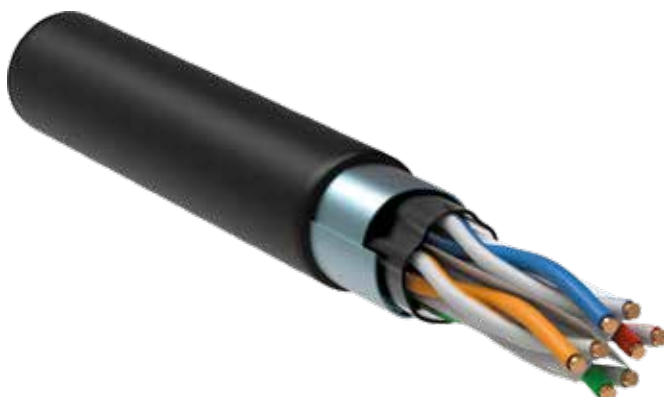
6 – LDPE + steel wire 1.5 mm

7 – LDPE + control cable 2x0.75 mm²

8 – LDPE+LSZH (dual)

9 – cable color:

9 – black



Shell color



black (9)

LAN cable of category 6 Outdoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	6	
Bandwidth	250 MHz	
Quantity of pairs	4	
Conductor material	copper	
Conductor type	Single wire (solid)	
Conductor diameter	23 AWG (0.57±0.01 mm)	
Conductor section	0.255 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.29 mm	0.23 mm
Conductor insulation diameter	1.14 mm	1.02 mm
Outer sheath material	LSZH нr(A)-HF / LDPE	
Application	for outdoor laying	
Shell thickness	0.55±0.05 mm	
Shell outer diameter	7.5±0.4 mm	6.2±0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	at least 10 diameters of a cable	
Bend radius at operation	at least 8 diameters of a cable	
Permissible tensile force	110 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	72%	69%
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.38 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 2%	
Signal propagation delay mismatch	Max. 45 ns/100 m	

* нr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Shielding type	F/UTP	U/UTP
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	600 N	
Length	305 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-60...+60°C	
Type of packaging	Plywood drum	
Package dimensions, [mm]	350×350×380	325×325×265
Bulk weight	54 kg	44.3 kg

Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.0	2.1	75.3	72.3	68.0	65.0
4.0	23.0	3.8	66.3	63.3	56.0	53.0
10.0	25.0	6.0	60.3	57.3	48.0	45.0
16.0	25.0	7.6	57.2	54.2	44.0	41.0
20.0	25.0	8.5	55.8	52.8	42.0	39.0
25.0	24.3	9.6	54.3	51.3	40.0	37.0
31.25	23.6	10.7	52.8	49.8	38.0	35.0
62.5	21.5	15.5	48.3	45.3	32.0	29.0
100.0	20.1	19.9	45.3	42.3	28.0	25.0
150.0	18.9	24.8	42.7	39.7	24.5	21.5
200.0	18.0	29.1	40.8	37.8	22.0	19.0
250.0	17.3	33.0	39.3	36.3	20.0	17.0

Product range

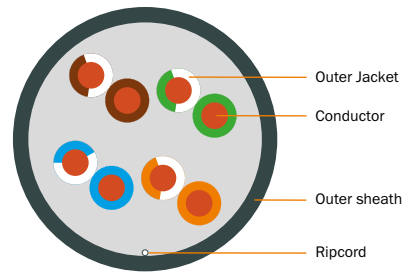
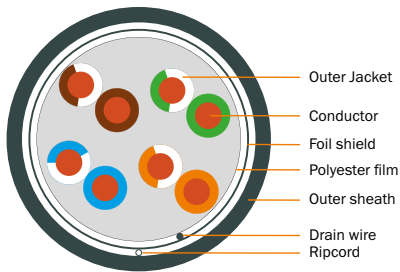
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF black (305 m)	6	F/UTP	0.57 mm	black	LSZH нг(A)-HF	warehouse	LC3-C604-329
Twisted pair F/UTP cat.6 4×2×23 AWG solid LDPE нг(A)-HF black (305 m)	6	F/UTP	0.57 mm	black	LDPE	warehouse	LC3-C604-339
Twisted pair U/UTP cat.6 4×2×23 AWG solid LSZH нг(A)-HF black (305 m)	6	U/UTP	0.57 mm	black	LSZH нг(A)-HF	warehouse	LC3-C604-129
Twisted pair U/UTP cat.6 4×2×23 AWG solid LDPE нг(A)-HF black (305 m)	6	U/UTP	0.57 mm	black	LDPE	warehouse	LC3-C604-139

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 5E Outdoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	5E	
Bandwidth	100 MHz	
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	24 AWG (0.51 0.01 mm)	
Conductor section	0.204 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.25 mm	0.20 mm
Conductor insulation diameter	0.99 mm	0.90 mm
Outer sheath material	LSZH Hr(A)-HF / LDPE	
Application	for outdoor laying	
Shell thickness	0.55±0.05 mm	0.5±0.05 mm
Shell outer diameter	6.2±0.4 mm	5.2±0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	100 N	
Surge resistance	100 ± 15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 5%	
Signal propagation delay mismatch	Max. 45 ns/100 m	

* Hr - not flammable; LS - Low Smoke; LTx - Low Toxic

Specifications

Shielding type	F/UTP	U/UTP
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	500 N	
Length	305 m / 100 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	LDPE : -60...+60°C	
Type of packaging	Plywood drum	
Package dimensions, [mm]	310×310×270	290×290×270
Bulk weight	39.4 kg	29.50 kg

Cable transmission characteristics

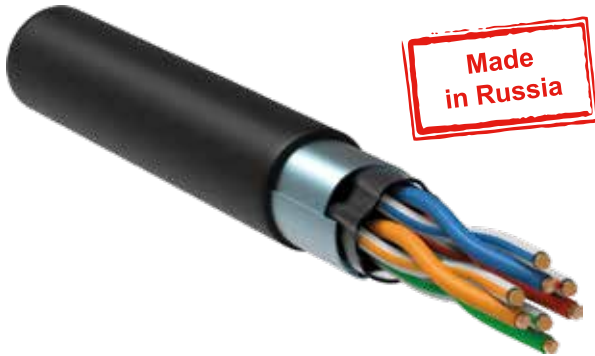
Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

Product range

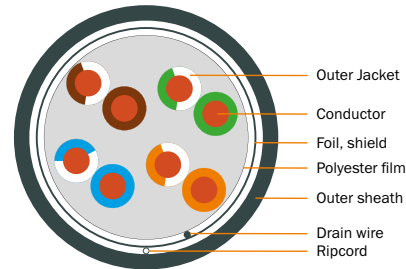
Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.5E 4×2×24 AWG solid LSZH нг(A)-HF black (305 m)	5E	F/UTP	0.51 mm	black	LSZH нг(A)-HF	warehouse	LC3-C5E04-329
Twisted pair F/UTP cat.5E 4×2×24 AWG solid LDPE нг(A)-HF black (305 m)	5E	F/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-339
Twisted pair U/UTP cat.5E 4×2×24 AWG solid LSZH нг(A)-HF black (305 m)	5E	U/UTP	0.51 mm	black	LSZH нг(A)-HF	warehouse	LC3-C5E04-129
Twisted pair U/UTP cat.5E 4×2×24 AWG solid LDPE black (305 m)	5E	U/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-139
Twisted pair U/UTP cat.5E 4×2×24 AWG solid LDPE 1 m black (100 m/coil)	5E	U/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-139-100

* нг – not flammable; LS – Low Smoke; LTx – Low Toxic

LAN cable of category 5E Outdoor laying



Cable view in a cross section



Specifications

Conductor diameter	0.51 mm
Conductor nominal cross-section	0.204 mm ²
Conductor class	Class 1 (single-wire strand)
Quantity of strands	4×2
Stranding element	Paired
Strand insulation	Solid polyethylene
Strand labeling	Color
Stranding surface shield	Foil
Outer sheath material	LDPE
Outer sheath color	Black
Category	5E
NVP indicator	69%
Conductor material	Copper
Outer cable diameter	6.5±0.5 mm
Mounting temperature	-10...+50°C
Operating temperature	-40...+60°C
Insulation resistance	5000 MOhms
Maximum DC resistance on 100 m and + 20°C, not more than	9.5 Ohm
Surge resistance	100±15 Ohm
Nominal bitrate	69%
Signal frequency	100 MHz
Operating voltage	≤ 48 V
Cable length	305 m
Max. capacity mismatch, pF per 100 m	160

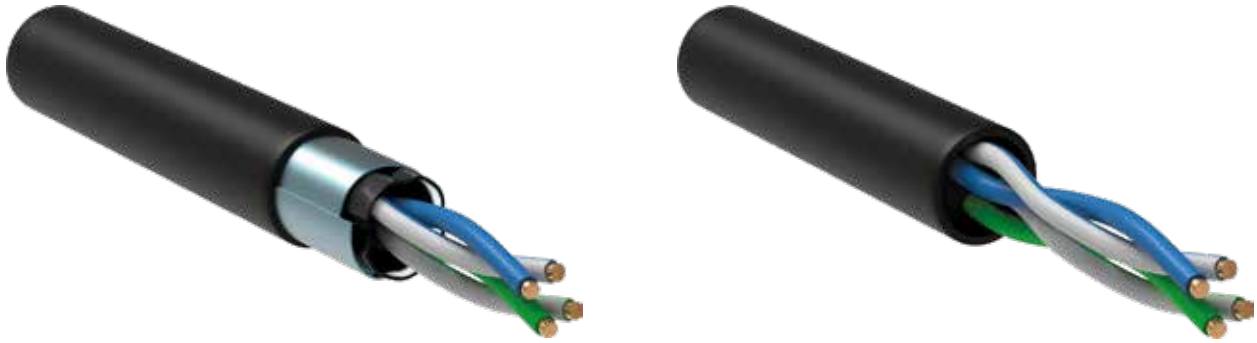
Cable transmission characteristics

Article	Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
				Next	Psnext	Elfext	Pselfxt
LC3-C5E04-139-R	1.0	20.8	2.1	69.9	66.7	65.3	62.2
LC3-C5E04-339-R	4.0	23.9	4.1	60.2	57.0	53.0	50.0
LC3-C5E04-139-P-R	1.0	21.5	2.1	70.3	67.3	66.9	63.0
LC3-C5E04-339-P-R	4.0	23.5	4.0	61.3	58.3	54.6	51.0

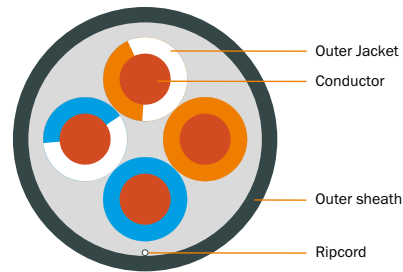
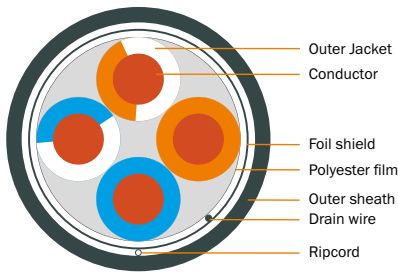
Product range

Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair U/UTP 5E 4×2×24 AWG solid LDPE black (305 m) RF	5E	U/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-139-R
Twisted pair F/UTP 5E 4×2×24 AWG solid LDPE black (305 m) RF	5E	F/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-339-R
Twisted pair U/UTP 5E 4×2×0,52 solid LDPE black (305 m) RF	5E	U/UTP	0.52 mm	black	LDPE	custom	LC3-C5E04-139-P-R
Twisted pair F/UTP 5E 4×2×0,52 solid LDPE black (305 m) RF	5E	F/UTP	0.52 mm	black	LDPE	custom	LC3-C5E04-339-P-R

LAN cable of category 5E Outdoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	5E	
Bandwidth	100 MHz	
Quantity of pairs	2	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	24 AWG (0.51±0.01 mm)	
Conductor section	0.204 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.25 mm	0.20 mm
Conductor insulation diameter	0.99 mm	0.90 mm
Outer sheath material	LDPE	
Application	For outdoor laying	
Shell thickness	0.50±0.05 mm	
Shell outer diameter	4.2±0.4 mm	4±0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	100 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 5%	
Signal propagation delay mismatch	Max. 45 ns/100 m	

Specifications

Shielding type	F/UTP	U/UTP
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	500 N	
Length	500 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-60...+60°C	
Type of packaging	Plywood drum	
Package dimensions, \boxtimes	310×310×390	310×310×250
Bulk weight	41 kg	29.5 kg

Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

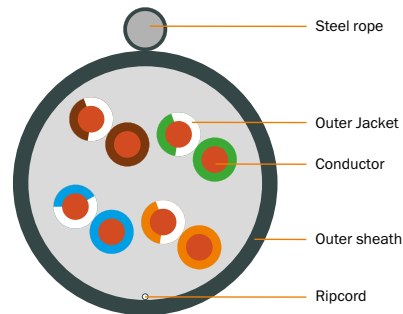
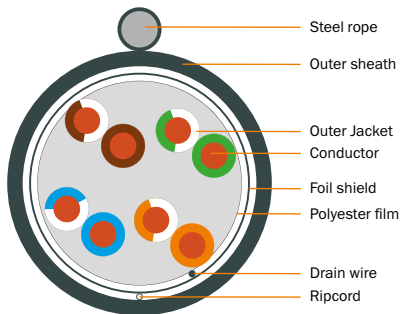
Product range

Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.5E 2×2×24 AWG solid LDPE black (500 m)	5E	F/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E02-339
Twisted pair U/UTP cat.5E 2×2×24 AWG solid PVC black (500 m)	5E	U/UTP	0.51 mm	black	LDPE	custom	LC3-C5E02-139

LAN cable of category 5E with a steel wire Outdoor laying



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	5E	
Bandwidth	100 MHz	
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	24 AWG (0.51±0.01 mm)	
Conductor section	0.204 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.25 mm	0.20 mm
Conductor insulation diameter	0.99 mm	0.90 mm
Outer sheath material	LDPE	
Application	For outdoor laying	
Shell thickness	0.55±0.05 mm	0.5±0.05 mm
Shell outer diameter	6.2±0.4 mm	5.2±0.4 mm
Dimensions of a communications cable with a steel wire, mm	6.2×9.0	5.2×8.0
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	100 N	
Surge resistance	100±15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m	
DC resistance asymmetry of a single pair strands	Max. 5%	

Specifications

Shielding type	F/UTP	U/UTP
Signal propagation delay mismatch	Max. 45 ns/100 m	
Strand insulation resistance	Min. 5 GOhm-km	
Tear force	1550 N	
Length	305 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-60...+60 °C	
Type of packaging	Plywood drum	
Diameter of wire, mm	1.2	
Wire material	steel	
Package dimensions, \boxtimes	350×350×290 mm	330×330×270
Bulk weight	65.6 kg	55.8 kg

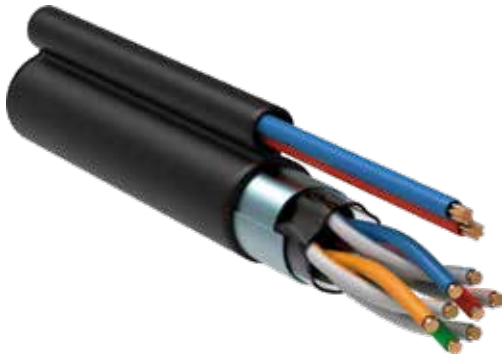
Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

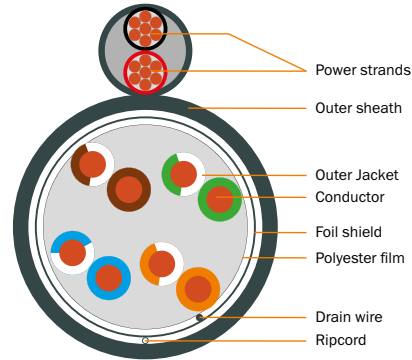
Product range

Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.5E 4×2×24 AWG solid LDPE with metal wire 1.2 mm black (305 m)	5E	F/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-359
Twisted pair U/UTP cat.5E 4×2×24 AWG solid LDPE with metal wire 1.2 mm black (305 m)	5E	U/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-159

LAN cable of category 5E with a power cable Outdoor laying



Cable view in a cross section



Specifications

Category	5E
Bandwidth	100 MHz
Shielding type	F/UTP
Quantity of pairs	4
Conductor material	Copper
Conductor type	Single wire (solid)
Conductor diameter	24 AWG (0.51±0.01 mm)
Conductor section	0.204 mm ²
Conductor insulation material	High density polyethylene (HDPE)
Conductor insulation thickness	0.25 mm
Conductor insulation diameter	0.99 mm
Outer sheath material	LDPE
Application	For outdoor laying
Shell thickness	0.55±0.05 mm
Shell outer diameter	6.2±0.4 mm
Dimensions of a communications cable with a steel wire	6.2x13.0 mm
General shield construction	Polyester aluminum foil
Quantity of control strands	2
Control strands section	0.75 mm ²
Conductor quantity/diameter	24 × 0.195 mm
Color coding	Black and red
Operating voltage	Up to 250 V
DC resistance of control strands at 20°C	Max. 26 Ohm/km
Drain conductor	Yes
Ripcord	Yes
Bend radius at laying	At least 10 diameters of a cable
Bend radius at operation	At least 8 diameters of a cable
Permissible tensile force	100 N
Surge resistance	100 ± 15 Ohm
Notational velocity of propagation (NVP)	69%
Maximum capacity mismatch	160 pF/100 m
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m
DC resistance asymmetry of a single pair strands	Max. 5%

Specifications

Signal propagation delay mismatch	Max. 45 ns/100 m
Strand insulation resistance	Min. 5 GOhm·km
Tear force	1550 N
Length	305 m
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006
Temperature range	-60...+60°C
Type of packaging	Plywood drum
Diameter of a wire	1.2 mm
Package dimensions	400×400×330 mm
Bulk weight	78.8 kg

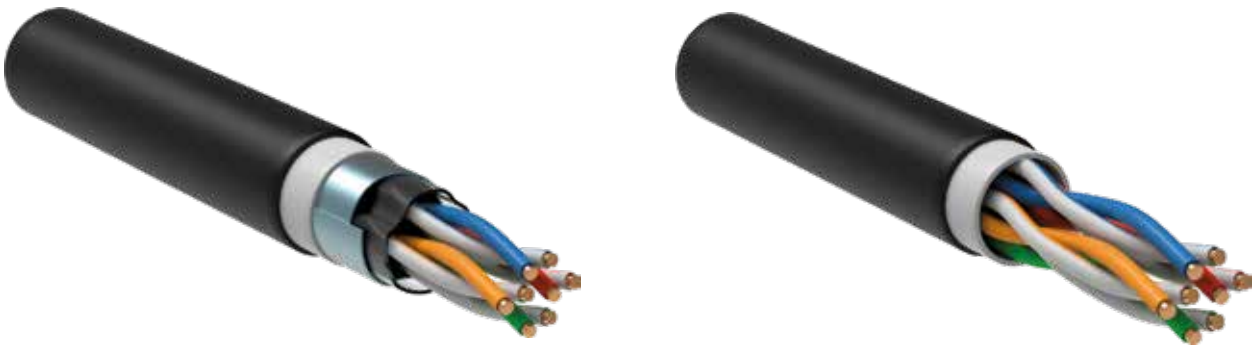
Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

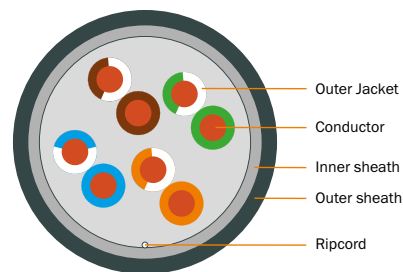
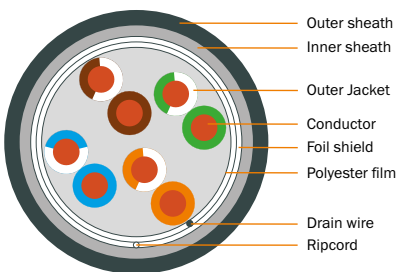
Product range

Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.5E 4×2×24 AWG solid LDPE + power cable 2×0.75 mm ² 305 m black	5E	F/UTP	0.51 mm	black	LDPE	warehouse	LC3-C5E04-379

LAN cable of category 5E in dual outer jacket For outdoor laying and inlet into a building



Cable view in a cross section



Specifications

Shielding type	F/UTP	U/UTP
Category	5E	
Bandwidth	100 MHz	
Quantity of pairs	4	
Conductor material	Copper	
Conductor type	Single wire (solid)	
Conductor diameter	24 AWG (0.51 ± 0.01 mm)	
Conductor section	0.204 mm ²	
Conductor insulation material	High density polyethylene (HDPE)	
Conductor insulation thickness	0.25 mm	0.20 mm
Conductor insulation diameter	0.99 mm	0.90 mm
Outer sheath material	Inner LSZH nr(A)-HF Outer LDPE	
Application	For outdoor laying	
Shell thickness	0.55 ± 0.05 mm 0.55 ± 0.05 mm	0.5 ± 0.05 mm 0.5 ± 0.05 mm
Shell outer diameter	7.4 ± 0.4 mm	6.2 ± 0.4 mm
General shield construction	Polyester aluminum foil	-
Drain conductor	Yes	-
Ripcord	Yes	
Bend radius at laying	At least 10 diameters of a cable	
Bend radius at operation	At least 8 diameters of a cable	
Permissible tensile force	100 N	
Surge resistance	100 ± 15 Ohm	
Notational velocity of propagation (NVP)	69%	
Maximum capacity mismatch	160 pF/100 m	
DC resistance of conductor at 20°C	Max. 9.5 Ohm/100 m	

Specifications

Shielding type	F/UTP	U/UTP
DC resistance asymmetry of a single pair strands	Max. 5%	
Signal propagation delay mismatch	Max. 45 ns/100 m	
Strand insulation resistance	Min. 5 GOhm·km	
Tear force	600 N	
Length	305 m	
Standard compliance	GOST R 54429, ISO/IEC 11801, TIA/EIA 568-C.2 EN50173 RoHS 2011/65/EU REACH EC 1907/2006	
Temperature range	-60...+60°C	
Type of packaging	Plywood drum	
Package dimensions, \boxtimes	340×340×310	330×330×270
Bulk weight	52.5 kg	42.6 kg

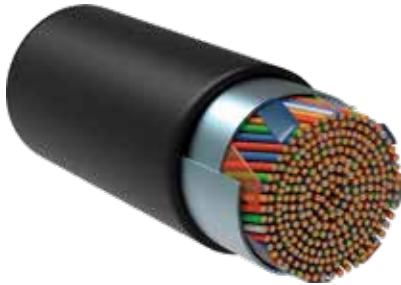
Cable transmission characteristics

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1.0	20.8	2.1	69.9	66.7	65.3	62.2
4.0	23.9	4.1	60.2	57.0	53.0	50.0
10.0	26.0	6.5	53.8	50.6	44.9	41.8
20.0	26.0	9.3	49.0	45.8	38.8	35.7
31.25	24.5	11.7	45.9	42.7	34.8	31.7
62.5	22.4	17.0	41.1	37.9	28.7	25.5
100.0	20.9	22.0	37.8	34.6	24.5	21.4

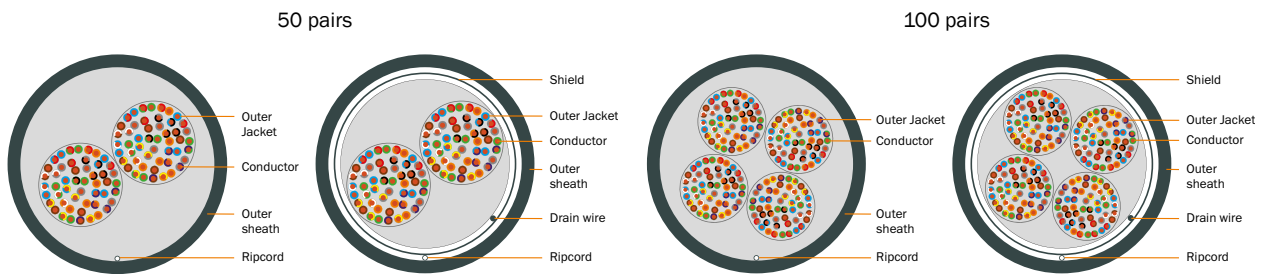
Product range

Name	Category	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair F/UTP cat.5E 4×2×24 AWG solid dual outer jacket LSZH/LDPE black	5E	F/UTP	0.51 mm	black	Dual LSZH hr(A)-HF and LDPE	warehouse	LC3-C5E04-389
Twisted pair U/UTP cat.5E 4×2×24 AWG solid dual outer jacket LSZH/LDPE black	5E	U/UTP	0.51 mm	black	Dual LSZH hr(A)-HF and LDPE	warehouse	LC3-C5E04-189

50 and 100 pairs



Cable view in a cross section



Specifications

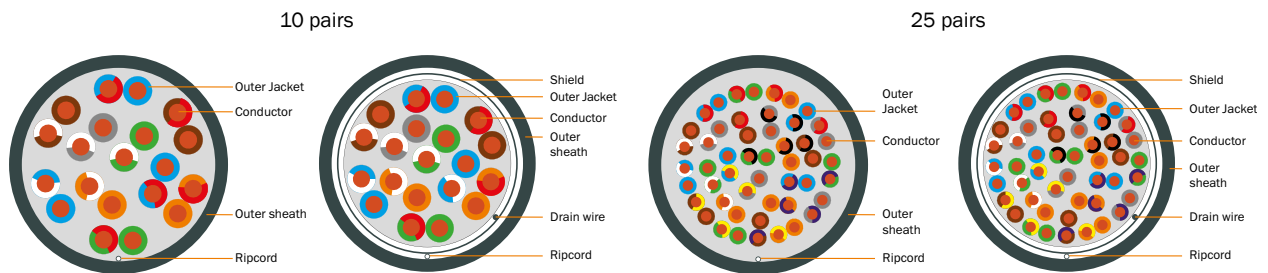
Cable type	U/UTP	F/UTP	U/UTP	F/UTP
Q-ty of pairs	50	50	100	100
Outer cable diameter, mm	16.2 ± 0.8%	18 ± 0.8%	24.5 ± 1%	27.2 ± 1.0%
Cable outer jacket material	LDPE / LSZH	LDPE / LSZH	LDPE / LSZH	LDPE / LSZH
Cable outer jacket thickness, mm	1	1	1	1
Shield material	-	aluminum foil	-	aluminum foil
Copper conductor diameter	24 AWG	24 AWG	24 AWG	24 AWG
Conductor type	SOLID	SOLID	SOLID	SOLID
Conductor insulation material	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)
Insulation thickness, mm	0.2	0.25	0.2	0.25
Drain wire	-	yes	-	yes
Ripcord	yes	yes	yes	yes
Notational velocity of propagation (NVP), %	66	66	66	66
Signal frequency, MHz	100	100	100	100
Surge resistance, Ohm	100 ± 15	100 ± 15	100 ± 15	100 ± 15
Maximum capacity mismatch, pF/100 m	160	160	160	160
Conductor resistance at 20°C, Ohm/100 m	9.5	9.5	9.5	9.5
Signal propagation delay mismatch, ns/100 m	< 45	< 45	< 45	< 45
Minimum bending radius	10 outer diameters	10 outer diameters	10 outer diameters	10 outer diameters
Cable laying temperature, °C	-10° ... +60°	-10° ... +60°	-10° ... +60°	-10° ... +60°
Operating temperature, °C	-60° ... +60°	-60° ... +60°	-60° ... +60°	-60° ... +60°
Weight of 1 km of cable, kg	261.5	287.7	505	556
Type of packaging	Drum	Drum	Drum	Drum
Cable in a package, m	305	305	305	305

LAN cable multiwire Outdoor laying

10 and 25 pairs



Cable view in a cross section



Specifications

Cable type	U/UTP	F/UTP	U/UTP	F/UTP
Q-ty of pairs	10	10	25	25
Outer cable diameter, mm	7.8 ± 0.5%	8.6 ± 0.5%	12.3 ± 0.9%	13.5 ± 1.0%
Cable outer jacket material	LDPE	LDPE	LDPE	LDPE
Cable outer jacket thickness, mm	0.5	0.5	0.5	0.5
Shield material	-	aluminum foil	-	aluminum foil
Copper conductor diameter	24 AWG	24 AWG	24 AWG	24 AWG
Conductor type	SOLID	SOLID	SOLID	SOLID
Conductor insulation material	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)	High density polyethylene (HDPE)
Insulation thickness, mm	0.2	0.2	0.2	0.2
Drain wire	-	yes	-	yes
Ripcord	yes	yes	yes	yes
Notational velocity of propagation (NVP), %	66	66	66	66
Signal frequency, MHz	100	100	100	100
Surge resistance, Ohm	100 ± 15	100 ± 15	100 ± 15	100 ± 15
Maximum capacity mismatch, pF/100 m	160	160	160	160
Conductor resistance at 20°C, Ohm/100 m	9.5	9.5	9.5	9.5
Signal propagation delay mismatch, ns/100 m	< 45	< 45	< 45	< 45
Minimum bending radius	10 outer diameters	10 outer diameters	10 outer diameters	10 outer diameters
Cable laying temperature, °C	-10° ... +50°	-10° ... +50°	-10° ... +50°	-10° ... +50°
Operating temperature, °C	-60° ... +60°	-60° ... +60°	-60° ... +60°	-60° ... +60°
Weight of 1 km of cable, kg	69.7	80.5	165	180
Type of packaging	Drum	Drum	Drum	Drum
Cable in a package, m	305	305	305	305

Product range

Name	Display type	Conductor diameter	Shell color	Shell material	Status	Article
Twisted pair U/UTP cat.5E 10×2×24 AWG solid LDPE black (305 m)	U/UTP	0.48 mm	black	LDPE	warehouse	LC3-C5E10-139
Twisted pair U/UTP cat.5E 25×2×24 AWG solid LDPE black (305 m)	U/UTP	0.48 mm	black	LDPE	warehouse	LC3-C5E25-139
Twisted pair U/UTP cat.5E 50×2×24 AWG solid LDPE black (305 m)	U/UTP	0.48 mm	black	LDPE	warehouse	LC3-C5E50-139
Twisted pair F/UTP cat.5E 10×2×24 AWG solid LDPE black	F/UTP	0.48 mm	black	LDPE	warehouse	LC3-C5E10-339
Twisted pair F/UTP cat.5E 25×2×24 AWG solid LDPE black (305 m)	F/UTP	0.48 mm	black	LDPE	warehouse	LC3-C5E25-339
Twisted pair F/UTP cat.5E 50×2×24 AWG solid LDPE black (305 m)	F/UTP	0.48 mm	black	LDPE	warehouse	LC3-C5E50-339

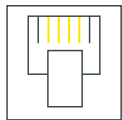
Cable connectors

For high quality and reliable switching of all cables with equipment, sockets, modules and other kinds of connections, ITK produces RJ-11, RJ-12, RJ-45, BNC, PAL connectors and protective caps for them. All connectors perfectly fit with majority of networks and are compatible with equipment for SCS and cables by other manufacturers.

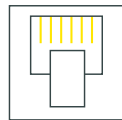
Advantages

- ITK® connectors are designed for operation in a broad range of temperatures.
- They are made of high quality materials and metals with high conductivity.
- Applicable for networks PBX, ISDN, 10baseT, 100baseT, EIA RS 232/485, Token Ring, TB.
- They are regularly checked and tested on the company's plants.
- Construction and technical parameters meet requirements of international standards.
- There is a large selection of connectors depending on requirements and types of cables.
- They are compatible with all kinds of crimping tool by ITK® and other manufacturers.
- They provide high transmission rate.

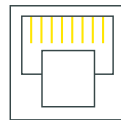
Module connectors schemes



6P4C



6P6C



8P8C

RJ-45 connectors for dressing in field conditions



Specifications

- | | |
|--|--|
| • Connector enclosure | polycarbonate |
| • Enclosure shielding | nickel-plated zinc, cast enclosure |
| • RJ-45 contacts | phosphorus bronze with gold sputtering 1.27 μm (50 μ") on top of 2.54 μm (100 μ") nickel plating |
| • Insulation displacement contacts (IDC) | phosphorus bronze with coating 2.54 μm (100 μ") of pewter |
| • Printed circuit board (PCB) | fiberglass (FR-4) |

These connectors provide quick and reliable termination of cables, that consequently can be directly (without a socket) connected to Wi-Fi access points, video cameras, lighting systems, distribution antenna systems (DAS), building automation devices and different IP- and PoE-devices, applied in modern high capacity networks.

Connectors meet requirements of 6 and 6A categories and are suitable both for unshielded and shielded cables with single-wire and multi-wire strands.

Product range

Name	Shield availability	Category	Article
Connector RJ-45 UTP for cable of cat. 6 field termination	none	6	CS3-1C06U-Q
Connector RJ-45 ATP for cable of cat. 6 field termination	yes	6	CS3-1C06F-Q
Connector RJ-45 ATP for cable of cat. 6A field termination	yes	6A	CS3-1C6AF-Q

Unshielded RJ-45 connectors



Specifications

- Connector type RJ-45
- Cable category cat.5E, cat.6/BBA
- Contacts configuration 8P8C
- Purpose Data transmission networks, computer networks
- Enclosure material transparent polycarbonate
- Contacts material copper base alloy with gold sputtering
- Thickness of gold sputtering on contacts 0,5 μ m
- Construction type with inserts
- Packaging polyethylene bag (20 pcs.)

Product range

Name	Insert	Contacts configuration	Article
Connector RJ-45 UTP cat.5E	7A	8P8C	CS3-1C5EU
Connector RJ-45 UTP cat.6	7A	8P8C	CS3-1C6U

Connectors RJ-45 shielded



Specifications

- Connector type RJ-45
- Cable category cat.5E, cat.6/BBA
- Contacts configuration 8P8C
- Purpose data transmission networks, computer networks
- Enclosure material transparent polycarbonate
- Contacts material copper base alloy with gold sputtering
- Thickness of gold sputtering on contacts 0,5 μ m
- Shield allow of copper, nickel
- Construction type with inserts
- Packaging polyethylene bag (20 pcs.)

Product range

Name	Type of a crimped cable	Insert	Contacts configuration	Article
Connector RJ-45 FTP for BBA cable	Solid	7A	8P8C	CS3-1C5EF-BC
Connector RJ-45 FTP cat.5E	Solid/Patch	7A	8P8C	CS3-1C5EF
Connector RJ-45 FTP for SOLID cable cat.6	Patch	7A	8P8C	CS3-1C6FS
Connector RJ-45 FTP for cat.6	Solid	7A	8P8C	CS3-1C6EFS

Connectors RJ-45 FPS



Specifications

- Connector type RJ-45
- Cable category cat. 5E / cat. 6
- Contacts configuration 8P8C
- Purpose data transmission networks
computer networks
- Enclosure material plastic
- Contacts material bronze with gold sputtering
- Packaging polyethylene bag (100 pcs.)

Product range

Name	Contacts configuration	Category of a crimped cabled	Article
Connector RJ-45 UTP for cable of cat. 5E FPS	8P8C	5E	CS3-1C5EU-FPS
Connector RJ-45 UTP for cable of cat. 6 FPS	8P8C	6	CS3-1C06U-FPS

Connectors RJ-11 and RJ-12



Specifications

- Connector type RJ-12, RJ-11
- Configurations of contacts 4P4C, 6P4C, 6P6C
- Purpose telephone networks
- Enclosure material transparent polycarbonate
- Contacts material copper base alloy with gold sputtering
- Packaging polyethylene bag (20 pcs.)

Product range

Name	Contacts configuration	Article
Connector RJ12 cat.3	6P6C	CS3-1C3U
Connector RJ12 cat.3	6P4C	CS3-2C3U

Insulating caps



Specifications

- Cap type RJ-45
- Cable category cat.3, 5E, 6
- Purpose protecting connections on a cable with connectors RJ-45
- Material fire-resistant polypropylene
- Color red, green, blue
red, yellow
- Packaging polyethylene bag (20 pcs.)

Product range

Name	Type	Color	Article
Insulating cap for a connector RJ-45, PVC, grey	RJ-45	grey	CS4-11
Insulating cap for a connector RJ-45, PVC, green	RJ-45	green	CS4-12
Insulating cap for a connector RJ-45, PVC, blue	RJ-45	blue	CS4-13
Insulating cap for a connector RJ-45, PVC, red	RJ-45	red	CS4-14
Insulating cap for a connector RJ-45, PVC, yellow	RJ-45	yellow	CS4-15



TELECOMMUNICATIONS EQUIPMENT

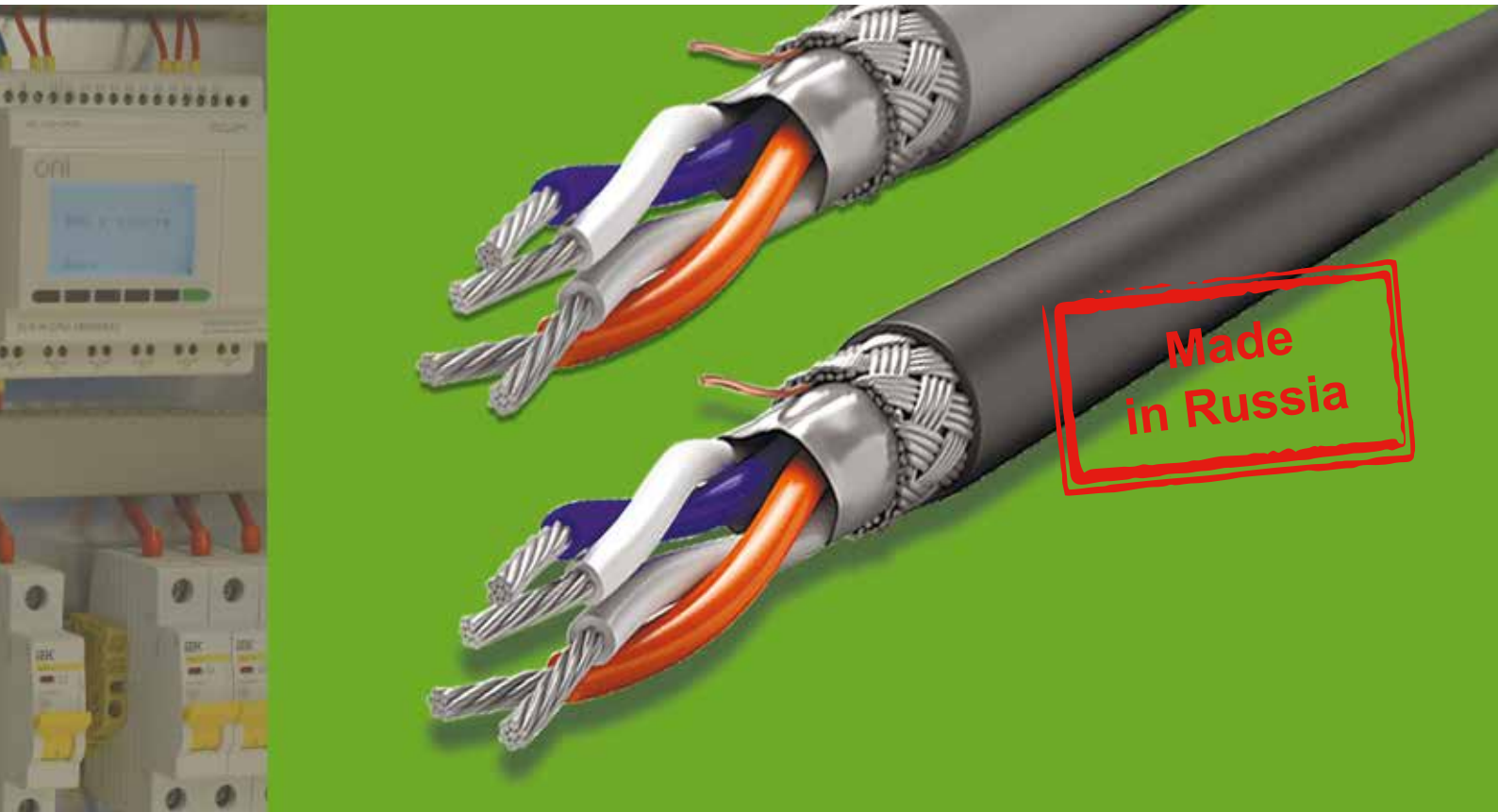
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Interface Cable

ITK RS-485



Specialized interface cables are designed for high speed data transfer and reception in industry networks of CAPCS (Computer-Aided Process Control System), built based on interfaces (protocols) RS-485, CAN, “4-20 mA”, HART, Profibus and others, for operating voltage up to 300 V. The cables are flexible and have copper tinned strands.

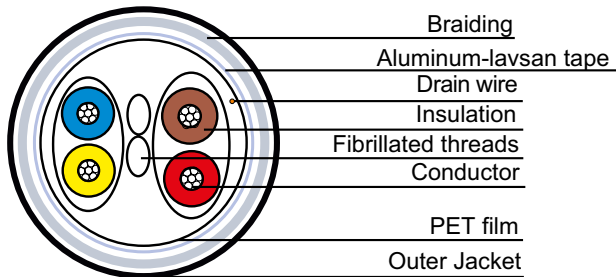
Shielded cables are applied in buildings and structures with higher level of electromagnetic interference. Dual shield consists of aluminum foil with additional braiding made of copper tinned wires.

Surge resistance – 120 Ohm

Interface cable RS-485



Cable view in a cross section



Scope of application:

- for data collection and transmission systems, applying RS-485 industrial interface, according to standards ISO/IEC 8482, TIA/EIA RS-485-A;
- flexible cables are applied for laying in inaccessible places with a small bending radius;
- shielded cables are applied in buildings and structures with higher level of electromagnetic interference.

Cables with нг(A)-LS index are applied in indoor electrical installations, production premises, enclosed cable structures, etc.

Cables with нг(A)-HF index are laid in multifunctional buildings, building complexes and structures with mass presence of people, etc.

Construction features

Conductor:

- multi-wire copper tinned strands 0.6 mm (7×0.20 mm) diameter;
- multi-wire copper tinned strands 0.78 mm (7×0.26 mm) diameter;

Insulation:

- solid polyethylene (PE);
- foamed polyethylene.

Shield: aluminum-lavsan tape with contact conductor and braiding made of copper tinned wires.

Shell:

- нг(A)-LS – flexible PVC compound with low smoke and gas release;
- нг(A)-HF – halogen-free polymer compound (LSZH).

Shell color:

- нг(A)-LS – grey, for indoors and outdoors operation (if protected against solar radiation and atmospheric precipitation);
- нг(A)-HF – black, for laying indoors and outdoors (open air, protection against ultra-violet).

Main Features:

- non-flame retardent in case of bunch laying;
- minimum bending radius – $8 \times D_n$, where D_n – outer cable size;
- flexible, with multi-wire strand;
- shielded;
- cables with нг(A)-HF index for outdoor laying with black outer jacket.

ITK Cable RS-485 КГнГ(A)-LS Nx2x0,6, ITK Cable RS-485 КГнГ(A)-HF Nx2x0,6, outer jacket – solid polyethylene (PE)

Electric parameters

Strand electric DC resistance at +20°C, max., Ohm/km	90
Strand insulation resistance at +20°C, min., MOhm·km	500
Surge resistance at frequency 1 MHz, Ohm	120 ±15
Electric capacity of a pair, max., pF/m	42
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.1
Electric DC resistance asymmetry of strands in a pair, max., %	3
Operating voltage, max., V	300

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Quantity of pairs	1	2	3	4
D _H	6.0	7.7	8.7	9.6
m	52	78	93	111

ITK Cable RS-485 КГнГ(A)-LS Nx2x0,78, ITK Cable RS-485 КГнГ(A)-HF Nx2x0,78, outer jacket – foamed polyethylene

Electric parameters

Strand electric DC resistance at +20°C, max., Ohm/km	90
Strand insulation resistance at +20°C, min., MOhm·km	500
Surge resistance at frequency 1 MHz, Ohm	120±15
Electric capacity of a pair, max., nF/km	42
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.1
Electric DC resistance asymmetry of strands in a pair, max., %	3
Operating voltage, max., V	300

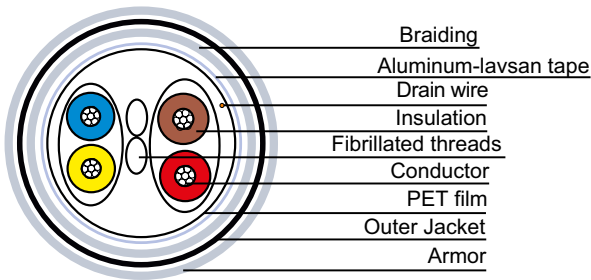
Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Quantity of pairs	1	2	3	4
D _H	6.0	7.7	8.7	9.6
m	52	78	93	111

RS-485 interface armor cable



Cable view in a cross section



Scope of application:

- for data collection and transmission systems, applying RS-485 industrial interface, according to standards ISO/IEC 8482, TIA/EIA RS-485-A;
- shielded cables are applied in buildings and structures with higher level of electromagnetic interference;
- shielded cables are protected against external mechanical impact, including by gnawing animals.

Cables with нг(А)-LS index are applied in indoor electrical installations, production premises, enclosed cable structures, etc.

Cables with нг(А)-HF index are laid in multifunctional buildings, building complexes and structures with mass presence of people, etc.

Construction features

Conductor:

- multi-wire copper tinned strands 0.6 mm (7×0.20 mm) diameter;
- multi-wire copper tinned strands 0.78 mm (7×0.26 mm) diameter.

Insulation:

- solid polyethylene (PE);
- foamed polyethylene.

Shield: aluminum-lavsan tape with contact conductor and braiding made of copper tinned wires.

Shell:

- нг(А)-LS – flexible PVC compound with low smoke and gas release;
- нг(А)-HF – halogen-free polymer compound (LSZH).

Shell color:

- нг(А)-LS – grey, for indoors and outdoors operation (if protected against solar radiation and atmospheric precipitation);
- нг(А)-HF – black, for indoors and outdoors operation (if protected against solar radiation and atmospheric precipitation).

Armor: made of steel zinc-plated wires.

Main Features:

- non-flame retardent in case of bunch laying;
- minimum bending radius – $10 \times D_{\text{H}}$, where D_{H} – outer cable size;
- flexible, with multi-wire strand;
- shielded;
- armored.

ITK Cable RS-485 КГнГ(A)-LS Nx2x0,6, ITK Cable RS-485 КГнГ(A)-HF Nx2x0,6, outer jacket – solid polyethylene (PE)

Electric parameters

Strand electric DC resistance at +20°C, max., Ohm/km	90
Strand insulation resistance at +20°C, min., MOhm·km	500
Surge resistance at frequency 1 MHz, Ohm	120 ±15
Electric capacity of a pair, max., pF/m	42
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.1
Electric DC resistance asymmetry of strands in a pair, max., %	3
Operating voltage, max., V	300

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Quantity of pairs	1	2	3	4
D _n	7.2	8.9	9.9	10.8
m	96	133	155	179

ITK Cable RS-485 КГнГ(A)-LS Nx2x0,78, ITK Cable RS-485 КГнГ(A)-HF Nx2x0,78, outer jacket – foamed polyethylene

Electric parameters

Strand electric DC resistance at +20°C, max., Ohm/km	58.7
Strand insulation resistance at +20°C, min., MOhm·km	500
Surge resistance at frequency 1 MHz, Ohm	120 ±15
Electric capacity of a pair, max., nF/km	32
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	1.65
Electric DC resistance asymmetry of strands in a pair, max., %	3
Operating voltage, max., V	300

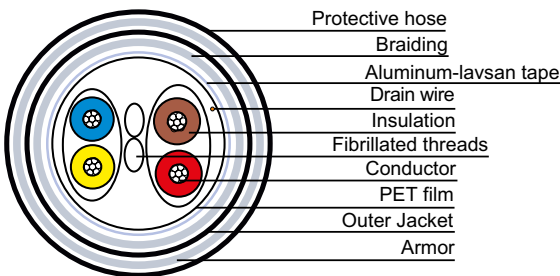
Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Quantity of pairs	1	2	3	4
D _n	7.6	9.4	10.5	11.6
m	105	148	175	204

RS-485 interface armor cable with a protective hose



Cable view in a cross section



Scope of application:

- for data collection and transmission systems, applying RS-485 industrial interface, according to standards ISO/IEC 8482, TIA/EIA RS-485-A;
- flexible cables are applied for laying in inaccessible places with a small bending radius;
- shielded cables are applied in buildings and structures with higher level of electromagnetic interference;
- shielded cables are protected against external mechanical impact, including by gnawing animals; can be laid in soil of categories I-III.

Cables with нr(A)-LS index are applied in indoor electrical installations, production premises, enclosed cable structures, etc.

Cables with нr(A)-HF index are laid in multifunctional buildings, building complexes and structures with mass presence of people, etc.

Construction features

Conductor:

- multi-wire copper tinned strands 0.6 mm (7×0.20 mm) diameter;
- multi-wire copper tinned strands 0.78 mm (7×0.26 mm) diameter.

Insulation:

- solid polyethylene (PE);
- foamed polyethylene.

Shield: aluminum-lavsan tape with contact conductor and braiding made of copper tinned wires.

Shell and protective hose (on top of armor):

- нr(A)-LS – flexible PVC compound with low smoke and gas release;
- нr(A)-HF – halogen-free polymer compound (LSZH).

Shell color:

- нr(A)-LS – grey, for indoors and outdoors operation (if protected against solar radiation and atmospheric precipitation);
- нr(A)-HF – black, for laying indoors and outdoors (open air, protection against ultra-violet).

Armor: made of steel zinc-plated wires.

Main Features:

- non-flame retardant in case of bunch laying;
- minimum bending radius – $10 \times D_n$, where D_n – outer cable size;
- flexible, with multi-wire strand;
- shielded;
- armored;
- cables with нr(A)-HF index for outdoor laying with black outer jacket.

ITK Cable RS-485 КнГ(A)-LS Nx2x0,6, ITK Cable RS-485 КнГ(A)-HF Nx2x0,6, outer jacket – solid polyethylene (PE)

Electric parameters

Strand electric DC resistance at +20°C, max., Ohm/km	90
Strand insulation resistance at +20°C, min., MOhm·km	500
Surge resistance at frequency 1 MHz, Ohm	120 ±15
Electric capacity of a pair, max., pF/m	42
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.1
Electric DC resistance asymmetry of strands in a pair, max., %	3
Operating voltage, max., V	300

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Quantity of pairs	1	2	3	4
D _n	9.6	11.3	12.3	13.2
m	150	198	225	255

ITK Cable RS-485 КнГ(A)-LS Nx2x0,78, ITK Cable RS-485 КнГ(A)-HF Nx2x0,78, outer jacket – foamed polyethylene

Electric parameters

Strand electric DC resistance at +20°C, max., Ohm/km	58.7
Strand insulation resistance at +20°C, min., MOhm·km	500
Surge resistance at frequency 1 MHz, Ohm	120 ±15
Electric capacity of a pair, max., nF/km	32
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	1.65
Electric DC resistance asymmetry of strands in a pair, max., %	3
Operating voltage, max., V	300

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Quantity of pairs	1	2	3	4
D _n	10.0	11.8	12.9	14.0
m	161	216	249	285

* нГ – not flammable

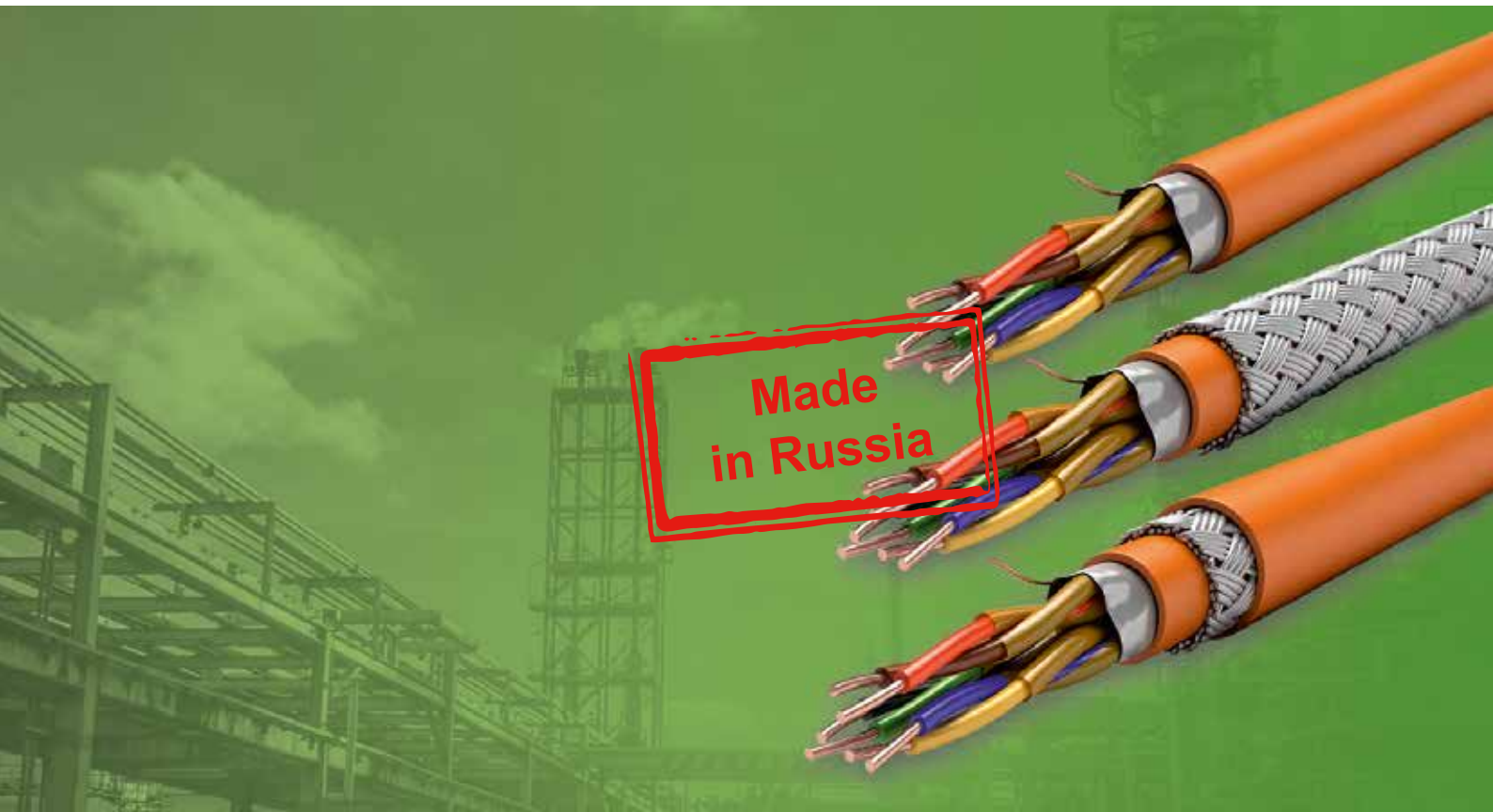
Product range

Name	Shell	Operating temperature	Mounting temperature	Service life	Fire safety category according to GOST 31565-2012	Article
ITK Cable RS-485 1x2x0.6 нГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-01-SF-2101
ITK Cable RS-485 2x2x0.6 нГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-02-SF-2101
ITK Cable RS-485 1x2x0.6 нГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-01-SF-2209
ITK Cable RS-485 2x2x0.6 нГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-02-SF-2209
ITK Cable RS-485 1x2x0.78 нГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-01-SF-4101
ITK Cable RS-485 2x2x0.78 нГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-02-SF-4101
ITK Cable RS-485 1x2x0.78 нГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-01-SF-4209
ITK Cable RS-485 2x2x0.78 нГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-02-SF-4209
ITK Cable RS-485 1x2x0.6 КнГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-01-SF-2111
ITK Cable RS-485 2x2x0.6 КнГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-02-SF-2111
ITK Cable RS-485 1x2x0.6 КнГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-01-SF-2219
ITK Cable RS-485 2x2x0.6 КнГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-02-SF-2219
ITK Cable RS-485 1x2x0.78 КнГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-01-SF-4111
ITK Cable RS-485 2x2x0.78 КнГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-02-SF-4111
ITK Cable RS-485 1x2x0.78 КнГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-01-SF-4219
ITK Cable RS-485 2x2x0.78 КнГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-02-SF-4219
ITK Cable RS-485 1x2x0.6 КнГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-01-SF-2121
ITK Cable RS-485 2x2x0.6 КнГ(A)-LS (200 m)	нГ(A)-LS	-50...+70°C	-10... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-02-SF-2121
ITK Cable RS-485 1x2x0.6 КнГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-01-SF-2229
ITK Cable RS-485 2x2x0.6 КнГ(A)-HF (200 m)	нГ(A)-HF	-60...+90°C	-15... +60°C	40 years	P1b.8.1.2.1	RC3-RS485-02-SF-2229
ITK Cable RS-485 1x2x0.78 КнГ(A)-LS (200 m)	нГ(A)-LS	-50... +70°C	-10°C... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-01-SF-4121
ITK Cable RS-485 2x2x0.78 КнГ(A)-LS (200 m)	нГ(A)-LS	-50... +70°C	-10°C... +50°C	30 years	P1b.8.2.2.2	RC3-RS485-02-SF-4121
ITK Cable RS-485 1x2x0.78 КнГ(A)-HF (200 m)	нГ(A)-HF	-60... +90°C	15°C - +60°C	40 years	P1b.8.1.2.1	RC3-RS485-01-SF-4229
ITK Cable RS-485 2x2x0.78 КнГ(A)-HF (200 m)	нГ(A)-HF	-60... +90°C	15°C - +60°C	40 years	P1b.8.1.2.1	RC3-RS485-02-SF-4229

* нГ – not flammable



Interface fire resistant cable ITK RS-485



Made
in Russia

Fire-resistant pair twisting cables are designed for transmission of digital and analog signals in civil and industry security systems, fire protection and industry automation systems, related to human life support on high fire risk locations (oil and gas plants, chemical and metallurgical plants, mines, underground railway, water crafts, etc.). Also can be applied in other communication, control and management systems, that must remain functional during 180 minutes in open flame conditions. Can be used in systems, using a standard RS-485 and Profibus.

Interface fire resistant cable RS-485

shielded



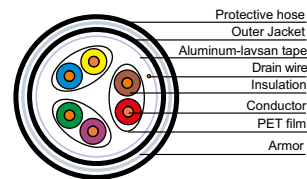
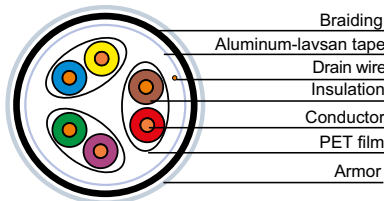
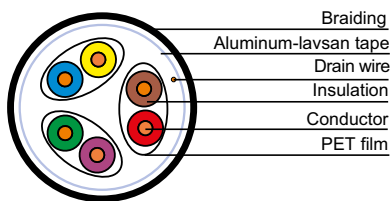
armored



armored with protective hose



Cable view in a cross section



Scope of application:

- for industry security and automation systems;
- for fire protection systems;
- on high fire risk locations (oil and gas plants, chemical and metallurgical plants, underground railway, etc.);
- for other systems, that must remain functional during 180 minutes in open flame conditions;
- shielded cables are applied in buildings and structures with higher level of electromagnetic interference;
- shielded cables are protected against external mechanical impact, including by gnawing animals; can be laid in soil of categories I-III.

Cables with hr(A)-FRLS index are applied in indoor electrical installations, production premises, enclosed cable structures, etc.

Cables with hr(A)-FRHF index are laid in multifunctional buildings, building complexes and structures with mass presence of people, etc.

Construction features

Conductor: single-wire copper strands with diameter from 0.64 to 1.78 mm.

Insulation: fire-resistant silicone resin.

Shield: aluminum-lavsan tape with contact conductor.

Shell and protective hose (on top of armor):

– hr(A)-FRLS – flexible PVC compound with low smoke and gas release;

– hr(A)-FRHF – halogen-free compound.

Armor: made of steel zinc-plated wires.

Shell color:

orange, for indoors and outdoors operation (if protected against solar radiation and atmospheric precipitation).

Main Features:

- fire-proof, flame retardant (FE 180);
- minimum bending – $8 \times D_h$, armored and with protective hose – $12 \times D_h$, where D_h is an outer cable size;
- shielded (option);
- armored, with additional protective hose (option).

Shielded ITK Cable RS-485Hr(A)-FRLS™ Nx2xD

Nominal diameter (section) of a current-carrying strand, mm (mm ²)	0.64 (0.35)	0.8 (0.5)	0.98 (0.75)	1.13 (1.0)	1.38 (1.5)	1.78 (2.5)
Strand DC resistance at +20°C, max., Ohm/km	56.8	36.9	25.1	18.6	12.5	7.7
Strand insulation resistance at +20°C, min., MOhm·km	100					
Electric capacity of a pair, max., nF/km	53	58	63	67	74	83
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.53	2.37	2.20	2.09	1.98	1.93
Surge resistance at frequency 1 MHz, Ohm	100±15	100±15	100±15	80±12	80±12	80±12
Operating voltage, max., V	300					

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Strand diameter, mm	0.64		0.80		0.98		1.13		1.38		1.78	
Quantity of pairs	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m
1	6.5	48	7.9	67	8.2	75	8.9	88	9.4	103	10.6	136
2	8.5	77	10.0	104	10.6	120	11.5	143	12.3	170	14.0	231

Armored ITK Cable RS-485 KГHr(A)-FRLS™ Nx2xD

Nominal diameter (section) of a current-carrying strand, mm (mm ²)	0.64 (0.35)	0.8 (0.5)	0.98 (0.75)	1.13 (1.0)	1.38 (1.5)	1.78 (2.5)
Strand DC resistance at +20°C, max., Ohm/km	56.8	36.9	25.1	18.6	12.5	7.7
Strand insulation resistance at +20°C, min., MOhm·km	100					
Electric capacity of a pair, max., nF/km	53	58	63	67	74	83
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.53	2.37	2.20	2.09	1.98	1.93
Surge resistance at frequency 1 MHz, Ohm	100±15	100±15	100±15	80±12	80±12	80±12
Operating voltage, max., V	300					

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Strand diameter, mm	0.64		0.80		0.98		1.13		1.38		1.78	
Quantity of pairs	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m
1	7.7	107	9.1	137	9.4	148	10.1	167	10.6	185	11.8	228
2	9.7	151	11.2	192	11.8	211	12.7	243	13.5	276	15.1	351

Armored ITK Cable RS-485 KHr(A)-FRLS™ Nx2xD with protective hose

Nominal diameter (section) of a current-carrying strand, mm (mm ²)	0.64 (0.35)	0.8 (0.5)	0.98 (0.75)	1.13 (1.0)	1.38 (1.5)	1.78 (2.5)
Strand DC resistance at +20°C, max., Ohm/km	56.8	36.9	25.1	18.6	12.5	7.7
Strand insulation resistance at +20°C, min., MOhm·km	100					
Electric capacity of a pair, max., nF/km	53	58	63	67	74	83
Damping factor at frequency 1 MHz at +20°C, max., dB/100 m	2.53	2.37	2.20	2.09	1.98	1.93
Surge resistance at frequency 1 MHz, Ohm	100±15	100±15	100±15	80±12	80±12	80±12
Operating voltage, max., V	300					

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Strand diameter, mm	0.64		0.80		0.98		1.13		1.38		1.78	
Quantity of pairs	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m
1	10.1	162	11.5	201	11.8	215	12.5	238	13.0	260	14.2	310
2	12.1	220	13.7	270	14.2	293	15.1	331	15.9	368	17.5	454

Quantity of pairs and cross-section	ITK Cable RS-485 НГ(A)-FRLS		ITK Cable RS-485 КГНГ(A)-FRLS		ITK Cable RS-485 КНГ(A)-FRLS	
	ДН	м	ДН	м	ДН	м
1×2×0.64	6.5	48	7.7	106	10.1	162
1×2×0.8	7.9	67	9.1	137	11.5	201
1×2×0.98	8.2	75	9.4	148	11.8	215
1×2×1.13	8.9	88	10.1	167	12.5	238
1×2×1.38	9.4	103	10.6	185	13.0	260
1×2×1.78	10.6	136	11.8	228	14.2	310
2×2×0.64	8.5	77	9.7	151	12.1	220
2×2×0.8	10.0	104	11.2	192	13.6	270
2×2×0.98	10.5	120	11.7	211	14.1	293
2×2×1.13	11.5	143	12.7	243	15.1	331
2×2×1.38	12.2	170	13.4	276	15.8	368
2×2×1.78	13.9	231	15.1	351	17.5	454

Quantity of pairs and cross-section	ITK Cable RS-485 НГ(A)-FRHF		ITK Cable RS-485 КГНГ(A)-FRHF		ITK Cable RS-485 КНГ(A)-FRHF	
	ДН	м	ДН	м	ДН	м
1×2×0.64	6.5	47	7.7	105	10.1	160
1×2×0.8	7.9	65	9.1	134	11.5	197
1×2×0.98	8.2	73	9.4	146	11.8	211
1×2×1.13	8.9	86	10.1	164	12.5	233
1×2×1.38	9.4	100	10.6	183	13.0	255
1×2×1.78	10.6	133	11.8	225	14.2	305
2×2×0.64	8.5	75	9.7	149	12.1	215
2×2×0.8	10.0	101	11.2	189	13.6	265
2×2×0.98	10.5	117	11.7	208	14.1	288
2×2×1.13	11.5	140	12.7	239	15.1	325
2×2×1.38	12.2	166	13.4	272	15.8	362

Quantity of pairs and cross-section	ITK Cable RS-485 НГ(A)-FRHF		ITK Cable RS-485 КГНГ(A)-FRHF		ITK Cable RS-485 КНГ(A)-FRHF	
	ДН	м	ДН	м	ДН	м
2×2×1.78	13.9	227	15.1	347	17.5	447
3×2×0.64	9.8	97	11.0	183	13.4	257
3×2×0.8	11.7	135	12.9	236	15.3	323
3×2×0.98	12.3	157	13.5	263	15.9	354
3×2×1.13	13.6	189	14.8	306	17.2	404
3×2×1.38	14.4	228	15.6	352	18.4	473
3×2×1.78	16.5	316	17.7	457	20.5	593
4×2×0.64	10.9	119	12.1	213	14.5	294
4×2×0.8	13.1	166	14.3	280	16.7	375
4×2×0.98	13.9	195	15.1	314	17.9	431
4×2×1.13	15.3	237	16.5	368	19.3	495
4×2×1.38	16.3	288	17.5	427	20.3	562
4×2×1.78	19.1	422	20.3	584	23.5	762

* НГ - not flammable

Product range

Name	Shell	Operating temperature	Mounting temperature	Service life	Fire safety class according to GOST 31565-2012	Article
ITK Cable RS-485 1x2x0.64 КГнГ(A)-FRHF (200 m)	нГ(A)-FRHF	-60... +90°C	15°C - +60°C	40 years	P1b.1.1.2.1	FR1-01-F-3417
ITK Cable RS-485 1x2x0.80 КГнГ(A)-FRHF (200 m)						FR1-01-F-5417
ITK Cable RS-485 1x2x0.98 КГнГ(A)-FRHF (200 m)						FR1-01-F-6417
ITK Cable RS-485 1x2x1.13 КГнГ(A)-FRHF (200 m)						FR1-01-F-7417
ITK Cable RS-485 2x2x0.64 КГнГ(A)-FRHF (200 m)						FR1-02-F-3417
ITK Cable RS-485 2x2x0.80 КГнГ(A)-FRHF (200 m)						FR1-02-F-5417
ITK Cable RS-485 2x2x0.98 КГнГ(A)-FRHF (200 m)						FR1-02-F-6417
ITK Cable RS-485 2x2x1.13 КГнГ(A)-FRHF (200 m)						FR1-02-F-7417
ITK Cable RS-485 1x2x0.64 КнГ(A)-FRHF (200 m)						FR1-01-F-3427
ITK Cable RS-485 1x2x0.80 КнГ(A)-FRHF (200 m)						FR1-01-F-5427
ITK Cable RS-485 1x2x0.98 КнГ(A)-FRHF (200 m)						FR1-01-F-6427
ITK Cable RS-485 1x2x1.13 КнГ(A)-FRHF (200 m)						FR1-01-F-7427
ITK Cable RS-485 2x2x0.64 КнГ(A)-FRHF (200 m)						FR1-02-F-3427
ITK Cable RS-485 2x2x0.80 КнГ(A)-FRHF (200 m)						FR1-02-F-5427
ITK Cable RS-485 2x2x0.98 КнГ(A)-FRHF (200 m)						FR1-02-F-6427
ITK Cable RS-485 2x2x1.13 КнГ(A)-FRHF (200 m)						FR1-02-F-7427
ITK Cable RS-485 1x2x0.64 КГнГ(A)-FRLS (200 m)	нГ(A)-FRLS	-50... +70°C	-10°C... +50°C	30 years	P1b.1.2.2.2	FR1-01-F-3317
ITK Cable RS-485 1x2x0.80 КГнГ(A)-FRLS (200 m)						FR1-01-F-5317
ITK Cable RS-485 1x2x0.98 КГнГ(A)-FRLS (200 m)						FR1-01-F-6317
ITK Cable RS-485 1x2x1.13 КГнГ(A)-FRLS (200 m)						FR1-01-F-7317
ITK Cable RS-485 2x2x0.64 КГнГ(A)-FRLS (200 m)						FR1-02-F-3317
ITK Cable RS-485 2x2x0.80 КГнГ(A)-FRLS (200 m)						FR1-02-F-5317
ITK Cable RS-485 2x2x0.98 КГнГ(A)-FRLS (200 m)						FR1-02-F-6317
ITK Cable RS-485 2x2x1.13 КГнГ(A)-FRLS (200 m)						FR1-02-F-7317
ITK Cable RS-485 2x2x1.13 КнГ(A)-FRLS (200 m)						FR1-02-F-7327

* нГ - not flammable

Name	Shell	Operating temperature	Mounting temperature	Service life	Fire safety class according to GOST 31565-2012	Article
ITK Cable RS-485 1x2x0.80 Кнг(А)-FRLS (200 m)	нг(А)-FRLS	-50... +70°C	-10°C... +50°C	30 years	P1b.1.2.2.2	FR1-01-F-5327
ITK Cable RS-485 1x2x0.98 Кнг(А)-FRLS (200 m)						FR1-01-F-6327
ITK Cable RS-485 1x2x1.13 Кнг(А)-FRLS (200 m)						FR1-01-F-7327
ITK Cable RS-485 2x2x0.64 Кнг(А)-FRLS (200 m)						FR1-02-F-3327
ITK Cable RS-485 2x2x0.80 Кнг(А)-FRLS (200 m)						FR1-02-F-5327
ITK Cable RS-485 2x2x0.98 Кнг(А)-FRLS (200 m)						FR1-02-F-6327
ITK Cable RS-485 2x2x1.13 Кнг(А)-FRLS (200 m)						FR1-02-F-7327
ITK Cable RS-485 1x2x0.64 нг(А)-FRLS (200 m)						RC1-RS485-01-F-3307
ITK Cable RS-485 2x2x0.64 нг(А)-FRLS (200 m)	RC1-RS485-02-F-3307					
ITK Cable RS-485 1x2x0.64 нг(А)-FRHF (200 m)	нг(А)-FRHF	-60... +90°C	15°C - +60°C	40 years	P1b.1.1.2.1	RC1-RS485-01-F-3407
ITK Cable RS-485 2x2x0.64 нг(А)-FRHF (200 m)						RC1-RS485-02-F-3407
ITK Cable RS-485 1x2x0.80 нг(А)-FRLS (200 m)	нг(А)-FRLS	-50... +70°C	-10°C... +50°C	30 years	P1b.1.2.2.2	RC1-RS485-01-F-5307
ITK Cable RS-485 2x2x0.80 нг(А)-FRLS (200 m)						RC1-RS485-02-F-5307
ITK Cable RS-485 1x2x0.80 нг(А)-FRHF (200 m)	нг(А)-FRHF	-60... +90°C	15°C - +60°C	40 years	P1b.1.1.2.1	RC1-RS485-01-F-5407
ITK Cable RS-485 2x2x0.80 нг(А)-FRHF (200 m)						RC1-RS485-02-F-5407
ITK Cable RS-485 1x2x0.98 нг(А)-FRLS (200 m)	нг(А)-FRLS	-50... +70°C	-10°C... +50°C	30 years	P1b.1.2.2.2	RC1-RS485-01-F-6307
ITK Cable RS-485 2x2x0.98 нг(А)-FRLS (200 m)						RC1-RS485-02-F-6307
ITK Cable RS-485 1x2x0.98 нг(А)-FRHF (200 m)	нг(А)-FRHF	-60... +90°C	15°C - +60°C	40 years	P1b.1.1.2.1	RC1-RS485-01-F-6407
ITK Cable RS-485 2x2x0.98 нг(А)-FRHF (200 m)						RC1-RS485-02-F-6407
ITK Cable RS-485 1x2x1.13 нг(А)-FRLS (200 m)	нг(А)-FRLS	-50... +70°C	-10°C... +50°C	30 years	P1b.1.2.2.2	RC1-RS485-01-F-7307
ITK Cable RS-485 2x2x1.13 нг(А)-FRLS (200 m)						RC1-RS485-02-F-7307
ITK Cable RS-485 1x2x1.13 нг(А)-FRHF (200 m)	нг(А)-FRHF	-60... +90°C	15°C - +60°C	40 years	P1b.1.1.2.1	RC1-RS485-01-F-7407
ITK Cable RS-485 2x2x1.13 нг(А)-FRHF (200 m)						RC1-RS485-02-F-7407

* нг - not flammable



Fire-resistant ITK cable for fire protection systems



Cables are designed for bunched wiring in fire fighting systems, fire alarm systems, access monitoring and control systems (AMCS), fire alarm and evacuation systems, emergency lighting systems on evacuation routes, emergency ventilation and smoke control systems, automatic fire suppression systems, as well as in other communication, control and management systems, that must remain functional during 180 minutes in open flame conditions.

Fire-resistant ITK cable for fire protection systems, shielded and unshielded

NEW

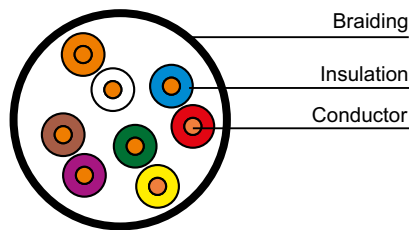
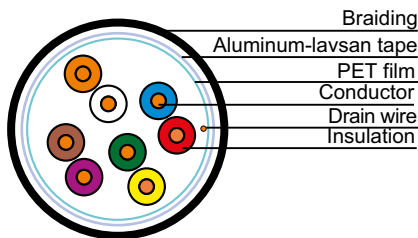
shielded



unshielded cable



Cable view in a cross section



Scope of application:

- fire alarm systems;
- fire alarm and evacuation systems;
- access control and management systems;
- other systems, that must remain functional during 180 minutes in open flame conditions;
- shielded cables are applied in buildings and structures with higher level of electromagnetic interference.

Cables with нr(A)-FRLS index are applied in indoor electrical installations, production premises, enclosed cable structures, etc.

Cables with нr(A)-FRLSLTx index are applied in children pre-school and educational institutions, specialized nursing homes for elderly and disabled people, in hospitals, bedroom buildings of residential establishments, in children institutions and other social facilities, according to FZ No. 123, with fire risk classes according to F1-F3.

Cables with нr(A)-FRHF index are laid in multi-functional high-rise buildings, complexes and structures with mass presence of people, etc.

Construction features

Conductor: single-wire copper strands with section from 0.2 to 2.5 mm².

Insulation: fire-resistant silicone resin.

Shield: aluminum-lavsan tape with contact conductor.

Shell:

- нr(A)-FRLS – flexible PVC compound with low smoke and gas release.
- нr(A)-FRLSLTx – low-toxic flexible PVC compound with low smoke and gas release;
- нr(A)-FRHF – halogen-free polymer compound.

Shell color:

- нr(A)-FRLS , нr(A)-FRHF – orange;
- нr(A)-FRLSLTx – red.

Main Features:

- fire-proof, flame retardant (FE 180);
- minimum bending radius – $10 \times D_H$, where D_H – outer cable size;
- shielded (option);
- cables with indexes нr(A)-FRLS , нr(A)-FRHF , нr(A)-FRLSLTx for indoors and outdoors operation, if protected against direct solar radiation and atmospheric precipitation.

Electric parameters

Nominal section of a current-carrying strand, mm ²	0.2	0.35	0.5	0.75	1.0	1.5	2.5
Strand DC resistance at +20°C, max., Ohm/km	90.5	48.9	39.7	27.1	19.4	13.7	8.2
Strand insulation resistance at +20°C, min., MOhm·km	100						
Electric capacity of a pair, max., nF/km	58.0	67.0	72.0	80.0	85.0	90.0	102.0
Damping factor at frequency 1 kHz at +20°C, max., dB/km	2.50	1.90	1.20	0.91	0.80	0.60	0.48
Operating voltage, max., V	300						

Weight and dimensions parameters: D_H – nominal outside diameter of a cable, mm; m – estimated weight, kg/km

Section S, mm ²	0.2		0.35		0.5		0.75		1.0		1.5		2.5	
	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m	D _H	m
1	4.2	22	4.6	27	4.8	29	5.4	38	5.8	45	6.2	54	7.0	76
2	5.3	33	5.8	42	6.0	46	7.1	63	7.9	83	8.5	102	9.6	145
3	Weight and dimensions parameters from 3 and more pairs see at the end of the section													

Quantity of pairs and cross-section	ITK Cable КПСнг(A)-FRLS, ITK Cable КПСнг(A)-FRLSLTx, ITK Cable КПСнг(A)-FRHF Nx2xS		ITK Cable КПСнг(A)-FRLS Nx2xS, ITK Cable КПСнг(A)-FRLSLTx, ITK Cable КПСнг(A)-FRHF	
	D _H	m	D _H	m
1×2×0.2	4.0	18.7	4.2	21.5
1×2×0.35	4.4	23.7	4.6	26.7
1×2×0.5	4.6	26.3	4.8	29.3
1×2×0.75	5.2	34.8	5.4	38.0
1×2×1.0	5.6	41.4	5.8	44.8
1×2×1.5	6.0	50.8	6.2	54.3
1×2×2.5	6.8	72.2	7.0	76.1
2×2×0.2	5.1	29.3	5.3	32.5
2×2×0.35	5.6	38.3	5.8	41.7
2×2×0.5	5.8	42.9	6.0	46.3
2×2×0.75	6.9	59.2	7.1	63.2
2×2×1.0	7.7	79.1	7.9	83.2
2×2×1.5	8.3	97.7	8.5	102.1
2×2×2.5	9.4	140.0	9.6	144.7
3×2×0.2	6.3	45.3	6.6	49.2
3×2×0.35	6.9	59.0	7.2	63.1
3×2×0.5	7.2	66.0	7.5	70.2
3×2×0.75	8.5	90.7	8.8	95.5
3×2×1.0	9.0	108.9	9.3	113.7
3×2×1.5	10.0	141.2	10.3	146.8
3×2×2.5	11.4	204.0	11.7	210.1

* нг – not flammable

Quantity of pairs and cross-section	ITK Cable КПСнг(A)-FRLS, ITK Cable КПСнг(A)-FRLSLTx, ITK Cable КПСнг(A)-FRHF Nx2xS		ITK Cable КПСнг(A)-FRLS Nx2xS, ITK Cable КПСнг(A)-FRLSLTx, ITK Cable КПСнг(A)-FRHF	
4x2x0.2	7.0	55.2	7.3	59.4
4x2x0.35	7.7	73.0	8.0	77.4
4x2x0.5	8.0	82.0	8.3	865
4x2x0.75	9.5	113.9	9.8	118.9
4x2x1.0	10.2	137.8	10.5	143.3
4x2x1.5	11.2	179.2	11.5	185.0
4x2x2.5	12.8	261.6	13.1	268.0

Product range

Name	Shell	Operating temperature	Mounting temperature	Service life	Fire safety class according to GOST 31565-2012	Article
ITK Cable КПСнг(A)-FRLS 1x2x0.20 (200 m)	нг(A)-FRLS	-50...+75°C	-10...+50°C	30 years	P1b.1.2.2.2	FR1-01-U-1307
ITK Cable КПСнг(A)-FRLS 1x2x0.35 (200 m)						FR1-01-U-3307
ITK Cable КПСнг(A)-FRLS 1x2x0.50 (200 m)						FR1-01-U-5307
ITK Cable КПСнг(A)-FRLS 1x2x0.75 (200 m)						FR1-01-U-6307
ITK Cable КПСнг(A)-FRLS 1x2x1.0 (200 m)						FR1-01-U-7307
ITK Cable КПСнг(A)-FRLS 1x2x1.5 (200 m)						FR1-01-U-8307
ITK Cable КПСнг(A)-FRLS 2x2x0.20 (200 m)						FR1-02-U-1307
ITK Cable КПСнг(A)-FRLS 2x2x0.35 (200 m)						FR1-02-U-3307
ITK Cable КПСнг(A)-FRLS 2x2x0.50 (200 m)						FR1-02-U-5307
ITK Cable КПСнг(A)-FRLS 2x2x0.75 (200 m)						FR1-02-U-6307
ITK Cable КПСнг(A)-FRLS 2x2x1.0 (200 m)						FR1-02-U-7307
ITK Cable КПСнг(A)-FRLS 2x2x1.5 (200 m)						FR1-02-U-8307
ITK Cable КПСнг(A)-FRLS 1x2x0.20 (200 m)						FR1-01-F-1307
ITK Cable КПСнг(A)-FRLS 1x2x0.35 (200 m)						FR1-01-F-3307
ITK Cable КПСнг(A)-FRLS 1x2x0.50 (200 m)						FR1-01-F-5307
ITK Cable КПСнг(A)-FRLS 1x2x0.75 (200 m)						FR1-01-F-6307
ITK Cable КПСнг(A)-FRLS 1x2x1.0 (200 m)						FR1-01-F-7307
ITK Cable КПСнг(A)-FRLS 1x2x1.5 (200 m)						FR1-01-F-8307
ITK Cable КПСнг(A)-FRLS 2x2x0.20 (200 m)						FR1-02-F-1307

* нг – not flammable

Name	Shell	Operating temperature	Mounting temperature	Service life	Fire safety class according to GOST 31565-2012	Article
ITK Cable КПСнг (A)-FRLS 2x2x0.35 (200 m)	нг(A)-FRLS	-50...+75°C	-10...+50°C	30 years	P1b.1.2.2.2	FR1-02-F-3307
ITK Cable КПСнг (A)-FRLS 2x2x0.50 (200 m)						FR1-02-F-5307
ITK Cable КПСнг (A)-FRLS 2x2x0.75 (200 m)						FR1-02-F-6307
ITK Cable КПСнг (A)-FRLS 2x2x1.0 (200 m)						FR1-02-F-7307
ITK Cable КПСнг (A)-FRLS 2x2x1.5 (200 m)						FR1-02-F-8307
ITK Cable КПСнг (A)-FRHF 1x2x0.20 (200 m)	нг(A)-FRHF	-60...+90°C	-15...+60°C	30 years	P1b.1.2.2.2	FR1-01-U-1407
ITK Cable КПСнг (A)-FRHF 1x2x0.35 (200 m)						FR1-01-U-3407
ITK Cable КПСнг (A)-FRHF 1x2x0.50 (200 m)						FR1-01-U-5407
ITK Cable КПСнг (A)-FRHF 1x2x0.75 (200 m)						FR1-01-U-6407
ITK Cable КПСнг (A)-FRHF 1x2x1.0 (200 m)						FR1-01-U-7407
ITK Cable КПСнг (A)-FRHF 1x2x1.5 (200 m)						FR1-01-U-8407
ITK Cable КПСнг (A)-FRHF 2x2x0.20 (200 m)						FR1-02-U-1407
ITK Cable КПСнг (A)-FRHF 2x2x0.35 (200 m)						FR1-02-U-3407
ITK Cable КПСнг (A)-FRHF 2x2x0.50 (200 m)						FR1-02-U-5407
ITK Cable КПСнг (A)-FRHF 2x2x0.75 (200 m)						FR1-02-U-6407
ITK Cable КПСнг (A)-FRHF 2x2x1.0 (200 m)						FR1-02-U-7407
ITK Cable КПСнг (A)-FRHF 2x2x1.5 (200 m)						FR1-02-U-8407
ITK Cable КПСнг (A)-FRHF 1x2x0.20 (200 m)						FR1-01-F-1407
ITK Cable КПСнг (A)-FRHF 1x2x0.35 (200 m)						FR1-01-F-3407
ITK Cable КПСнг (A)-FRHF 1x2x0.50 (200 m)						FR1-01-F-5407
ITK Cable КПСнг (A)-FRHF 1x2x0.75 (200 m)						FR1-01-F-6407
ITK Cable КПСнг (A)-FRHF 1x2x1.0 (200 m)						FR1-01-F-7407
ITK Cable КПСнг (A)-FRHF 1x2x1.5 (200 m)						FR1-01-F-8407
ITK Cable КПСнг (A)-FRHF 2x2x0.20 (200 m)						FR1-02-F-1407
ITK Cable КПСнг (A)-FRHF 2x2x0.35 (200 m)						FR1-02-F-3407
ITK Cable КПСнг (A)-FRHF 2x2x0.50 (200 m)						FR1-02-F-5407
ITK Cable КПСнг (A)-FRHF 2x2x0.75 (200 m)						FR1-02-F-6407

* нг – not flammable

Name	Shell	Operating temperature	Mounting temperature	Service life	Fire safety class according to GOST 31565-2012	Article
ITK Cable КПСнг (A)-FRHF 2x2x1.0 (200 m)	нг(A)-FRHF	-60... +90°C	-15... +60°C		P1b.1.2.2.2	FR1-02-F-7407
ITK Cable КПСнг (A)-FRHF 2x2x1.5 (200 m)						FR1-02-F-8407
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.20 (200 m)	нг(A)-FRLSLTx	-50...+75°C	-10...+50°C	30 years	P1b.1.2.1.2	FR1-01-U-1504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.35 (200 m)						FR1-01-U-3504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.50 (200 m)						FR1-01-U-5504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.75 (200 m)						FR1-01-U-6504
ITK Cable КПСнг (A)-FRLSLTx 1x2x1.0 (200 m)						FR1-01-U-7504
ITK Cable КПСнг (A)-FRLSLTx 1x2x1.5 (200 m)						FR1-01-U-8504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.20 (200 m)						FR1-02-U-1504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.35 (200 m)						FR1-02-U-3504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.50 (200 m)						FR1-02-U-5504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.75 (200 m)						FR1-02-U-6504
ITK Cable КПСнг (A)-FRLSLTx 2x2x1.0 (200 m)						FR1-02-U-7504
ITK Cable КПСнг (A)-FRLSLTx 2x2x1.5 (200 m)						FR1-02-U-8504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.20 (200 m)						FR1-01-F-1504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.35 (200 m)						FR1-01-F-3504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.50 (200 m)						FR1-01-F-5504
ITK Cable КПСнг (A)-FRLSLTx 1x2x0.75 (200 m)						FR1-01-F-6504
ITK Cable КПСнг (A)-FRLSLTx 1x2x1.0 (200 m)						FR1-01-F-7504
ITK Cable КПСнг (A)-FRLSLTx 1x2x1.5 (200 m)						FR1-01-F-8504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.20 (200 m)						FR1-02-F-1504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.35 (200 m)						FR1-02-F-3504
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.50 (200 m)	FR1-02-F-5504					
ITK Cable КПСнг (A)-FRLSLTx 2x2x0.75 (200 m)	FR1-02-F-6504					
ITK Cable КПСнг (A)-FRLSLTx 2x2x1.0 (200 m)	FR1-02-F-7504					
ITK Cable КПСнг (A)-FRLSLTx 2x2x1.5 (200 m)	FR1-02-F-8504					

* нг – not flammable

ITK Tools

- Cable stripping and cutting
- Cable crimping
- Impact tool
- Cable testers
- Mounting accessories



Organization of structured cable systems and cable operations required a high quality professional hand tools of various application, whether cable stripping or cutting or termination into a patch panel.

In order to reduce time for SCS mounting, ITK produces professional tools of wide application range: for operation with telephone, LAN and coaxial cable.



SCS copper components

- Usage versatility as part of SCS systems
- Broad range with an option to select a mounting type
- Gold sputtering of a terminal block
- Compliance with international standards



Range of copper ITK® copper components is a comprehensive solution, allowing to build a physical infrastructure of any complexity. A mature system is reliably protected against internal and external crosstalk and operates on frequencies up to 500 MHz.

All products undergo 100 % quality control on production stage, as well as additional control on stages of storage and transportation.

A 25 years system warranty covers copper components (except for low-cost families).

High density patch panels.

Cutting edge solution with sustainable data transmission, convenient arrangement of ports, compact form-factor and small weight, with efficient switching of mounting space allows to build a required port configuration for various design tasks utilized in data centers and in high density cable systems.



Article designation system for high density switch panels

PP24-D05UC5ES-D05H

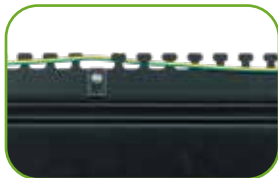
PP	product type PP – patch panel
24	quantity of information ports: 24 – 24 ports, 48 – 48 ports
D05U	height in units: D05U – 0.5 unit, 1U – 1 unit
C5E	patch panel category according to ISO/IEC 11801:2002 and TIA/EIA-568-B: C5E – category 5E, C6(C06) – category 6, C6A – category 6A
S	shield availability: S – STP (shielded), U – UTP (unshielded)
D	termination method of IDC contacts: D – Dual type
05	patch panel color: 05 – black (RAL 9005)
H	construction feature: high density of information port at a standard size

High density patch panels.

Ultra-fine switch panel



FE conductor of extended length



Screw fixation of brackets in a bonding network



ITK 0.5U patch panel cat. 6A STP 24 ports high density shielded IDC PP24-D05UC6AS-D05H

Advantages		Specifications	
	High density of information ports arrangement in a limited space	<ul style="list-style-type: none"> Patch panel type Category Q-ty of ports Mounting type Permissible diameter of conductors Termination type of IDC contacts Material of IDC contacts Sputtering on module contacts Enclosure material 	<ul style="list-style-type: none"> STP, UTP 6A, 6, 5E 24, 48 for 19" profile 22-24 AWG Dual bronze gold 3 μ steel 1.6 mm, ABS plastic
	Protective shield version	<ul style="list-style-type: none"> Max. current strength Voltage Termination resistance Insulation resistance Q-ty of cord 	<ul style="list-style-type: none"> 1.5 A 48 V 20 MOhms 500 MOhms ≥ 750 connection cycles
	Build-in cable organizer		
	Compact size and light weight		

Product range

Name	Type	Q-ty of ports	Height	Availability of protective shield	IDC	Cable organizer/Type	Article
0.5U patch panel кАт. 6A STP 24 ports high density shielded Dual IDC	6A STP	24	0.5U	yes	Dual	yes/rigid fixation	PP24-D05UC6AS-D05H*
0.5U patch panel кАт. 6 STP 24 ports high density shielded Dual IDC	6 STP	24	0.5U	yes	Dual	yes/rigid fixation	PP24-D05UC06S-D05H*
0.5U patch panel кАт. 5e STP 24 ports high density shielded Dual IDC	5E STP	24	0.5U	yes	Dual	yes/rigid fixation	PP24-D05UC5ES-D05H*

* Specialized design

High density patch panels.

Quick-detachable mounting boards



Enhanced construction of IDC knives



Large quantity of ports in a standard size



**ITK 1U patch panel cat.6 UTP, 48 ports (IDC Dual) high density
PP48-1UC06U-D05H**

Product range

Name	Type	Q-ty of ports	Height	Availability of protective shield	IDC	Cable organizer/Type	Article
1U patch panel cat.6 UTP, 48 ports (IDC Dual) high density	6 UTP	48	1U	none	Dual	yes/rigid fixation	PP48-1UC06U-D05H*
1U patch panel cat.5E UTP, 48 ports (IDC Dual) high density	5E UTP	48	1U	none	Dual	yes/rigid fixation	PP48-1UC5EU-D05H*

* Specialized design

Patch panels



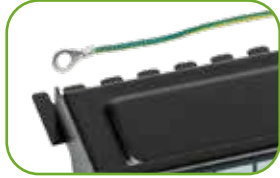
Article designation system for switch panels

PP24-1UC5EU-D05D-1

PP	product type PP – patch panel
24	quantity of information ports: 24 – 24 ports, 48 – 48 ports 50 – 50 ports, etc.
1U	height in units: 1U – 1 unit 2U – 2 units, etc.
C5E	patch panel category according to ISO/IEC 11801:2002 and TIA/EIA-568-B: C5E – category 5E, C6(C06) – category 6, C6A – category 6A, C3 – category 3
U	shield availability: U – UTP (unshielded), S – STP (shielded)
D	termination method of IDC contacts: D – Dual type, 110 – type 110
05	patch panel color: 05 – black (RAL 9005)
D	construction feature: corner information ports
1	monoblock patch panel with a detachable cable organizer

Patch panels category 6A

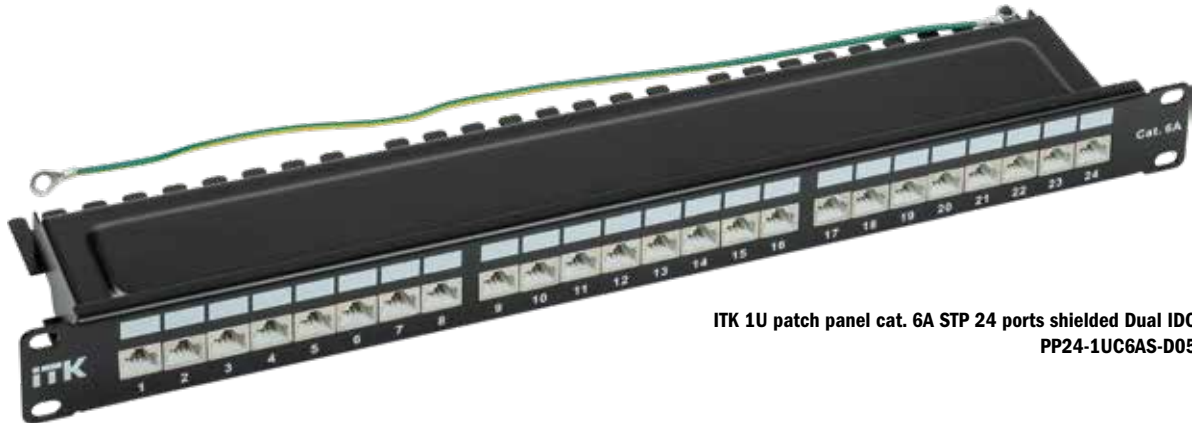
FE conductor of extended length



A platform for additional labeling and digital numbering of ports



Gold sputtering of a terminal block (3μ)



ITK 1U patch panel cat. 6A STP 24 ports shielded Dual IDC
PP24-1UC6AS-D05

Advantages



Reliable protection in increased EM conditions



Stable data transmission



Extended frequency range of operation



Availability of cable organizer

Specifications

- Patch panel type STP
- Category 6A
- Q-ty of ports 24
- Mounting type for 19" profile
- Permissible diameter of conductors 22–24 AWG
- Termination type of IDC contacts Dual
- Material of IDC contacts bronze
- Sputtering on module contacts gold 3 μ
- Enclosure material steel 1.6 mm, ABS plastic
- Max. current strength 1.5 A
- Voltage 48 V
- Termination resistance 20 MOhms
- Insulation resistance 500 MOhms
- Q-ty of cord ≥ 750 connection cycles

Product range

Name	Type	Q-ty of ports	Height	Availability of protective shield	IDC	Cable organizer/Type	Article
1U patch panel cat. 6A STP 24 ports	6A STP	24	1U	yes	Dual	yes/rigid fixation	PP24-1UC6AS-D05*

* Specialized design

Patch panels category 6

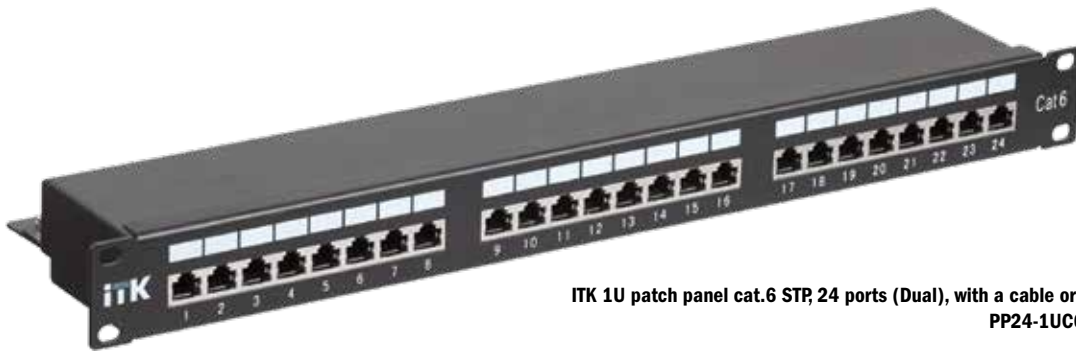
Built-in organizer
for cable fixation



Convenient and informative labeling
of a mounting board



Shielded protection
of information ports



ITK 1U patch panel cat.6 STP, 24 ports (Dual), with a cable organizer PP24-1UC6S-D05

Advantages



Compliance with international standards



Stable data transmission



Convenient arrangement of information ports



Versions with built-in and detachable cable organizer

Specifications

- Patch panel type STP, UTP
- Category 6
- Q-ty of ports 24, 48
- Mounting type for 19" profile
- Permissible diameter of conductors 22-24 AWG
- Termination type of IDC contacts Dual
- Material of IDC contacts bronze
- Sputtering on module contacts gold 3 μ
- Enclosure material steel 1.6 mm, ABS plastic
- Max. current strength 1.5 A
- Voltage 48 V
- Termination resistance 20 MOhms
- Insulation resistance 500 MOhms
- Q-ty of cord ≥ 750 connection cycles

Patch panels category 6

Detachable cable organizer



Detachable labels



Increased quantity of information ports



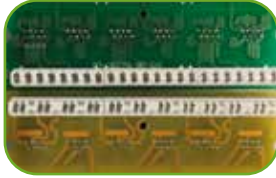
ITK 1U patch panel cat.6 UTP, 24 ports (Dual), with a cable organizer PP24-1UC6U-D05-1

Product range

Name	Type	Q-ty of ports	Height	Availability of protective shield	IDC	Cable organizer/Type	Article
1U patch panel cat.6 STP, 24 ports (Dual), with a cable organizer	6 STP	24	1U	yes	Dual	yes/rigid fixation	PP24-1UC6S-D05
1U patch panel cat.6 UTP, 24 ports (Dual)	6 UTP	24	1U	none	Dual	none	PP24-1UC6U-D05
1U patch panel cat.6 UTP, 24 ports (Dual), with a cable organizer	6 UTP	24	1U	none	Dual	yes/detachable	PP24-1UC6U-D05-1
2U patch panel cat.6 UTP, 48 ports (Dual)	6 UTP	48	2U	none	Dual	none	PP48-2UC6U-D05
2U patch panel cat.6 UTP, 48 ports (Dual), with a cable organizer	6 UTP	48	2U	none	Dual	yes/detachable	PP48-2UC6U-D05-1

Patch panels category 5E

Printed circuit boards with upgraded enhanced design



Double convenient labeling of information ports



Increased quantity of connection cycles



**ITK 1U patch panel cat. 5E UTP 24 ports
Dual IDC slide label
PP24-1UC5EU-D05L**

Advantages



Enhanced construction of IDC knives



Performance margin



Bright clearly readable label



Convenient mounting

Specifications

- Patch panel type STP, UTP
- Category 5E
- Q-ty of ports 24, 48
- Mounting type for 19" profile
- Permissible diameter of conductors 22–24 AWG
- Termination type of IDC contacts Dual
- Material of IDC contacts bronze
- Sputtering on module contacts gold 3 μ
- Enclosure material steel 1.6 mm, ABS plastic
- Max. current strength 1.5 A
- Voltage 48 V
- Termination resistance 20 MOhms
- Insulation resistance 500 MOhms
- Q-ty of cord connection cycles ≥ 750

Product range

Name	Type	Q-ty of ports	Height	Availability of protective shield	IDC	Cable organizer/Type	Article
1U patch panel cat.5E STP, 24 ports (Dual), with a cable organizer	5E STP	24	1U	yes	Dual	yes/rigid fixation	PP24-1UC5ES-D05
1U patch panel cat. 5E UTP 24 ports Dual IDC slide label	5E UTP	24	1U	none	Dual	none	PP24-1UC5EU-D05L
1U patch panel cat.5E UTP, 24 ports (Dual)	5E UTP	24	1U	none	Dual	none	PP24-1UC5EU-D05
1U patch panel cat. 5E UTP 24 ports (Dual) with a cable organizer	5E UTP	24	1U	none	Dual	yes/detachable	PP24-1UC5EU-D05-1
2U patch panel cat. 5E UTP 48 ports Dual IDC slide label	5E UTP	48	2U	none	Dual	none	PP48-2UC5EU-D05L
2U patch panel cat.5E UTP, 48 ports (Dual)	5E UTP	48	2U	none	Dual	none	PP48-2UC5EU-D05
2U patch panel cat. 5E UTP 48 ports (Dual) with a cable organizer	5E UTP	48	2U	none	Dual	yes/detachable	PP48-2UC5EU-D05-1

Modular patch panels



Article designation system for modular panels

PP24-1UMU-D

PP	product type PP – patch panel
24	quantity of information ports: 24 – 24 ports, 48 – 48 ports, etc.
1U	height in units: 1U – 1 unit, 2U – 2 units, etc.
M	panel type: modular
U	shield availability: U – UTP (unshielded), F – FTP (shielded)
D	construction feature: dust-proof covers (Dust)
V	construction feature: V-type panel

Modular patch panel category 6A

Detachable cable organizer







Dust-proof covers



Staggered arrangement of ports



ITK 1U Modular patch panel cat. 6A UTP
24 ports, dust-proof covers
PP24-1UMU-D

Advantages		Specifications	
	Modern appealing design	<ul style="list-style-type: none"> Patch panel type Q-ty of ports Mounting type Type of a cable organizer Enclosure material 	UTP 24 for 19" profile detachable steel 1.6 mm
	Arrangement of ports, minimizing background crosstalk		
	Protecting information ports against dust		
	Reliable fixation of input cables		

Product range

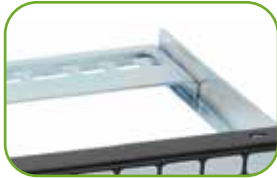
Name	Type	Q-ty of ports	Height	Availability of protective shield	Cable organizer/Type	Article
1U Modular patch panel cat. 6A UTP 24 ports dust-proof covers	6A UTP	24	1 U	none	yes/detachable	PP24-1UMU-D*

* Specialized design

Compatible with Keystone Jack modules without tool termination (Toolless) and modules IDC 110 iTK*, except for socket modules CS1-1C5EF-11, CS1-1C06F-11

Modular patch panel

Detachable cable organizer



Shielded version



General solutions for all categories



**ITK 1U Modular patch panel FTP, 24 ports
PP24-1UMF**

Advantages



Compatibility with SCS components



Reliable fixation of input cables



General solution for system building



Easy and convenient mounting

Specifications

- Patch panel type FTP, UTP
- Q-ty of ports 24
- Mounting type for 19" profile rigid fixation, detachable
- Type of a cable organizer steel 1.6 mm
- Enclosure material

Modular patch panel

Rigid fixation organizer



Utilization of copper and optical components



ITK 1U Modular patch panel UTP, 24 ports
PP24-1UMU

Product range

Name	Type	Q-ty of ports	Height	Availability of protective shield	Cable organizer/Type	Article
1U Modular patch panel FTP, 24 ports	FTP	24	1 U	yes	yes/detachable	PP24-1UMF
1U Modular patch panel UTP, 24 ports	UTP	24	1 U	none	yes/rigid fixation	PP24-1UMU

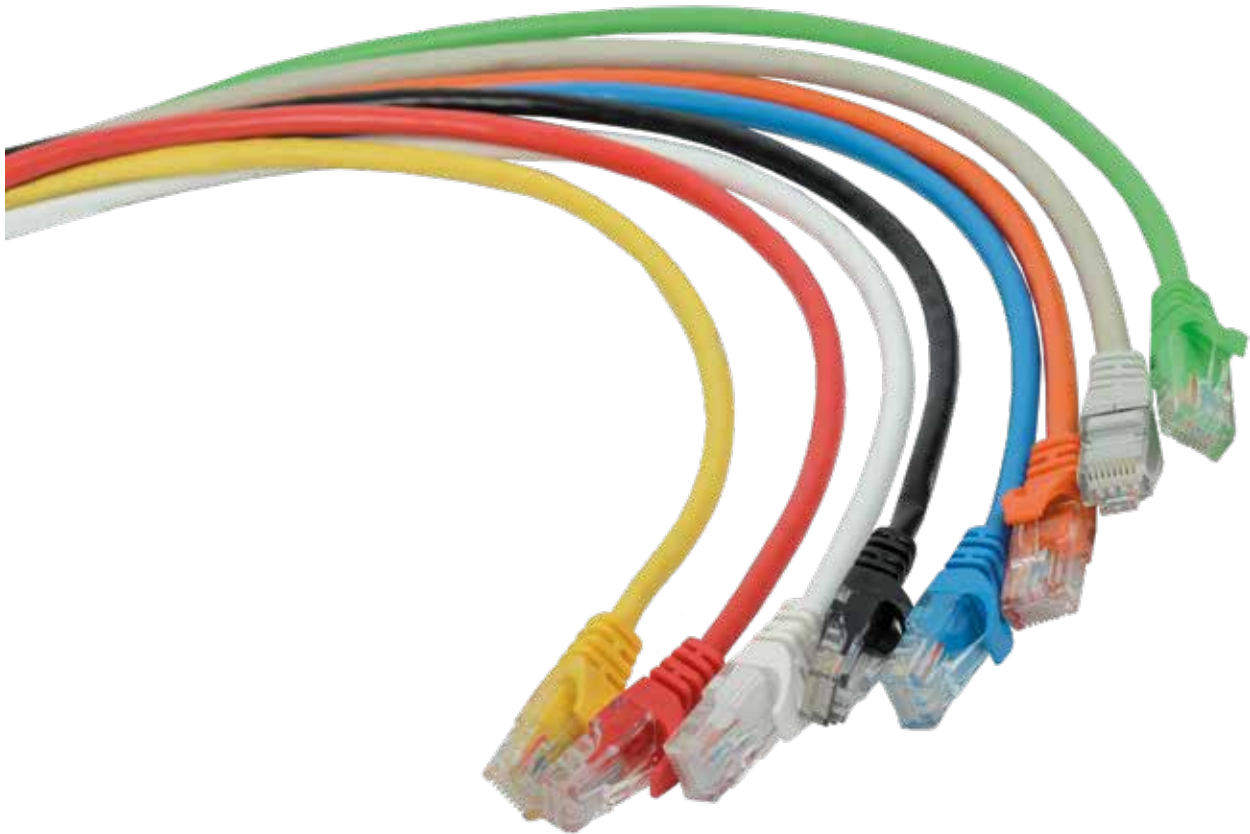
Compatible with Keystone Jack modules without tool termination (Toolless) and modules IDC 110 ITK®, except for socket modules CS1-1C5EF-11, CS1-1C06F-11

Patch cords

Patch cords are designed to connect information transmission lines between different sections of switch panels, to connect active switch or server equipment to a network, as well as to connect telephones and computers to information sockets. Major properties of the cords include resiliency to repeated stress due to bending and torsion, which is ensured by multi-wire conductor.

Produced in different outer jacket types, shielded and unshielded.

For convenient mounting, reduced errors during termination and line switching in distribution devices, as well as for cable line separation depending on scope of application, ITK® offers patch cords in various color versions.



Article designation system for patch cords

PC01-C5EU(L)-1M

- PC** patch cord
- 01** cable color:
 01 – grey, 02 – green, 03 – blue,
 04 – red, 05 – yellow, 06 – violet,
 07 – orange, 08 – white, 09 – black
- C5E** patch cord category according to ISO/IEC 11801:2002 and TIA/EIA-568-B:
 C5E – category 5E,
 C6(C06) – category 6,
 C6A – category 6A,
 C3 – category 3
- U** shield availability:
 U – UTP (unshielded),
 F – F/UTP (foil shielded),
 S – S/FTP (each pair is shielded by metal wire and foil)
- (L)** outer jacket type:
 L – if there is LSZH outer jacket, PVC outer jacket by default
- 1M** patch cord length
 05M – 0,5 meter, 1M – 1 meter, 2M – 2 meters, etc.

Patch cords



Construction with protection against hitching on cable



Color differentiation of services and user groups



Protective shield versions

Advantages



Gold sputtering of a terminal block



Increased wear resistance of a product



Connector construction prevents from hitching on a wire



Protective outer jacket PVC and LSZH

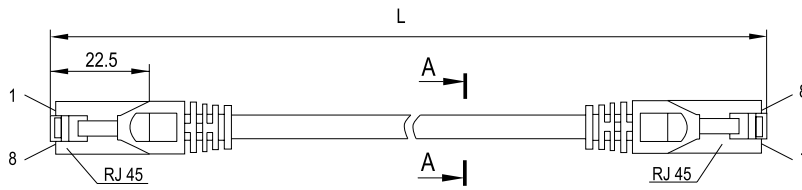
Electrical specifications

- Maximum termination resistance 20 mΩ
- Insulation resistance 500 MΩ
- Dielectric strength 1000 V RMS
- Maximum DC resistance at 20 °C <14 Ω
- Surge resistance 100±15 Ω
- Maximum mutual capacity 5.6 nF/100 m
- Nominal transmission rate:
 - category 5e (UTP), 6 (UTP), 6A (UTP) 69 %
 - category 5e (FTP) 71 %
 - category 6 (FTP), 6A (S/FTP) 74 %

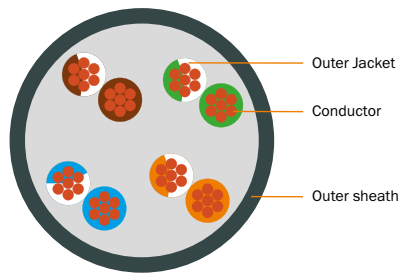
Technical properties of ITK® patch cords

Patch cord type	C5EU	C5EF	C6U	C6F	C6AU	C6AS
Bandwidth, MHz	100	100	250	250	500	500
Patch cord version	unshielded cable	shielded	unshielded cable	shielded	unshielded cable	shielded
Strand gauge (diameter) of a cable	24 AWG (7×0.18 mm)	26 AWG (7×0.16 mm)	24 AWG (7×0.18 mm)	26 AWG (7×0.16 mm)	24 AWG (7×0.2 mm)	27 AWG (7×0.145 mm)
Cable thickness, mm	5.2±0.5	5.4±0.5	50.8±0.3	6.0±0.5	6.1±0.5	6.3±0.5

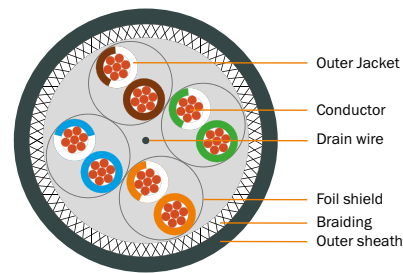
Category 6A patch cords



Technical properties of category 6A UTP switch cables



Technical properties of category 6A S/FTP switch cables



Transmission properties of CAT 6A (UTP, S/FTP) switch cables

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elftxt	Pselfxt
4	23	3.8	66.3	63.3	56	53
10	25	5.9	60.3	57.3	48	45
16	25	7.4	57.2	54.2	43.9	40.9
20	25	8.3	55.8	52.8	42	39
31.25	23.6	10.4	52.9	49.9	38.1	35.1
62.5	21.5	14.9	48.4	45.4	32.1	29.1
100	20.1	19.02	45.3	42.3	28	25
125	19.4	21.39	43.9	40.9	26.1	23.1
155	18.8	23.98	42.5	39.5	24.2	21.2
175	18.4	25.6	41.7	38.7	23.1	20.1
200	18	27.47	40.8	37.8	22	19
250	17.3	30.97	39.3	36.3	20	17
300	16.8	34.19	38.1	35.1	18.5	15.5
500	14.7	50.1	34.8	31.8	14	11

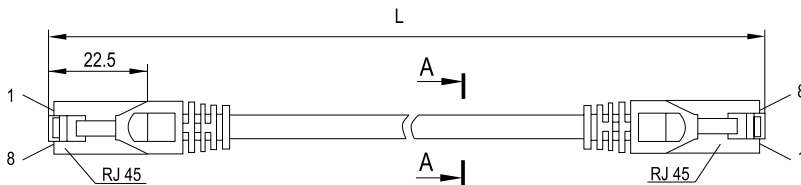
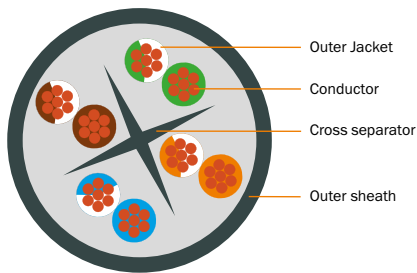
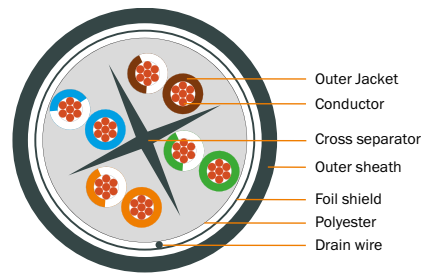
Product range

Name	Patch cord type	Length, m	Color	LSZH article
Patch cord, cat.6A UTP, LSZH, 0.5 m, grey	6A UTP	0.5	grey	PC01-C6AUL-05M
Patch cord, cat.6A UTP, LSZH, 1 m, grey	6A UTP	1	grey	PC01-C6AUL-1M
Patch cord, cat.6A UTP, LSZH, 2 m, grey	6A UTP	2	grey	PC01-C6AUL-2M
Patch cord, cat.6A UTP, LSZH, 3 m, grey	6A UTP	3	grey	PC01-C6AUL-3M
Patch cord, cat.6A UTP, LSZH, 5 m, grey	6A UTP	5	grey	PC01-C6AUL-5M
Patch cord, cat.6A UTP, LSZH, 10 m, grey	6A UTP	10	grey	PC01-C6AUL-10M
Patch cord, cat.6A S/FTP, LSZH, 0.5 m, grey	6A S/FTP	0.5	grey	PC01-C6ASL-05M
Patch cord, cat.6A S/FTP, LSZH, 1 m, grey	6A S/FTP	1	grey	PC01-C6ASL-1M
Patch cord, cat.6A S/FTP, LSZH, 2 m, grey	6A S/FTP	2	grey	PC01-C6ASL-2M
Patch cord, cat.6A S/FTP, LSZH, 3 m, grey	6A S/FTP	3	grey	PC01-C6ASL-3M
Patch cord, cat.6A S/FTP, LSZH, 5 m, grey	6A S/FTP	5	grey	PC01-C6ASL-5M
Patch cord, cat.6A S/FTP, LSZH, 10 m, grey	6A S/FTP	10	grey	PC01-C6ASL-10M

Patch cord color can be selected according to the following terms:

PC01-C6AUL-05M	01 – grey	03 – blue	05 – yellow	07 – orange	09 – black
PC01-C6ASL-05M	02 – green	04 – red	06 – violet	08 – white	

Category 6 patch cords


Technical properties of category 6 UTP switch cables

Technical properties of category 6 FTP switch cables


Transmission properties of CAT 6 (UTP, FTP) switch cables

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnxt	Elfext	Pselfxt
1	20	2	74.3	72.3	67.8	64.8
4	20.3	3.8	65.3	63.3	55.8	52.8
10	25	6	59.3	57.3	47.8	44.8
20	25	8.5	54.8	52.8	41.8	38.8
62.5	21.5	15.4	47.4	45.4	31.9	29
100	20.1	19.8	44.3	42.3	27.8	24.8
150	18.9	24.7	41.7	39.7	24.3	21.3
200	18	29	39.8	37.8	21.8	18.8
250	17.3	32.8	38.3	36.3	19.8	16.8

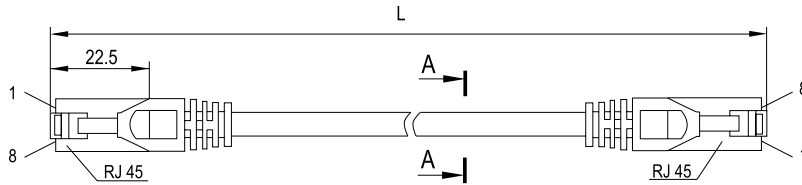
Product range

Name	Patch cord type	Length, m	Color	PVC article	LSZH article
Patch cord, cat.6 UTP, 0.5 m, grey	6 UTP	0.5	grey	PC01-C6U-05M	PC01-C6UL-05M
Patch cord, cat.6 UTP, 1 m, grey	6 UTP	1	grey	PC01-C6U-1M	PC01-C6UL-1M
Patch cord, cat.6 UTP, 2 m, grey	6 UTP	2	grey	PC01-C6U-2M	PC01-C6UL-2M
Patch cord, cat.6 UTP, 3 m, grey	6 UTP	3	grey	PC01-C6U-3M	PC01-C6UL-3M
Patch cord, cat.6 UTP, 5 m, grey	6 UTP	5	grey	PC01-C6U-5M	PC01-C6UL-5M
Patch cord, cat.6 UTP, 10 m, grey	6 UTP	10	grey	PC01-C6U-10M	PC01-C6UL-10M
Patch cord, cat.6 UTP, 15 m, grey	6 UTP	15	grey	PC01-C6U-15M	PC01-C6UL-15M
Patch cord, cat.6 FTP, 0.5 m, grey	6 FTP	0.5	grey	PC01-C6F-05M	PC01-C6FL-05M
Patch cord, cat.6 FTP, 1 m, grey	6 FTP	1	grey	PC01-C6F-1M	PC01-C6FL-1M
Patch cord, cat.6 FTP, 2 m, grey	6 FTP	2	grey	PC01-C6F-2M	PC01-C6FL-2M
Patch cord, cat.6 FTP, 3 m, grey	6 FTP	3	grey	PC01-C6F-3M	PC01-C6FL-3M
Patch cord, cat.6 FTP, 5 m, grey	6 FTP	5	grey	PC01-C6F-5M	PC01-C6FL-5M
Patch cord, cat.6 FTP, 10 m, grey	6 FTP	10	grey	PC01-C6F-10M	PC01-C6FL-10M
Patch cord, cat.6 FTP, 15 m, grey	6 FTP	15	grey	PC01-C6F-15M	PC01-C6FL-15M

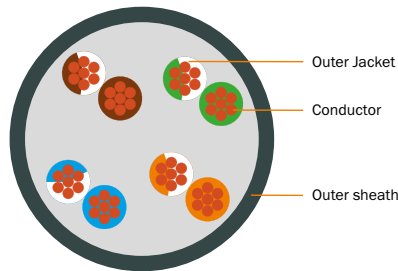
Patch cord color can be selected according to the following terms:

PC01-C6UL-05M	01 – grey	03 – blue	05 – yellow	07 – orange	09 – black
PC01-C6FL-05M	02 – green	04 – red	06 – violet	08 – white	

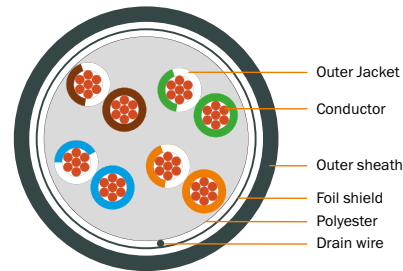
5E category patch cords



Technical properties of category 5E UTP switch cables RJ45-RJ45



Technical properties of category 5E FTP switch cables RJ45-RJ45



Transmission properties of CAT 5e (UTP, FTP) switch cables

Frequency, MHz	Return loss, dB	Attenuation, dB/100 m	Crossfire, dB			
			Next	Psnext	Elfext	Pselfxt
1	20	3	65.3	62.3	63.8	60.8
4	23	6.2	56.3	53.3	51.8	48.8
10	25	9.8	50.3	47.3	43.8	40.8
16	25	12.3	47.2	44.2	39.7	36.7
20	25	14	45.8	42	37.8	34.8
25	24.3	15.7	44.3	41.3	35.8	32.8
31.25	23.6	17.7	42.9	39.9	33.9	30.9
62.5	21.5	25.6	38.4	35.4	27.9	24.9
100	23.6	33	35.3	32.3	23.8	20.8

Product range

Name	Patch cord type	Length, m	Color	PVC article	LSZH article
Patch cord, cat.5E UTP, 0.2 m, grey	5E UTP	0.2	grey	PC01-C5EU-02M	PC01-C5EUL-02M
Patch cord, cat.5E UTP, 0.5 m, grey	5E UTP	0.5	grey	PC01-C5EU-05M	PC01-C5EUL-05M
Patch cord, cat.5E UTP, 1 m, grey	5E UTP	1	grey	PC01-C5EU-1M	PC01-C5EUL-1M
Patch cord, cat.5E UTP, 1.5 m, grey	5E UTP	1.5	grey	PC01-C5EU-1M5	PC01-C5EUL-1M5
Patch cord, cat.5E UTP, 2 m, grey	5E UTP	2	grey	PC01-C5EU-2M	PC01-C5EUL-2M
Patch cord, cat.5E UTP, 3 m, grey	5E UTP	3	grey	PC01-C5EU-3M	PC01-C5EUL-3M
Patch cord, cat.5E UTP, 5 m, grey	5E UTP	5	grey	PC01-C5EU-5M	PC01-C5EUL-5M
Patch cord, cat.5E UTP, 7 m, grey	5E UTP	7	grey	PC01-C5EU-7M	PC01-C5EUL-7M
Patch cord, cat.5E UTP, 10 m, grey	5E UTP	10	grey	PC01-C5EU-10M	PC01-C5EUL-10M
Patch cord, cat.5E UTP, 15 m, grey	5E UTP	15	grey	PC01-C5EU-15M	PC01-C5EUL-15M
Patch cord, cat.5E FTP, 0.5 m, grey	5E FTP	0.5	grey	PC01-C5EF-05M	PC01-C5EFL-05M
Patch cord, cat.5E FTP, 1 m, grey	5E FTP	1	grey	PC01-C5EF-1M	PC01-C5EFL-1M
Patch cord, cat.5E FTP, 1.5 m, grey	5E FTP	1.5	grey	PC01-C5EF-1M5	PC01-C5EFL-1M5
Patch cord, cat.5E FTP, 2 m, grey	5E FTP	2	grey	PC01-C5EF-2M	PC01-C5EFL-2M
Patch cord, cat.5E FTP, 3 m, grey	5E FTP	3	grey	PC01-C5EF-3M	PC01-C5EFL-3M
Patch cord, cat.5E FTP, 5 m, grey	5E FTP	5	grey	PC01-C5EF-5M	PC01-C5EFL-5M
Patch cord, cat.5E FTP, 10 m, grey	5E FTP	10	grey	PC01-C5EF-10M	PC01-C5EFL-10M
Patch cord, cat.5E FTP, 15 m, grey	5E FTP	15	grey	PC01-C5EF-15M	PC01-C5EFL-15M

Patch cord color can be selected according to the following terms:

PC01-C5EUL-05M	01 - grey	03 - blue	05 - yellow	07 - orange	09 - black
PC01-C5EFL-05M	02 - green	04 - red	06 - violet	08 - white	

Sockets, adapters and Keystone Jack models

Information sockets are used to connect terminal user equipment at workplaces to computer or telephone network. In terms of construction, ITK® sockets consist of plastic front panel, hosting jacks for connection of patch cords and Keystone Jack modules. Modules on the jack side of a socket have contacts, to which a patch cord is connected, and from the other side they are fitted with IDC module, allowing to reliably mount the network cable by cutting the insulation. Adapters and couplers are used to extend, upgrade and separate the cable line. All sockets, adapters, modular inserts and front panels of ITK® meet international quality standards, ensuring their compatibility with components for SCS and cables by other manufacturers. They are made of high quality non-flammable materials and offer reliability and great user experience.



Advantages



Modern appealing design



Stable data transmission



Wide range of mounting



Building a system of any category

Specifications

- | | |
|--------------------------------------|--------------------|
| • Socket type | FTP, UTP |
| • Category | 6A, 6, 5E, 3 |
| • Q-ty of ports | 1, 2 |
| • Mounting type | wall-mount, indoor |
| • Permissible diameter of conductors | 22–24 AWG |
| • Termination type of IDC contacts | Dual, 110 |
| • Module contact material | IDC bronze |
| • Sputtering on module contacts | with gold |
| • Enclosure material | ABS-plastic, metal |
| • Color | white |
| • Amperage | max. 1.5 A |
| • Voltage | 48 V |
| • Termination resistance | 20 MOhms |

Wall-mount information sockets and enclosures



Protective shield
of information ports



Convenient mounting strip



**ITK Wall-mount inf. socket RJ45 cat. 6 FTP 2-port
CS2-1C06F-22**



**ITK Wall-mount inf. socket RJ45, cat.5E UTP, 1-port
CS2-1C5EU-12**



Dust-proof
covers



Removable
labels



**ITK Enclosure of a wall-mount socket for 2 mod.
Keystone Jack CS2-022**



**ITK Enclosure of a wall-mount socket for 1 mod.
Keystone Jack CS2-012**

Product range

Name	Type	Quantity of ports	Availability of protective shield	Mounting type	Module type	Article
Wall-mount inf. socket RJ45 cat. 6 FTP 1-port	6 FTP	1	yes	on a wall	RJ45(8P8C)	CS2-1C06F-12
Wall-mount inf. socket RJ45 cat. 6 FTP 2-port	6 FTP	2	yes	on a wall	RJ45(8P8C)	CS2-1C06F-22
Wall-mount inf. socket RJ45 cat. 6 UTP 1-port	6 UTP	1	none	on a wall	RJ45(8P8C)	CS2-1C06U-12
Wall-mount inf. socket RJ45 cat. 6 UTP 2-port	6 UTP	2	none	on a wall	RJ45(8P8C)	CS2-1C6U-22
Wall-mount inf. socket RJ45 cat. 5E FTP 1-port	5E FTP	1	yes	on a wall	RJ45(8P8C)	CS2-1C5EF-12
Wall-mount inf. socket RJ45 cat. 5E FTP 2-port	5E FTP	2	yes	on a wall	RJ45(8P8C)	CS2-1C5EF-22
Wall-mount inf. socket RJ45, cat.5E UTP, 1-port	5E UTP	1	none	on a wall	RJ45(8P8C)	CS2-1C5EU-12
Wall-mount inf. socket RJ45, cat.5E UTP, 2-ports	5E UTP	2	none	on a wall	RJ45(8P8C)	CS2-1C5EU-22
Wall-mount socket RJ12, cat.3 UTP, 1-port	3 UTP	1	none	on a wall	RJ12(6P4C)	CS2-3C3U-12
Enclosure of a wall-mount socket for 1 mod. Keystone Jack	-	1	-	on a wall	-	CS2-012
Enclosure of a wall-mount socket for 2 mod. Keystone Jack	-	2	-	on a wall	-	CS2-022

Information sockets for indoor mounting



Indoor inf. socket RJ45 cat. 6 UTP 2 ports
CS2-1C06U-2-1



Versions with and without
a protective shield



Convenient labeling panel



High quality of modular
contacts

Product range

Name	Type	Quantity of ports	Availability of protective shield	Mounting type	Module type	Article
Indoor inf. socket RJ45 cat. 6 FTP 2-ports	6 FTP	2	yes	indoor	RJ45(8P8C)	CS2-1C06F-2-1
Indoor inf. socket RJ45 cat. 6 UTP 2-ports	6 UTP	2	none	indoor	RJ45(8P8C)	CS2-1C06U-2-1
Indoor inf. socket RJ45 cat. 5E FTP 2 ports	5E FTP	2	yes	indoor	RJ45(8P8C)	CS2-1C5EF-2-1
Indoor inf. socket RJ45 cat. 5E UTP 2 ports	5E UTP	2	none	indoor	RJ45(8P8C)	CS2-1C5EU-2-1

Front panels and modular inserts

Plastic and metal mounting support



Double convenient port labeling



Dust-proof covers



ITK Front frame
for mod. Mosaic 80x80 mm
plastic support white
CS5-12M-P



ITK Insert 45x45 mm
for 2 mod. Keystone Jack
with a label
CS6-22M



ITK Insert 45x22.5 mm
for 1 mod. Keystone Jack
with a label
CS6-11M

Product range

Name	Mounting type	Article
Front frame for mod. Mosaic 80x80 mm plastic support white	indoor	CS5-12M-P
Front frame for mod. Mosaic 80x80 mm metal support white	indoor	CS5-12M-M
Insert 45x45 mm for 2 mod. Keystone Jack with a label	into a frame	CS6-22M
Insert 45x45 mm for 1 mod. Keystone Jack with a label	into a frame	CS6-12M
Insert 45x22,5 mm for 1 mod. Keystone Jack with a label	into a frame	CS6-11M

Compatibility table for front panels and inserts with frames and supports of the “Primer” cable channels system

Article	Name	Frames and supports for the “Primer” cable channels system
CS5-12M-P CS5-12M-M	Front frame for mod. Mosaic, 80x80 mm, white	not compatible
CS6-11M	Insert 45x22,5 mm for 1 mod. Keystone Jack with a label	CKK-40D-RSU4-060-K01, CKK-40D-RSU4-075-K01, CKK-40D-RSU6-060-K01, CKK-40D-RSU6-075-K01, CKK-40D-RSK2-K01, CKK-40D-RU2-K02, CS6-12
CS6-12M	Insert 45x45 mm for 1 mod. Keystone Jack with a label	CKK-40D-RSU4-060-K01, CKK-40D-RSU4-075-K01, CKK-40D-RSU6-060-K01, CKK-40D-RSU6-075-K01, CKK-40D-RSK2-K01, CKK-40D-RU2-K03
CS6-22M	Insert 45x45 mm for 2 mod. Keystone Jack with a label	CKK-40D-RSU4-060-K01, CKK-40D-RSU4-075-K01, CKK-40D-RSU6-060-K01, CKK-40D-RSU6-075-K01, CKK-40D-RSK2-K01, CKK-40D-RU2-K03

Keystone Jack modules





Convenient
mountingEfficient shielded
protectionHigh-
quality terminal
block

**ITK Module Keystone Jack
category 6A STP
TOOLLESS 180 degrees
CS1-1C6AS-T2**



**ITK Module Keystone Jack
category 5E STP
TOOLLESS 180 degrees
CS1-1C5ES-T2**



Advantages		Specifications	
	Gold sputtering of a terminal block	<ul style="list-style-type: none"> Module type Category Jack type Mounting type 	STP, UTP 6A, 6, 5E RJ-45(8P8C), into a modular insert into a modular patch panel, into a socket board
	Stable data transmission	<ul style="list-style-type: none"> Permissible diameter of conductors Module termination type Termination type of IDC contacts 	22-24 AWG horizontal tolless (TOOLESS)
	Quick mounting with no tools	<ul style="list-style-type: none"> Material of IDC contacts Sputtering on module contacts Enclosure material Max. current strength Voltage 	bronze gold 3 μ ABS-plastic, metal 1.5 A 48 V
	Building a system of high category systems	<ul style="list-style-type: none"> Termination resistance Insulation resistance Q-ty of cord connection cycles 	20 MOhms 500 MOhms ≥750

Product range

Name	Type	Availability of protective shield	Mounting type	Module termination type	Article
Module Keystone Jack category 6A STP TOOLLESS 180 degrees	6A STP	yes	into a module insert, into a module patch panel, into a socket board	with no tools	CS1-1C6AS-T2*
Module Keystone Jack category 6A UTP TOOLLESS 180 degrees	6A UTP	none	into a module insert, into a module patch panel, into a socket board	with no tools	CS1-1C6AU-T2*
Module Keystone Jack category 6 STP TOOLLESS 180 degrees	6 STP	yes	into a module insert, into a module patch panel, into a socket board	with no tools	CS1-1C06S-T2*
Module Keystone Jack category 6 UTP TOOLLESS 180 degrees	6 UTP	none	into a module insert, into a module patch panel, into a socket board	with no tools	CS1-1C06U-T2*
Module Keystone Jack category 5E STP TOOLLESS 180 degrees	5E STP	yes	into a module insert, into a module patch panel, into a socket board	with no tools	CS1-1C5ES-T2*
Module Keystone Jack category 5E UTP TOOLLESS 180 degrees	5E UTP	none	into a module insert, into a module patch panel, into a socket board	with no tools	CS1-1C5EU-T2*

* Specialized design

Keystone Jack modules

Vertical mounting



Horizontal mounting



**ITK Module Keystone Jack
category 6A UTP 110 IDC
90 degrees
CS1-1C6AU-11**



**ITK Module Keystone Jack
category 6 UTP 110 IDC
180 degrees
CS1-1C06U-12**



**ITK Module Keystone Jack
category 5E FTP 110 IDC
90 degrees socket type
CS1-1C5EF-11**

Advantages



Increased quantity of ON/OFF cycles



High quality materials



Solutions for all categories



Shielded and unshielded versions

Specifications

- Module type FTP, UTP
- Category 6A, 6, 5E, 3
- Jack type RJ-45(8P8C), RJ-12(6P4C) into a modular insert into a modular patch panel, into a socket board
- Mounting type 22–24 AWG
- Permissible diameter of conductors vertical, horizontal
- Module termination type 110
- Termination type of IDC contacts bronze
- Material of IDC contacts gold 3 μ
- Sputtering on module contacts ABS-plastic, metal
- Enclosure material 1.5 A
- Max. current strength 48 V
- Voltage 20 MOhms
- Termination resistance 500 MOhms
- Insulation resistance ≥ 750 connection cycles
- Q-ty of cord

Product range

Name	Type	Availability of protective shield	Mounting type	Module termination type	Article
Module Keystone Jack cat. 6A UTP 110 IDC 90 degrees	6A UTP	none	into a module insert, into a module patch panel, into a socket board	vertical 90°	CS1-1C6AU-11
Module Keystone Jack cat. 6 FTP 110 IDC 90 degrees socket type*	6 FTP	yes	into a modular insert, into a socket board	vertical 90°	CS1-1C06F-11
Module Keystone Jack cat. 6 UTP 110 IDC 90 degrees	6 UTP	none	into a module insert, into a module patch panel, into a socket board	vertical 90°	CS1-1C06U-11
Module Keystone Jack cat. 6 UTP 110 IDC 180 degrees	6 UTP	none	into a module insert, into a module patch panel, into a socket board	horizontal 180°	CS1-1C06U-12
Module Keystone Jack cat. 5E FTP 110 IDC 90 degrees socket type*	5E FTP	yes	into a modular insert, into a socket board	vertical 90°	CS1-1C5EF-11
Module Keystone Jack cat. 5E UTP 110 IDC 90 degrees	5E UTP	none	into a module insert, into a module patch panel, into a socket board	vertical 90°	CS1-1C5EU-11
Module Keystone Jack cat. 5E UTP 110 IDC 180 degrees	5E UTP	none	into a module insert, into a module patch panel, into a socket board	horizontal 180°	CS1-1C5EU-12
Module Keystone Jack cat. 3 RJ12 UTP 110 IDC 180 degrees	3 UTP	none	into a module insert, into a module patch panel, into a socket board	horizontal 180°	CS1-3C03U-12

* Except for modular patch panels

Keystone Jack modules

Solutions for all categories of SCS



Various color versions



Label platform for IDC contacts



Advantages



Modern appealing design



Building a system of any category



Color versions for distinction of installation operating zones



Versatile solution for mounting into socket enclosures and patch panels

Specifications

- Module type UTP
- Category 6A, 6, 5E
- Mounting type into a modular insert into a modular patch panel, into a socket board
- Module termination type Vertical 90°
- Termination type of IDC contacts 110
- Material of IDC contacts bronze
- Sputtering on module contacts gold 3 μ
- Permissible diameter of conductors 22–24 AWG
- Amperage max. 1.5 A
- Rated working voltage 48 V
- Termination resistance 20 MOhms
- Insulation resistance 500 MOhms
- Q-ty of cord ≥ 750 connection cycles

Product range

Name	Type	Availability of protective shield	Article
Module Keystone Jack cat.5E UTP 110 IDC 90 degrees green	5E UTP	none	CS1-1C5EU-11-02*
Module Keystone Jack cat.5E UTP 110 IDC 90 degrees blue	5E UTP	none	CS1-1C5EU-11-03*
Module Keystone Jack cat.5E UTP 110 IDC 90 degrees red	5E UTP	none	CS1-1C5EU-11-04*
Module Keystone Jack cat.5E UTP 110 IDC 90 degrees yellow	5E UTP	none	CS1-1C5EU-11-05*
Module Keystone Jack cat.5E UTP 110 IDC 90 degrees black	5E UTP	none	CS1-1C5EU-11-09*
Module Keystone Jack cat.6 UTP 110 IDC 90 degrees green	6 UTP	none	CS1-1C06U-11-02*
Module Keystone Jack cat.6 UTP 110 IDC 90 degrees blue	6 UTP	none	CS1-1C06U-11-03*
Module Keystone Jack cat.6 UTP 110 IDC 90 degrees red	6 UTP	none	CS1-1C06U-11-04*
Module Keystone Jack cat.6 UTP 110 IDC 90 degrees yellow	6 UTP	none	CS1-1C06U-11-05*
Module Keystone Jack cat.6 UTP 110 IDC 90 degrees black	6 UTP	none	CS1-1C06U-11-09*
Module Keystone Jack cat.6A UTP 110 IDC 90 degrees green	6A UTP	none	CS1-1C6AU-11-02*
Module Keystone Jack cat.6A UTP 110 IDC 90 degrees blue	6A UTP	none	CS1-1C6AU-11-03*
Module Keystone Jack cat.6A UTP 110 IDC 90 degrees red	6A UTP	none	CS1-1C6AU-11-04*
Module Keystone Jack cat.6A UTP 110 IDC 90 degrees yellow	6A UTP	none	CS1-1C6AU-11-05*
Module Keystone Jack cat.6A UTP 110 IDC 90 degrees black	6A UTP	none	CS1-1C6AU-11-09*

* Specialized design

Copper components compatibility table

		Category 6A			Category 6		
		 CS1-1C6AU-11	 CS1-1C6AU-T2	 CS1-1C6AS-T2	 CS1-1C06U-11	 CS1-1C06U-12	 CS1-1C06U-T2
Socket boards							
 CS2-012, CS2-022		yes	yes	yes	yes	yes	yes
Modular inserts							
 CS5-12M-M, CS5-12M-P, CS6-11M, CS6-12M, CS6-22M		yes	yes	yes	yes	yes	yes
Board modular patch panels							
 PP24-1UMU-D		yes	yes	yes	yes	yes	yes
 PP24-1UMF		yes	yes	yes	yes	yes	yes
 PP24-1UMU		yes	yes	yes	yes	yes	yes

		Category 5e					Category 3
CS1-1C06F-11	CS1-1C06S-T2	CS1-1C5EU-11	CS1-1C5EU-12	CS1-1C5EU-T2	CS1-1C5EF-11	CS1-1C5ES-T2	CS1-3C03U-12
yes	yes	yes	yes	yes	yes	yes	yes
yes	yes	yes	yes	yes	yes	yes	yes
none	yes	yes	yes	yes	none	yes	yes
none	yes	yes	yes	yes	none	yes	yes
none	yes	yes	yes	yes	none	yes	yes

	full compatibility
	module construction allows to install it into board patch panels, whether shielded or unshielded
	the module cannot be installed closely to each other for complete filling of a board patch panel

itk

**MORE THAN 25 YEARS
OF RELIABILITY**

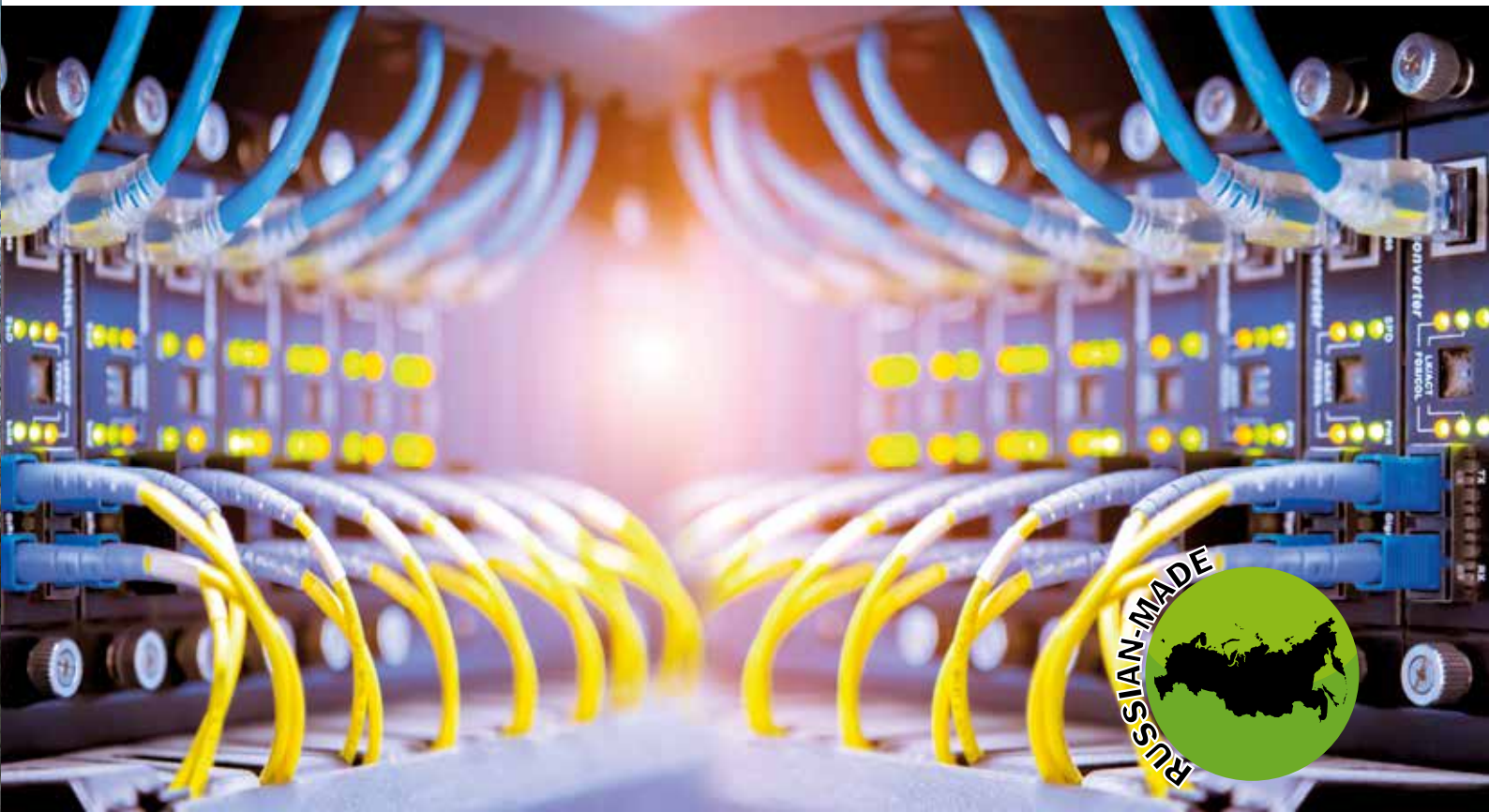


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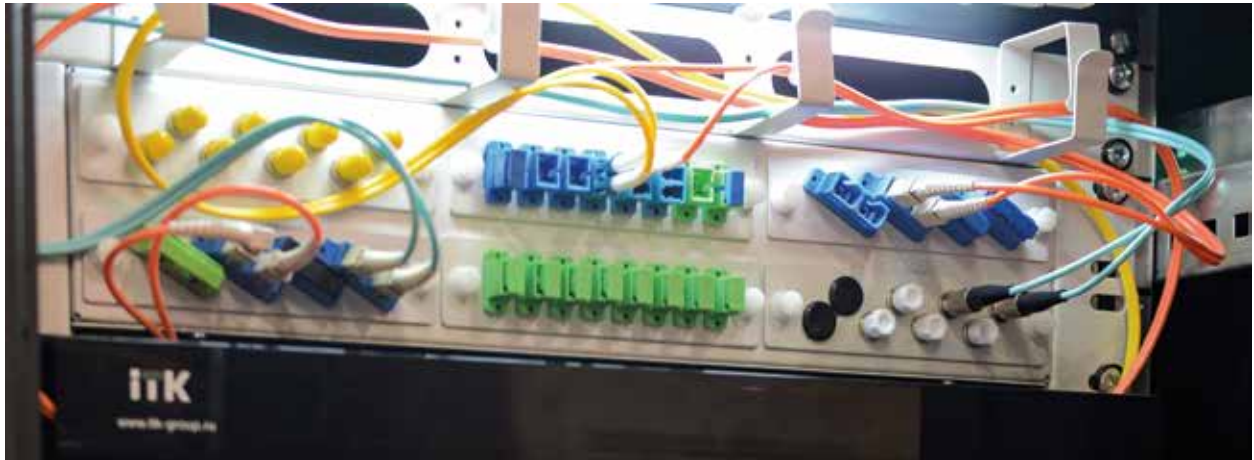
SCS optical components

- Compatibility with SCS components
- Stable data transmission
- Broad scope of application
- High quality materials



ITK® optical components are used to build modern systems, switch optical signals of communication trunk lines and distribute these signals to small optical networks

Optical distribution frames 19"



All types of optical cords for switching



Broad range of adapters for connection



Convenient protective plugs for unused ports

Accessories for optical distribution frames

	Name	Application	Article
	Panel for 8 optical adapters (FC or ST in 19" frame)	For FC or ST adapters in 19" frame	FOBX-P8-FX
	Panel for 8 optical adapters SC or LC (Duplex) in 19" frame	For Simplex or LC (Duplex) adapters in 19" frame	FOBX-P8-SC
	Panel for 4 optical adapters SC (Duplex) in 19" frame	for SC (Duplex) adapters in 19" frame	FOBX-P8-SCDX
	Plug in 19" optical distribution frame	Unused holes of frames are closed with plugs	FOBX-P8-Z
	Plug FC or ST plastic (black)	Plug is used to close unused holes in panels	FOBX-Z-FC
	Plug SC or LC (Duplex) plastic (black)		FOBX-Z-SC
	Plug SC (Duplex) plastic (black)		FOBX-Z-SCDX
	Optical fiber organizer for 32 SCs	Designed to lay excessive optic fiber	FOSK-32
	Cover for an optical fiber organizer	Several optical fiber organizer can be installed, but only one cover is required	FOSK-K
	Kit for welding protection, 40 mm	Designed to protect the connections during optic fiber welding	FOKDZS-40
	Kit for welding protection, 60 mm	Designed to protect the connections during optic fiber welding	FOKDZS-60

Optical distribution frames 19"



Advantages



Convenient mounting and reliable operation



Compliance with international standards



Wide range of mounting



Up-to-date coating of a panel enclosure with increased service life

Specifications

- Height 1U, 2U
- Width 41 cm (with brackets – 48 cm)
- Depth 22.5 cm (with brackets – 27.5 cm)
- Q-ty of ports up to 24, 48
- Mounting type for 19" profile
- Enclosure material sheet steel 1.2 mm
- Color grey (RAL 7035)

Product range

Name	Height	Q-ty of ports	Article
1U Optical distribution frame up to 24 ports (with no planes, 8 ports each – 3 pcs.)	1U	Up to 24	FOBX24-1U-000
2U Optical distribution frame up to 48 ports (with no planes, 8 ports each – 6 pcs.)	2U	Up to 48	FOBX48-2U-000

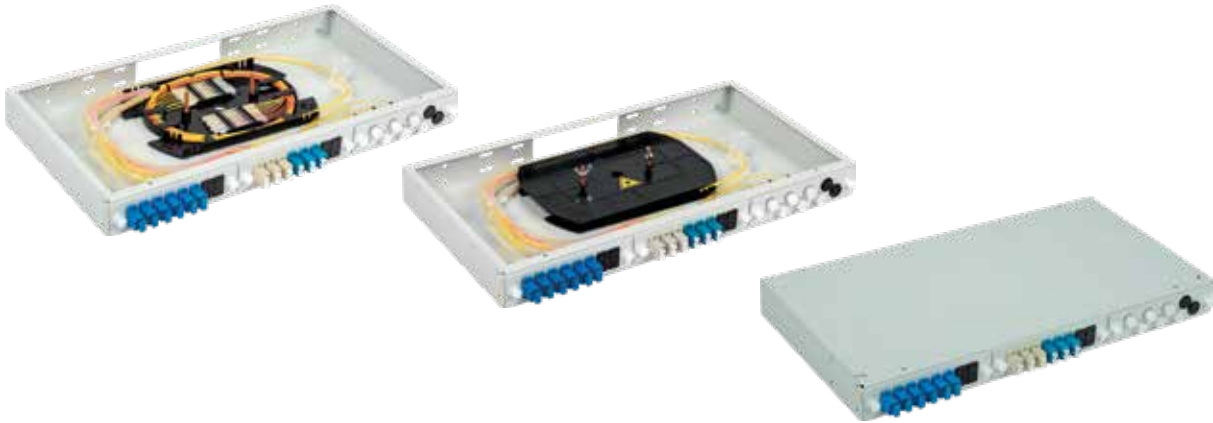
Complete optical distribution frames and boxes

For convenience, optical distribution frames are delivered in a set with all required components.

The delivery set includes: optical adapters, planes to install optical adapters, plugs for free slots in planes

and in a frame, optic fiber organizers, required quantity of pig tails, a pig tail labeling kit and a kit for welding protection.

The kit contains all necessary fastenings, optical boxes, that are installed into 19" cabinets and racks, include "eyelets" for fastening, wall-mount optical boxes also include a lock and keys to close the frame. Also the frame set includes stickers – "Beware: laser" and "Grounding".



Range of complete frames for mounting into 19" rack with SC adapters

Name	SC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
1U frame complete SC (Duplex) 4 pcs.; (OS2)	4	OS2	8	1	8	FOBX24-1U-4SCUD09
1U frame complete SC (Duplex) 8 pcs.; (OS2)	8	OS2	16	1	16	FOBX24-1U-8SCUD09
1U frame complete SC (Duplex) 12 pcs.; (OS2)	12	OS2	24	1	24	FOBX24-1U-12SCUD09
1U frame complete SC (Simplex) 4 pcs.; (OS2)	4	OS2	4	1	4	FOBX24-1U-4SCUS09
1U frame complete SC (Simplex) 6 pcs.; (OS2)	6	OS2	6	1	6	FOBX24-1U-6SCUS09
1U frame complete SC (Simplex) 8 pcs.; (OS2)	8	OS2	8	1	8	FOBX24-1U-8SCUS09
1U frame complete SC (Simplex) 12 pcs.; (OS2)	12	OS2	12	1	12	FOBX24-1U-12SCUS09
1U frame complete SC (Simplex) 16 pcs.; (OS2)	16	OS2	16	1	16	FOBX24-1U-16SCUS09
1U frame complete SC (Simplex) 20 pcs.; (OS2)	20	OS2	20	1	20	FOBX24-1U-20SCUS09
1U frame complete SC (Simplex) 24 pcs.; (OS2)	24	OS2	24	1	24	FOBX24-1U-24SCUS09
1U frame complete SC (Duplex) 4 pcs.; (OM2)	4	OM2	8	1	8	FOBX24-1U-4SCUD50
1U frame complete SC (Duplex) 8 pcs.; (OM2)	8	OM2	16	1	16	FOBX24-1U-8SCUD50
1U frame complete SC (Duplex) 12 pcs.; (OM2)	12	OM2	24	1	24	FOBX24-1U-12SCUD50
1U frame complete SC (Simplex) 4 pcs.; (OM2)	4	OM2	4	1	4	FOBX24-1U-4SCUS50
1U frame complete SC (Simplex) 6 pcs.; (OM2)	6	OM2	6	1	6	FOBX24-1U-6SCUS50
1U frame complete SC (Simplex) 8 pcs.; (OM2)	8	OM2	8	1	8	FOBX24-1U-8SCUS50
1U frame complete SC (Simplex) 12 pcs.; (OM2)	12	OM2	12	1	12	FOBX24-1U-12SCUS50
1U frame complete SC (Simplex) 16 pcs.; (OM2)	16	OM2	16	1	16	FOBX24-1U-16SCUS50
1U frame complete SC (Simplex) 20 pcs.; (OM2)	20	OM2	20	1	20	FOBX24-1U-20SCUS50
1U frame complete SC (Simplex) 24 pcs.; (OM2)	24	OM2	24	1	24	FOBX24-1U-24SCUS50
1U frame complete SC (Duplex) 4 pcs.; (OM3)	4	OM3	8	1	8	FOBX24-1U-4SCUD03
1U frame complete SC (Duplex) 8 pcs.; (OM3)	8	OM3	16	1	16	FOBX24-1U-8SCUD03
1U frame complete SC (Duplex) 12 pcs.; (OM3)	12	OM3	24	1	24	FOBX24-1U-12SCUD03
1U frame complete SC (Simplex) 4 pcs.; (OM3)	4	OM3	4	1	4	FOBX24-1U-4SCUS03
1U frame complete SC (Simplex) 6 pcs.; (OM3)	6	OM3	6	1	6	FOBX24-1U-6SCUS03
1U frame complete SC (Simplex) 8 pcs.; (OM3)	8	OM3	8	1	8	FOBX24-1U-8SCUS03
1U frame complete SC (Simplex) 12 pcs.; (OM3)	12	OM3	12	1	12	FOBX24-1U-12SCUS03
1U frame complete SC (Simplex) 16 pcs.; (OM3)	16	OM3	16	1	16	FOBX24-1U-16SCUS03
1U frame complete SC (Simplex) 20 pcs.; (OM3)	20	OM3	20	1	20	FOBX24-1U-20SCUS03

Name	SC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
1U frame complete SC (Simplex) 24 pcs.; (OM3)	24	OM3	24	1	24	FOBX24-1U-24SCUS03
1U frame complete SC (Duplex) 4 pcs.; (OM4)	4	OM4	8	1	8	FOBX24-1U-4SCUD04
1U frame complete SC (Duplex) 8 pcs.; (OM4)	8	OM4	16	1	16	FOBX24-1U-8SCUD04
1U frame complete SC (Duplex) 12 pcs.; (OM4)	12	OM4	24	1	24	FOBX24-1U-12SCUD04
1U frame complete SC (Simplex) 4 pcs.; (OM4)	4	OM4	4	1	4	FOBX24-1U-4SCUS04
1U frame complete SC (Simplex) 6 pcs.; (OM4)	6	OM4	6	1	6	FOBX24-1U-6SCUS04
1U frame complete SC (Simplex) 8 pcs.; (OM4)	8	OM4	8	1	8	FOBX24-1U-8SCUS04
1U frame complete SC (Simplex) 12 pcs.; (OM4)	12	OM4	12	1	12	FOBX24-1U-12SCUS04
1U frame complete SC (Simplex) 16 pcs.; (OM4)	16	OM4	16	1	16	FOBX24-1U-16SCUS04
1U frame complete SC (Simplex) 20 pcs.; (OM4)	20	OM4	20	1	20	FOBX24-1U-20SCUS04
1U frame complete SC (Simplex) 24 pcs.; (OM4)	24	OM4	24	1	24	FOBX24-1U-24SCUS04

Range of complete frames for mounting into 19" rack with LC adapters

Name	LC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
1U frame complete LC (Duplex) 4 pcs.; (OS2)	4	OS2	8	1	8	FOBX24-1U-4LCUD09
1U frame complete LC (Duplex) 6 pcs.; (OS2)	6	OS2	12	1	12	FOBX24-1U-6LCUD09
1U frame complete LC (Duplex) 8 pcs.; (OS2)	8	OS2	16	1	16	FOBX24-1U-8LCUD09
1U frame complete LC (Duplex) 12 pcs.; (OS2)	12	OS2	24	1	24	FOBX24-1U-12LCUD09
1U frame complete LC (Duplex) 16 pcs.; (OS2)	16	OS2	32	1	32	FOBX24-1U-16LCUD09
1U frame complete LC (Duplex) 20 pcs.; (OS2)	20	OS2	40	2	40	FOBX24-1U-20LCUD09
1U frame complete LC (Duplex) 24 pcs.; (OS2)	24	OS2	48	2	48	FOBX24-1U-24LCUD09
1U frame complete LC (Duplex) 4 pcs.; (OM2)	4	OM2	8	1	8	FOBX24-1U-4LCUD50
1U frame complete LC (Duplex) 6 pcs.; (OM2)	6	OM2	12	1	12	FOBX24-1U-6LCUD50
1U frame complete LC (Duplex) 8 pcs.; (OM2)	8	OM2	16	1	16	FOBX24-1U-8LCUD50
1U frame complete LC (Duplex) 12 pcs.; (OM2)	12	OM2	24	1	24	FOBX24-1U-12LCUD50
1U frame complete LC (Duplex) 16 pcs.; (OM2)	16	OM2	32	1	32	FOBX24-1U-16LCUD50
1U frame complete LC (Duplex) 20 pcs.; (OM2)	20	OM2	40	2	40	FOBX24-1U-20LCUD50
1U frame complete LC (Duplex) 24 pcs.; (OM2)	24	OM2	48	2	48	FOBX24-1U-24LCUD50
1U frame complete LC (Duplex) 4 pcs.; (OM3)	4	OM3	8	1	8	FOBX24-1U-4LCUD03
1U frame complete LC (Duplex) 6 pcs.; (OM3)	6	OM3	12	1	12	FOBX24-1U-6LCUD03
1U frame complete LC (Duplex) 8 pcs.; (OM3)	8	OM3	16	1	16	FOBX24-1U-8LCUD03
1U frame complete LC (Duplex) 12 pcs.; (OM3)	12	OM3	24	1	24	FOBX24-1U-12LCUD03
1U frame complete LC (Duplex) 16 pcs.; (OM3)	16	OM3	32	1	32	FOBX24-1U-16LCUD03
1U frame complete LC (Duplex) 20 pcs.; (OM3)	20	OM3	40	2	40	FOBX24-1U-20LCUD03
1U frame complete LC (Duplex) 24 pcs.; (OM3)	24	OM3	48	2	48	FOBX24-1U-24LCUD03
1U frame complete LC (Duplex) 4 pcs.; (OM4)	4	OM4	8	1	8	FOBX24-1U-4LCUD04
1U frame complete LC (Duplex) 6 pcs.; (OM4)	6	OM4	12	1	12	FOBX24-1U-6LCUD04
1U frame complete LC (Duplex) 8 pcs.; (OM4)	8	OM4	16	1	16	FOBX24-1U-8LCUD04
1U frame complete LC (Duplex) 12 pcs.; (OM4)	12	OM4	24	1	24	FOBX24-1U-12LCUD04
1U frame complete LC (Duplex) 16 pcs.; (OM4)	16	OM4	32	1	32	FOBX24-1U-16LCUD04
1U frame complete LC (Duplex) 20 pcs.; (OM4)	20	OM4	40	2	40	FOBX24-1U-20LCUD04
1U frame complete LC (Duplex) 24 pcs.; (OM4)	24	OM4	48	2	48	FOBX24-1U-24LCUD04



A range of wall-mount complete frames with SC adapters (up to 8 adapters)

Name	SC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
Complete wall-mount frame: SC (Duplex) 4 pcs.; (OS2)	4	OS2	8	1	8	FOBX8-N-4SCUD09
Complete wall-mount frame: SC (Simplex) 4 pcs.; (OS2)	4	OS2	4	1	4	FOBX8-N-4SCUS09
Complete wall-mount frame: SC (Simplex) 8 pcs.; (OS2)	8	OS2	8	1	8	FOBX8-N-8SCUS09
Complete wall-mount frame: SC (Duplex) 4 pcs.; (OM2)	4	OM2	8	1	8	FOBX8-N-4SCUD50
Complete wall-mount frame: SC (Simplex) 4 pcs.; (OM2)	4	OM2	4	1	4	FOBX8-N-4SCUS50
Complete wall-mount frame: SC (Simplex) 8 pcs.; (OM2)	8	OM2	8	1	8	FOBX8-N-8SCUS50
Complete wall-mount frame: SC (Duplex) 4 pcs.; (OM3)	4	OM3	8	1	8	FOBX8-N-4SCUD03
Complete wall-mount frame: SC (Simplex) 4 pcs.; (OM3)	4	OM3	4	1	4	FOBX8-N-4SCUS03
Complete wall-mount frame: SC (Simplex) 8 pcs.; (OM3)	8	OM3	8	1	8	FOBX8-N-8SCUS03
Complete wall-mount frame: SC (Duplex) 4 pcs.; (OM4)	4	OM4	8	1	8	FOBX8-N-4SCUD04
Complete wall-mount frame: SC (Simplex) 4 pcs.; (OM4)	4	OM4	4	1	4	FOBX8-N-4SCUS04
Complete wall-mount frame: SC (Simplex) 8 pcs.; (OM4)	8	OM4	8	1	8	FOBX8-N-8SCUS04

A range of wall-mount complete frames with SC adapters (up to 48 adapters)

Name	SC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
Complete wall-mount frame: SC (Duplex) 12 pcs.; (OS2)	12	OS2	24	1	24	FOBX24-N-12SCUD09
Complete wall-mount frame: SC (Simplex) 20 pcs.; (OS2)	20	OS2	40	2	40	FOBX24-N-20SCUS09
Complete wall-mount frame: SC (Simplex) 24 pcs.; (OS2)	24	OS2	48	2	48	FOBX24-N-24SCUS09
Complete wall-mount frame: SC (Duplex) 12 pcs.; (OM2)	12	OM2	24	1	24	FOBX24-N-12SCUD50
Complete wall-mount frame: SC (Simplex) 20 pcs.; (OM2)	20	OM2	40	2	40	FOBX24-N-20SCUS50
Complete wall-mount frame: SC (Simplex) 24 pcs.; (OM2)	24	OM2	48	2	48	FOBX24-N-24SCUS50
Complete wall-mount frame: SC (Duplex) 12 pcs.; (OM3)	12	OM3	24	1	24	FOBX24-N-12SCUD03
Complete wall-mount frame: SC (Simplex) 20 pcs.; (OM3)	20	OM3	40	2	40	FOBX24-N-20SCUS03
Complete wall-mount frame: SC (Simplex) 24 pcs.; (OM3)	24	OM3	48	2	48	FOBX24-N-24SCUS03
Complete wall-mount frame: SC (Duplex) 12 pcs.; (OM4)	12	OM4	24	1	24	FOBX24-N-12SCUD04
Complete wall-mount frame: SC (Simplex) 20 pcs.; (OM4)	20	OM4	40	2	40	FOBX24-N-20SCUS04
Complete wall-mount frame: SC (Simplex) 24 pcs.; (OM4)	24	OM4	48	2	48	FOBX24-N-24SCUS04

A range of wall-mount complete frames with LC adapters (up to 8 adapters)

Name	LC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
Complete wall-mount frame: LC (Duplex) 4 pcs.; (OS2)	4	OS2	8	1	8	FOBX8-N-4LCUD09
Complete wall-mount frame: LC (Duplex) 8 pcs.; (OS2)	8	OS2	16	1	16	FOBX8-N-8LCUD09
Complete wall-mount frame: LC (Duplex) 4 pcs.; (OM2)	4	OM2	8	1	8	FOBX8-N-4LCUD50
Complete wall-mount frame: LC (Duplex) 8 pcs.; (OM2)	8	OM2	16	1	16	FOBX8-N-8LCUD50
Complete wall-mount frame: LC (Duplex) 4 pcs.; (OM3)	4	OM3	8	1	8	FOBX8-N-4LCUD03
Complete wall-mount frame: LC (Duplex) 8 pcs.; (OM3)	8	OM3	16	1	16	FOBX8-N-8LCUD03
Complete wall-mount frame: LC (Duplex) 4 pcs.; (OM4)	4	OM4	8	1	8	FOBX8-N-4LCUD04
Complete wall-mount frame: LC (Duplex) 8 pcs.; (OM4)	8	OM4	16	1	16	FOBX8-N-8LCUD04

A range of wall-mount complete frames with LC adapters (up to 16 adapters)

Name	LC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
Complete wall-mount frame: LC (Duplex) 12 pcs.; (OS2)	12	OS2	24	1	24	FOBX16-N-12LCUD09
Complete wall-mount frame: LC (Duplex) 16 pcs.; (OS2)	16	OS2	32	1	32	FOBX16-N-16LCUD09
Complete wall-mount frame: LC (Duplex) 12 pcs.; (OM2)	12	OM2	24	1	24	FOBX16-N-12LCUD50
Complete wall-mount frame: LC (Duplex) 16 pcs.; (OM2)	16	OM2	32	1	32	FOBX16-N-16LCUD50
Complete wall-mount frame: LC (Duplex) 12 pcs.; (OM3)	12	OM3	24	1	24	FOBX16-N-12LCUD03
Complete wall-mount frame: LC (Duplex) 16 pcs.; (OM3)	16	OM3	32	1	32	FOBX16-N-16LCUD03
Complete wall-mount frame: LC (Duplex) 12 pcs.; (OM4)	12	OM4	24	1	24	FOBX16-N-12LCUD04
Complete wall-mount frame: LC (Duplex) 16 pcs.; (OM4)	16	OM4	32	1	32	FOBX16-N-16LCUD04

A range of wall-mount complete frames with LC adapters (up to 48 adapters)

Name	LC	Pig tale fiber type	Q-ty of pig tales	Q-ty of optic fiber organizers	SCP	Article
Complete wall-mount frame: LC (Duplex) 20 pcs.; (OS2)	20	OS2	40	2	40	FOBX24-N-20LCUD09
Complete wall-mount frame: LC (Duplex) 24 pcs.; (OS2)	24	OS2	48	2	48	FOBX24-N-24LCUD09
Complete wall-mount frame: LC (Duplex) 20 pcs.; (OM2)	20	OM2	40	2	40	FOBX24-N-20LCUD50
Complete wall-mount frame: LC (Duplex) 24 pcs.; (OM2)	24	OM2	48	2	48	FOBX24-N-24LCUD50
Complete wall-mount frame: LC (Duplex) 20 pcs.; (OM3)	20	OM3	40	2	40	FOBX24-N-20LCUD03
Complete wall-mount frame: LC (Duplex) 24 pcs.; (OM3)	24	OM3	48	2	48	FOBX24-N-24LCUD03
Complete wall-mount frame: LC (Duplex) 20 pcs.; (OM4)	20	OM4	40	2	40	FOBX24-N-20LCUD04
Complete wall-mount frame: LC (Duplex) 24 pcs.; (OM4)	24	OM4	48	2	48	FOBX24-N-24LCUD04

Optical adapters

Optical adapters are designed to switch optical patch cords and pig tails. Optical adapters are installed in panels in optic frames, ensuring reliable connection for signal transmission. Optical adapters differ by connection type (ST, SC, FC, LC) and polishing type (UPC and APC). Also optical adapters come in a single or a dual version (Simplex and Duplex).



Specifications

• Adapter type	SC	FC	LC	ST
• Polishing	APC, UPC	UPC	APC, UPC	UPC
• Version	Simplex, Duplex	Simplex	Simplex, Duplex	Simplex
• Color	green, blue	silver	green, blue	silver
• Material	plastic	metal	plastic	metal
• Spigot material	ceramic	ceramic	ceramic	ceramic
• Service life, activations	500	500	500	500
• Insertion attenuation, dB	0.2	0.2	0.2	0.2
• Insertion attenuation at the end of service life	no more than 0.27 dB	no more than 0.27 dB	no more than 0.27 dB	no more than 0.27 dB
• Temperature ranges, °C	-40...+75	-40...+75	-40...+75	-40...+75

Product range

Name	Connector type	Polishing	Version	Article
ITK Through adapter FC-FC, (SM/MM), UPC, (Simplex)	FC-FC	UPC	Simplex	FC1-FCUFCU1C-SM
ITK Through adapter SC-SC, (SM/MM), APC, (Simplex)	SC-SC	APC	Simplex	FC1-SCASCA1C-SM
ITK Through adapter SC-SC, (SM/MM), UPC, (Simplex)	SC-SC	UPC	Simplex	FC1-SCUSCU1C-SM
ITK Through adapter ST-ST, (SM/MM), UPC, (Simplex)	ST-ST	UPC	Simplex	FC1-STUSTU1C-SM
ITK Through adapter LC-LC, (SM/MM), APC, (Duplex)	LC-LC	APC	Duplex	FC1-LCALCA2C-SM
ITK Through adapter LC-LC, (SM/MM), UPC, (Duplex)	LC-LC	UPC	Duplex	FC1-LCULCU2C-SM
ITK Through adapter SC-SC, (SM/MM), APC, (Duplex)	SC-SC	APC	Duplex	FC1-SCASCA2C-SM
ITK Through adapter SC-SC, (SM/MM), UPC, (Duplex)	SC-SC	UPC	Duplex	FC1-SCUSCU2C-SM

Optical sockets, connectors and Keystone Jack modules

Optical sockets and modules allow to establish connection in premises of an end user/subscriber (apartment, office, summer house, etc.) using various types of optic fiber. Multimedia version allows to combine additional switching using a twisted pair.

Standard and multimedia versions of sockets



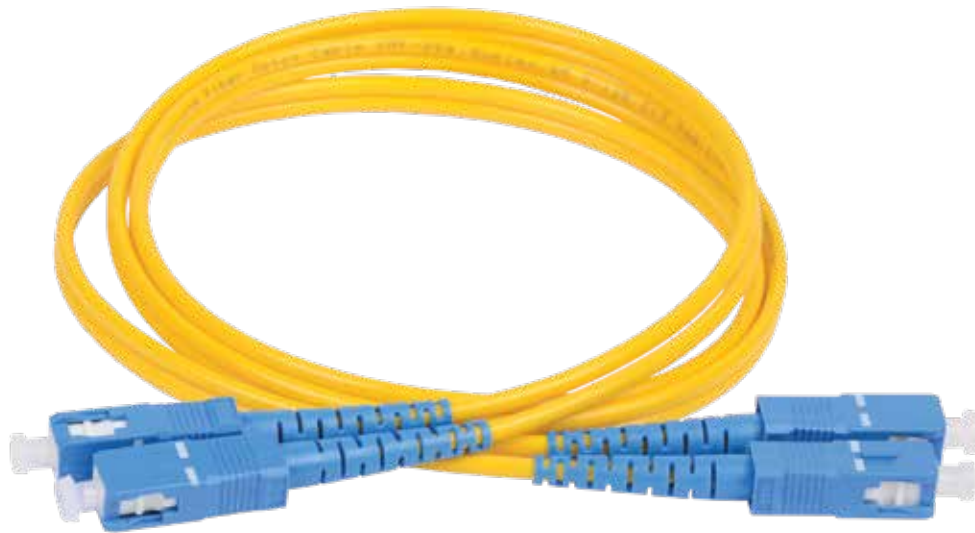
Product range

Name	Connector type	Polishing	Version	Article
Module Keystone Jack ST UPC (Simplex)	ST	UPC	Simplex	CS1-FSTU-1C
Module Keystone Jack SC UPC (Simplex)	SC	UPC	Simplex	CS1-FSCU-1C
Module Keystone Jack LC UPC (Duplex)	LC	UPC	Duplex	CS1-FLCU-2C
Wall-mounted optical socket 2 ports for SC/LC adapters	SC/LC	-	Simplex/Duplex	CS2-FSCLC-22
Multimedia socket, wall-mounted 2 ports for SC/LC adapters and 1 port for KJ module	SC/LC/ Keystone Jack	-	-	CS2-MSCLC-32
Box for multimedia and optical socket, wall-mounted	-	-	-	CS2-FMBB-02

Optical cords (patch cords, pig tails)

Optic communication lines are switched and connected to network and measurement equipment using optical patch cords. An optical patch cord is an optic fiber cable in LSZH outer jacket, terminated by an optic connector; if a cable is terminated only from the one side, this kind of a patch cord is called a pig tail.

ITK optical patch cords and pig tails are produced using high quality components, Corning's fiber, Ferrule Connectors by the Japanese company Adamant.



Advantages



Increased quantity of ON/OFF cycles



Protective outer jacket LSZH



Reliable fixation of input cables



Stable data transmission

Specifications

• Adapter type	FC, SC, ST, LC
• Fiber	SM
• Polishing	APC, UPC
• Insertion loss, dB	$\leq 0.3, \leq 0.2$
• Return loss, dB	$\geq 45, \geq 50$
• Service life	≥ 1000 connections
• Operating temperature, °C	-20 ~ +75
• Storage temperature, °C	-40 ~ +85
• Adapter type	FC, SC, ST, LC
• Fiber	MM
• Polishing	UPC, APC
• Insertion loss, dB	$\leq 0.3, \leq 0.2$
• Return loss, dB	$\geq 60, \geq 30$
• Service life	≥ 1000 connections
• Operating temperature, °C	-20 ~ +75
• Storage temperature, °C	-40 ~ +85

Optical mounting cords (pig tails) single-mode (SM) and multi-mode (MM)

Optical mounting cords (pig tails) are a section of a cable, terminated from one side with a connector, and the other end is connected with a fiber using welding. Mounting cord length – 1.5 m.



Product range

Name	Connector type	Polishing	Fiber type	Article
Optical pig tail, (SM), 9/125 (OS2), FC/UPC, LSZH, 1.5 m	FC	UPC	SM 9/125	FPT09-FCU-C1L-1M5
Optical pig tail, (SM), 9/125 (OS2), LC/UPC, LSZH, 1.5 m	LC	UPC	SM 9/125	FPT09-LCU-C1L-1M5
Optical pig tail, (SM), 9/125 (OS2), SC/UPC, LSZH, 1.5 m	SC	UPC	SM 9/125	FPT09-SCU-C1L-1M5
Optical pig tail, (SM), 9/125 (OS2), ST/UPC, LSZH, 1.5 m	ST	UPC	SM 9/125	FPT09-STU-C1L-1M5
Optical pig tail, (SM), 9/125 (OS2), SC/APC, LSZH, 1.5 m	SC	APC	SM 9/125	FPT09-SCA-C1L-1M5
Optical pig tail, (MM), 50/125 (OM2), LC/UPC, LSZH, 1.5 m	LC	UPC	MM 50/125 (OM2)	FPT50-LCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM2), FC/UPC, LSZH, 1.5 m	FC	UPC	MM 50/125 (OM2)	FPT50-FCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM3), FC/UPC, LSZH, 1.5 m	FC	UPC	MM 50/125 (OM3)	FPT5003-FCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM4), FC/UPC, LSZH, 1.5 m	FC	UPC	MM 50/125 (OM4)	FPT5004-FCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM3), SC/UPC, LSZH, 1.5 m	SC	UPC	MM 50/125 (OM3)	FPT5003-SCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM4), SC/UPC, LSZH, 1.5 m	SC	UPC	MM 50/125 (OM4)	FPT5004-SCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM3), LC/UPC, LSZH, 1.5 m	LC	UPC	MM 50/125 (OM3)	FPT5003-LCU-C1L-1M5
Optical pig tail, (MM), 50/125 (OM4), LC/UPC, LSZH, 1.5 m	LC	UPC	MM 50/125 (OM4)	FPT5004-LCU-C1L-1M5

Optical connection cord (patch cord), multi-mode MM 50/125 (OM4)

Patch cords of this series are made of fiber with enhanced frequency properties – multi-mode fiber 50/125 (OM4), terminated from two sides with similar type of connector. This fiber allows to use these patch cords in data center structures.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 1 m	LC-LC	UPC	Duplex	1	FPC5004-LCU-LCU-C2L-1M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 2 m	LC-LC	UPC	Duplex	2	FPC5004-LCU-LCU-C2L-2M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 3 m	LC-LC	UPC	Duplex	3	FPC5004-LCU-LCU-C2L-3M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 5 m	LC-LC	UPC	Duplex	5	FPC5004-LCU-LCU-C2L-5M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 10 m	LC-LC	UPC	Duplex	10	FPC5004-LCU-LCU-C2L-10M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 15 m	LC-LC	UPC	Duplex	15	FPC5004-LCU-LCU-C2L-15M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 20 m	LC-LC	UPC	Duplex	20	FPC5004-LCU-LCU-C2L-20M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 25 m	LC-LC	UPC	Duplex	25	FPC5004-LCU-LCU-C2L-25M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 30 m	LC-LC	UPC	Duplex	30	FPC5004-LCU-LCU-C2L-30M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 50 m	LC-LC	UPC	Duplex	50	FPC5004-LCU-LCU-C2L-50M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 70 m	LC-LC	UPC	Duplex	70	FPC5004-LCU-LCU-C2L-70M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-LC/UPC, (Duplex), 100 m	LC-LC	UPC	Duplex	100	FPC5004-LCU-LCU-C2L-100M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 1 m	SC-SC	UPC	Duplex	1	FPC5004-SCU-SCU-C2L-1M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 2 m	SC-SC	UPC	Duplex	2	FPC5004-SCU-SCU-C2L-2M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 3 m	SC-SC	UPC	Duplex	3	FPC5004-SCU-SCU-C2L-3M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 5 m	SC-SC	UPC	Duplex	5	FPC5004-SCU-SCU-C2L-5M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 10 m	SC-SC	UPC	Duplex	10	FPC5004-SCU-SCU-C2L-10M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 15 m	SC-SC	UPC	Duplex	15	FPC5004-SCU-SCU-C2L-15M



Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 20 m	SC-SC	UPC	Duplex	20	FPC5004-SCU-SCU-C2L-20M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 25 m	SC-SC	UPC	Duplex	25	FPC5004-SCU-SCU-C2L-25M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 30 m	SC-SC	UPC	Duplex	30	FPC5004-SCU-SCU-C2L-30M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 50 m	SC-SC	UPC	Duplex	50	FPC5004-SCU-SCU-C2L-50M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 70 m	SC-SC	UPC	Duplex	70	FPC5004-SCU-SCU-C2L-70M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-SC/UPC, (Duplex), 100 m	SC-SC	UPC	Duplex	100	FPC5004-SCU-SCU-C2L-100M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 1 m	FC-FC	UPC	Duplex	1	FPC5004-FCU-FCU-C2L-1M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 2 m	FC-FC	UPC	Duplex	2	FPC5004-FCU-FCU-C2L-2M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 3 m	FC-FC	UPC	Duplex	3	FPC5004-FCU-FCU-C2L-3M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 5 m	FC-FC	UPC	Duplex	5	FPC5004-FCU-FCU-C2L-5M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 10 m	FC-FC	UPC	Duplex	10	FPC5004-FCU-FCU-C2L-10M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 15 m	FC-FC	UPC	Duplex	15	FPC5004-FCU-FCU-C2L-15M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 20 m	FC-FC	UPC	Duplex	20	FPC5004-FCU-FCU-C2L-20M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 25 m	FC-FC	UPC	Duplex	25	FPC5004-FCU-FCU-C2L-25M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 30 m	FC-FC	UPC	Duplex	30	FPC5004-FCU-FCU-C2L-30M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 50 m	FC-FC	UPC	Duplex	50	FPC5004-FCU-FCU-C2L-50M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 70 m	FC-FC	UPC	Duplex	70	FPC5004-FCU-FCU-C2L-70M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-FC/UPC, (Duplex), 100 m	FC-FC	UPC	Duplex	100	FPC5004-FCU-FCU-C2L-100M

Optical cross cord (patch cord), multi-mode MM 50/125 (OM4)

Patch cords of this series are made of fiber with enhanced frequency properties – multi-mode fiber 50/125 (OM4), terminated with different types of connector. This fiber allows to use these patch cords in data center structures.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 1 m	LC-SC	UPC	Duplex	1	FPC5004-LCU-SCU-C2L-1M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 2 m	LC-SC	UPC	Duplex	2	FPC5004-LCU-SCU-C2L-2M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 3 m	LC-SC	UPC	Duplex	3	FPC5004-LCU-SCU-C2L-3M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 5 m	LC-SC	UPC	Duplex	5	FPC5004-LCU-SCU-C2L-5M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 10 m	LC-SC	UPC	Duplex	10	FPC5004-LCU-SCU-C2L-10M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 15 m	LC-SC	UPC	Duplex	15	FPC5004-LCU-SCU-C2L-15M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 20 m	LC-SC	UPC	Duplex	20	FPC5004-LCU-SCU-C2L-20M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 25 m	LC-SC	UPC	Duplex	25	FPC5004-LCU-SCU-C2L-25M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 30 m	LC-SC	UPC	Duplex	30	FPC5004-LCU-SCU-C2L-30M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 50 m	LC-SC	UPC	Duplex	50	FPC5004-LCU-SCU-C2L-50M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 70 m	LC-SC	UPC	Duplex	70	FPC5004-LCU-SCU-C2L-70M
Optical patch cord, MM, 50/125 (OM4), LC/UPC-SC/UPC, (Duplex), 100 m	LC-SC	UPC	Duplex	100	FPC5004-LCU-SCU-C2L-100M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 1 m	FC-LC	UPC	Duplex	1	FPC5004-FCU-LCU-C2L-1M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 2 m	FC-LC	UPC	Duplex	2	FPC5004-FCU-LCU-C2L-2M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 3 m	FC-LC	UPC	Duplex	3	FPC5004-FCU-LCU-C2L-3M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 5 m	FC-LC	UPC	Duplex	5	FPC5004-FCU-LCU-C2L-5M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 10 m	FC-LC	UPC	Duplex	10	FPC5004-FCU-LCU-C2L-10M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 15 m	FC-LC	UPC	Duplex	15	FPC5004-FCU-LCU-C2L-15M



Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 20 m	FC-LC	UPC	Duplex	20	FPC5004-FCU-LCU-C2L-20M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 25 m	FC-LC	UPC	Duplex	25	FPC5004-FCU-LCU-C2L-25M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 30 m	FC-LC	UPC	Duplex	30	FPC5004-FCU-LCU-C2L-30M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 50 m	FC-LC	UPC	Duplex	50	FPC5004-FCU-LCU-C2L-50M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 70 m	FC-LC	UPC	Duplex	70	FPC5004-FCU-LCU-C2L-70M
Optical patch cord, MM, 50/125 (OM4), FC/UPC-LC/UPC, (Duplex), 100 m	FC-LC	UPC	Duplex	100	FPC5004-FCU-LCU-C2L-100M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 1 m	SC-FC	UPC	Duplex	1	FPC5004-SCU-FCU-C2L-1M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 2 m	SC-FC	UPC	Duplex	2	FPC5004-SCU-FCU-C2L-2M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 3 m	SC-FC	UPC	Duplex	3	FPC5004-SCU-FCU-C2L-3M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 5 m	SC-FC	UPC	Duplex	5	FPC5004-SCU-FCU-C2L-5M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 10 m	SC-FC	UPC	Duplex	10	FPC5004-SCU-FCU-C2L-10M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 15 m	SC-FC	UPC	Duplex	15	FPC5004-SCU-FCU-C2L-15M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 20 m	SC-FC	UPC	Duplex	20	FPC5004-SCU-FCU-C2L-20M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 25 m	SC-FC	UPC	Duplex	25	FPC5004-SCU-FCU-C2L-25M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 30 m	SC-FC	UPC	Duplex	30	FPC5004-SCU-FCU-C2L-30M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 50 m	SC-FC	UPC	Duplex	50	FPC5004-SCU-FCU-C2L-50M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 70 m	SC-FC	UPC	Duplex	70	FPC5004-SCU-FCU-C2L-70M
Optical patch cord, MM, 50/125 (OM4), SC/UPC-FC/UPC, (Duplex), 100 m	SC-FC	UPC	Duplex	100	FPC5004-SCU-FCU-C2L-100M

Optical connection cord (patch cord), multi-mode MM 50/125 (OM3)

Patch cords of this series are made of fiber, supporting data transmission at 10 Gb/s bandwidth on a distance up to 550 m – multi-mode fiber 50/125 (OM3), terminated from two sides using similar kind of connectors.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 1 m	LC-LC	UPC	Duplex	1	FPC5003-LCU-LCU-C2L-1M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 2 m	LC-LC	UPC	Duplex	2	FPC5003-LCU-LCU-C2L-2M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 3 m	LC-LC	UPC	Duplex	3	FPC5003-LCU-LCU-C2L-3M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 5 m	LC-LC	UPC	Duplex	5	FPC5003-LCU-LCU-C2L-5M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 10 m	LC-LC	UPC	Duplex	10	FPC5003-LCU-LCU-C2L-10M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 15 m	LC-LC	UPC	Duplex	15	FPC5003-LCU-LCU-C2L-15M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 20 m	LC-LC	UPC	Duplex	20	FPC5003-LCU-LCU-C2L-20M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 25 m	LC-LC	UPC	Duplex	25	FPC5003-LCU-LCU-C2L-25M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 30 m	LC-LC	UPC	Duplex	30	FPC5003-LCU-LCU-C2L-30M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 50 m	LC-LC	UPC	Duplex	50	FPC5003-LCU-LCU-C2L-50M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 70 m	LC-LC	UPC	Duplex	70	FPC5003-LCU-LCU-C2L-70M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-LC/UPC, (Duplex), 100 m	LC-LC	UPC	Duplex	100	FPC5003-LCU-LCU-C2L-100M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 1 m	SC-SC	UPC	Duplex	1	FPC5003-SCU-SCU-C2L-1M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 2 m	SC-SC	UPC	Duplex	2	FPC5003-SCU-SCU-C2L-2M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 3 m	SC-SC	UPC	Duplex	3	FPC5003-SCU-SCU-C2L-3M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 5 m	SC-SC	UPC	Duplex	5	FPC5003-SCU-SCU-C2L-5M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 10 m	SC-SC	UPC	Duplex	10	FPC5003-SCU-SCU-C2L-10M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 15 m	SC-SC	UPC	Duplex	15	FPC5003-SCU-SCU-C2L-15M



Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 20 m	SC-SC	UPC	Duplex	20	FPC5003-SCU-SCU-C2L-20M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 25 m	SC-SC	UPC	Duplex	25	FPC5003-SCU-SCU-C2L-25M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 30 m	SC-SC	UPC	Duplex	30	FPC5003-SCU-SCU-C2L-30M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 50 m	SC-SC	UPC	Duplex	50	FPC5003-SCU-SCU-C2L-50M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 70 m	SC-SC	UPC	Duplex	70	FPC5003-SCU-SCU-C2L-70M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-SC/UPC, (Duplex), 100 m	SC-SC	UPC	Duplex	100	FPC5003-SCU-SCU-C2L-100M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 1 m	FC-FC	UPC	Duplex	1	FPC5003-FCU-FCU-C2L-1M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 2 m	FC-FC	UPC	Duplex	2	FPC5003-FCU-FCU-C2L-2M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 3 m	FC-FC	UPC	Duplex	3	FPC5003-FCU-FCU-C2L-3M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 5 m	FC-FC	UPC	Duplex	5	FPC5003-FCU-FCU-C2L-5M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 10 m	FC-FC	UPC	Duplex	10	FPC5003-FCU-FCU-C2L-10M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 15 m	FC-FC	UPC	Duplex	15	FPC5003-FCU-FCU-C2L-15M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 20 m	FC-FC	UPC	Duplex	20	FPC5003-FCU-FCU-C2L-20M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 25 m	FC-FC	UPC	Duplex	25	FPC5003-FCU-FCU-C2L-25M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 30 m	FC-FC	UPC	Duplex	30	FPC5003-FCU-FCU-C2L-30M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 50 m	FC-FC	UPC	Duplex	50	FPC5003-FCU-FCU-C2L-50M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 70 m	FC-FC	UPC	Duplex	70	FPC5003-FCU-FCU-C2L-70M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-FC/UPC, (Duplex), 100 m	FC-FC	UPC	Duplex	100	FPC5003-FCU-FCU-C2L-100M

Optical cross cord (patch cord), multi-mode MM 50/125 (OM3)

Patch cords of this series are made of fiber, supporting data transmission at 10 Gb/s bandwidth on a distance up to 550 m – multi-mode fiber 50/125 (OM3), terminated using different kinds of connectors.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 1 m	LC-SC	UPC	Duplex	1	FPC5003-LCU-SCU-C2L-1M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 2 m	LC-SC	UPC	Duplex	2	FPC5003-LCU-SCU-C2L-2M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 3 m	LC-SC	UPC	Duplex	3	FPC5003-LCU-SCU-C2L-3M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 5 m	LC-SC	UPC	Duplex	5	FPC5003-LCU-SCU-C2L-5M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 10 m	LC-SC	UPC	Duplex	10	FPC5003-LCU-SCU-C2L-10M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 15 m	LC-SC	UPC	Duplex	15	FPC5003-LCU-SCU-C2L-15M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 20 m	LC-SC	UPC	Duplex	20	FPC5003-LCU-SCU-C2L-20M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 25 m	LC-SC	UPC	Duplex	25	FPC5003-LCU-SCU-C2L-25M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 30 m	LC-SC	UPC	Duplex	30	FPC5003-LCU-SCU-C2L-30M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 50 m	LC-SC	UPC	Duplex	50	FPC5003-LCU-SCU-C2L-50M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 70 m	LC-SC	UPC	Duplex	70	FPC5003-LCU-SCU-C2L-70M
Optical patch cord, MM, 50/125 (OM3), LC/UPC-SC/UPC, (Duplex), 100 m	LC-SC	UPC	Duplex	100	FPC5003-LCU-SCU-C2L-100M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 1 m	FC-LC	UPC	Duplex	1	FPC5003-FCU-LCU-C2L-1M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 2 m	FC-LC	UPC	Duplex	2	FPC5003-FCU-LCU-C2L-2M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 3 m	FC-LC	UPC	Duplex	3	FPC5003-FCU-LCU-C2L-3M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 5 m	FC-LC	UPC	Duplex	5	FPC5003-FCU-LCU-C2L-5M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 10 m	FC-LC	UPC	Duplex	10	FPC5003-FCU-LCU-C2L-10M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 15 m	FC-LC	UPC	Duplex	15	FPC5003-FCU-LCU-C2L-15M



Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 20 m	FC-LC	UPC	Duplex	20	FPC5003-FCU-LCU-C2L-20M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 25 m	FC-LC	UPC	Duplex	25	FPC5003-FCU-LCU-C2L-25M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 30 m	FC-LC	UPC	Duplex	30	FPC5003-FCU-LCU-C2L-30M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 50 m	FC-LC	UPC	Duplex	50	FPC5003-FCU-LCU-C2L-50M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 70 m	FC-LC	UPC	Duplex	70	FPC5003-FCU-LCU-C2L-70M
Optical patch cord, MM, 50/125 (OM3), FC/UPC-LC/UPC, (Duplex), 100 m	FC-LC	UPC	Duplex	100	FPC5003-FCU-LCU-C2L-100M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 1 m	SC-FC	UPC	Duplex	1	FPC5003-SCU-FCU-C2L-1M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 2 m	SC-FC	UPC	Duplex	2	FPC5003-SCU-FCU-C2L-2M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 3 m	SC-FC	UPC	Duplex	3	FPC5003-SCU-FCU-C2L-3M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 5 m	SC-FC	UPC	Duplex	5	FPC5003-SCU-FCU-C2L-5M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 10 m	SC-FC	UPC	Duplex	10	FPC5003-SCU-FCU-C2L-10M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 15 m	SC-FC	UPC	Duplex	15	FPC5003-SCU-FCU-C2L-15M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 20 m	SC-FC	UPC	Duplex	20	FPC5003-SCU-FCU-C2L-20M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 25 m	SC-FC	UPC	Duplex	25	FPC5003-SCU-FCU-C2L-25M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 30 m	SC-FC	UPC	Duplex	30	FPC5003-SCU-FCU-C2L-30M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 50 m	SC-FC	UPC	Duplex	50	FPC5003-SCU-FCU-C2L-50M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 70 m	SC-FC	UPC	Duplex	70	FPC5003-SCU-FCU-C2L-70M
Optical patch cord, MM, 50/125 (OM3), SC/UPC-FC/UPC, (Duplex), 100 m	SC-FC	UPC	Duplex	100	FPC5003-SCU-FCU-C2L-100M

Optical connection cord (patch cord), multi-mode MM 50/125 (OM2)

Patch cords of this series are made of multi-mode fiber 50/125 (OM2), terminated from two sides using similar kind of connectors.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 1 m	LC-LC	UPC	Duplex	1	FPC50-LCU-LCU-C2L-1M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 2 m	LC-LC	UPC	Duplex	2	FPC50-LCU-LCU-C2L-2M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 3 m	LC-LC	UPC	Duplex	3	FPC50-LCU-LCU-C2L-3M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 5 m	LC-LC	UPC	Duplex	5	FPC50-LCU-LCU-C2L-5M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 10 m	LC-LC	UPC	Duplex	10	FPC50-LCU-LCU-C2L-10M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 15 m	LC-LC	UPC	Duplex	15	FPC50-LCU-LCU-C2L-15M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 20 m	LC-LC	UPC	Duplex	20	FPC50-LCU-LCU-C2L-20M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 25 m	LC-LC	UPC	Duplex	25	FPC50-LCU-LCU-C2L-25M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 30 m	LC-LC	UPC	Duplex	30	FPC50-LCU-LCU-C2L-30M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 50 m	LC-LC	UPC	Duplex	50	FPC50-LCU-LCU-C2L-50M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 70 m	LC-LC	UPC	Duplex	70	FPC50-LCU-LCU-C2L-70M
Optical patch cord, MM, 50/125 (OM2), LC/UPC-LC/UPC, (Duplex), 100 m	LC-LC	UPC	Duplex	100	FPC50-LCU-LCU-C2L-100M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 1 m	SC-SC	UPC	Duplex	1	FPC50-SCU-SCU-C2L-1M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 2 m	SC-SC	UPC	Duplex	2	FPC50-SCU-SCU-C2L-2M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 3 m	SC-SC	UPC	Duplex	3	FPC50-SCU-SCU-C2L-3M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 5 m	SC-SC	UPC	Duplex	5	FPC50-SCU-SCU-C2L-5M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 10 m	SC-SC	UPC	Duplex	10	FPC50-SCU-SCU-C2L-10M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 15 m	SC-SC	UPC	Duplex	15	FPC50-SCU-SCU-C2L-15M



Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 20 m	SC-SC	UPC	Duplex	20	FPC50-SCU-SCU-C2L-20M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 25 m	SC-SC	UPC	Duplex	25	FPC50-SCU-SCU-C2L-25M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 30 m	SC-SC	UPC	Duplex	30	FPC50-SCU-SCU-C2L-30M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 50 m	SC-SC	UPC	Duplex	50	FPC50-SCU-SCU-C2L-50M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 70 m	SC-SC	UPC	Duplex	70	FPC50-SCU-SCU-C2L-70M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 100 m	SC-SC	UPC	Duplex	100	FPC50-SCU-SCU-C2L-100M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 1 m	FC-FC	UPC	Duplex	1	FPC50-FCU-FCU-C2L-1M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 2 m	FC-FC	UPC	Duplex	2	FPC50-FCU-FCU-C2L-2M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 3 m	FC-FC	UPC	Duplex	3	FPC50-FCU-FCU-C2L-3M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 5 m	FC-FC	UPC	Duplex	5	FPC50-FCU-FCU-C2L-5M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 10 m	FC-FC	UPC	Duplex	10	FPC50-FCU-FCU-C2L-10M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 15 m	FC-FC	UPC	Duplex	15	FPC50-FCU-FCU-C2L-15M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 20 m	FC-FC	UPC	Duplex	20	FPC50-FCU-FCU-C2L-20M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 25 m	FC-FC	UPC	Duplex	25	FPC50-FCU-FCU-C2L-25M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 30 m	FC-FC	UPC	Duplex	30	FPC50-FCU-FCU-C2L-30M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 50 m	FC-FC	UPC	Duplex	50	FPC50-FCU-FCU-C2L-50M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 70 m	FC-FC	UPC	Duplex	70	FPC50-FCU-FCU-C2L-70M
Optical patch cord, MM, 50/125 (OM2), FC/UPC-FC/UPC, (Duplex), 100 m	FC-FC	UPC	Duplex	100	FPC50-FCU-FCU-C2L-100M

Optical cross cord (patch cord), multi-mode MM 50/125 (OM2)

Patch cords of this series are made of multi-mode fiber 50/125 (OM2), terminated using different kinds of connectors.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 1 m	SC-LC	UPC	Duplex	1	FPC50-SCU-LCU-C2L-1M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 2 m	SC-LC	UPC	Duplex	2	FPC50-SCU-LCU-C2L-2M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 3 m	SC-LC	UPC	Duplex	3	FPC50-SCU-LCU-C2L-3M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 5 m	SC-LC	UPC	Duplex	5	FPC50-SCU-LCU-C2L-5M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 10 m	SC-LC	UPC	Duplex	10	FPC50-SCU-LCU-C2L-10M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 15 m	SC-LC	UPC	Duplex	15	FPC50-SCU-LCU-C2L-15M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 20 m	SC-LC	UPC	Duplex	20	FPC50-SCU-LCU-C2L-20M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 25 m	SC-LC	UPC	Duplex	25	FPC50-SCU-LCU-C2L-25M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 30 m	SC-LC	UPC	Duplex	30	FPC50-SCU-LCU-C2L-30M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 50 m	SC-LC	UPC	Duplex	50	FPC50-SCU-LCU-C2L-50M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 70 m	SC-LC	UPC	Duplex	70	FPC50-SCU-LCU-C2L-70M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-LC/UPC, (Duplex), 100 m	SC-LC	UPC	Duplex	100	FPC50-SCU-LCU-C2L-100M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 1 m	SC-SC	UPC	Duplex	1	FPC50-SCU-SCU-C2L-1M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 2 m	SC-SC	UPC	Duplex	2	FPC50-SCU-SCU-C2L-2M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 3 m	SC-SC	UPC	Duplex	3	FPC50-SCU-SCU-C2L-3M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 5 m	SC-SC	UPC	Duplex	5	FPC50-SCU-SCU-C2L-5M
Optical patch cord, MM, 50/125 (OM2), SC/UPC-SC/UPC, (Duplex), 10 m	SC-SC	UPC	Duplex	10	FPC50-SCU-SCU-C2L-10M

Optical connection cord (patch cord), single-mode SM 9/125 (OS2)

Patch cords of this series are made of single-mode fiber G.652, terminated from two sides using similar kind of connectors.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 1 m	LC-LC	UPC	Simplex	1	FPC09-LCU-LCU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 2 m	LC-LC	UPC	Simplex	2	FPC09-LCU-LCU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 3 m	LC-LC	UPC	Simplex	3	FPC09-LCU-LCU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 5 m	LC-LC	UPC	Simplex	5	FPC09-LCU-LCU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 10 m	LC-LC	UPC	Simplex	10	FPC09-LCU-LCU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 15 m	LC-LC	UPC	Simplex	15	FPC09-LCU-LCU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 20 m	LC-LC	UPC	Simplex	20	FPC09-LCU-LCU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 25 m	LC-LC	UPC	Simplex	25	FPC09-LCU-LCU-C1L-25M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 30 m	LC-LC	UPC	Simplex	30	FPC09-LCU-LCU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 50 m	LC-LC	UPC	Simplex	50	FPC09-LCU-LCU-C1L-50M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 70 m	LC-LC	UPC	Simplex	70	FPC09-LCU-LCU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Simplex), 100 m	LC-LC	UPC	Simplex	100	FPC09-LCU-LCU-C1L-100M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 1 m	LC-LC	UPC	Duplex	1	FPC09-LCU-LCU-C2L-1M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 2 m	LC-LC	UPC	Duplex	2	FPC09-LCU-LCU-C2L-2M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 3 m	LC-LC	UPC	Duplex	3	FPC09-LCU-LCU-C2L-3M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 5 m	LC-LC	UPC	Duplex	5	FPC09-LCU-LCU-C2L-5M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 10 m	LC-LC	UPC	Duplex	10	FPC09-LCU-LCU-C2L-10M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 15 m	LC-LC	UPC	Duplex	15	FPC09-LCU-LCU-C2L-15M

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 20 m	LC-LC	UPC	Duplex	20	FPC09-LCU-LCU-C2L-20M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 25 m	LC-LC	UPC	Duplex	25	FPC09-LCU-LCU-C2L-25M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 30 m	LC-LC	UPC	Duplex	30	FPC09-LCU-LCU-C2L-30M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 50 m	LC-LC	UPC	Duplex	50	FPC09-LCU-LCU-C2L-50M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 70 m	LC-LC	UPC	Duplex	70	FPC09-LCU-LCU-C2L-70M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-LC/UPC, (Duplex), 100 m	LC-LC	UPC	Duplex	100	FPC09-LCU-LCU-C2L-100M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 1 m	SC-SC	UPC	Simplex	1	FPC09-SCU-SCU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 2 m	SC-SC	UPC	Simplex	2	FPC09-SCU-SCU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 3 m	SC-SC	UPC	Simplex	3	FPC09-SCU-SCU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 5 m	SC-SC	UPC	Simplex	5	FPC09-SCU-SCU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 10 m	SC-SC	UPC	Simplex	10	FPC09-SCU-SCU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 15 m	SC-SC	UPC	Simplex	15	FPC09-SCU-SCU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 20 m	SC-SC	UPC	Simplex	20	FPC09-SCU-SCU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 25 m	SC-SC	UPC	Simplex	25	FPC09-SCU-SCU-C1L-25M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 30 m	SC-SC	UPC	Simplex	30	FPC09-SCU-SCU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 50 m	SC-SC	UPC	Simplex	50	FPC09-SCU-SCU-C1L-50M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 70 m	SC-SC	UPC	Simplex	70	FPC09-SCU-SCU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Simplex), 100 m	SC-SC	UPC	Simplex	100	FPC09-SCU-SCU-C1L-100M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 1 m	SC-SC	APC	Simplex	1	FPC09-SCA-SCA-C1L-1M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 2 m	SC-SC	APC	Simplex	2	FPC09-SCA-SCA-C1L-2M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 3 m	SC-SC	APC	Simplex	3	FPC09-SCA-SCA-C1L-3M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 5 m	SC-SC	APC	Simplex	5	FPC09-SCA-SCA-C1L-5M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 10 m	SC-SC	APC	Simplex	10	FPC09-SCA-SCA-C1L-10M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 15 m	SC-SC	APC	Simplex	15	FPC09-SCA-SCA-C1L-15M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 20 m	SC-SC	APC	Simplex	20	FPC09-SCA-SCA-C1L-20M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 25 m	SC-SC	APC	Simplex	25	FPC09-SCA-SCA-C1L-25M

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 30 m	SC-SC	APC	Simplex	30	FPC09-SCA-SCA-C1L-30M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 50 m	SC-SC	APC	Simplex	50	FPC09-SCA-SCA-C1L-50M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 70 m	SC-SC	APC	Simplex	70	FPC09-SCA-SCA-C1L-70M
Optical patch cord, SM, 9/125 (OS2), SC/APC-SC/APC, (Simplex), 100 m	SC-SC	APC	Simplex	100	FPC09-SCA-SCA-C1L-100M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 1 m	SC-SC	APC-UPC	Simplex	1	FPC09-SCU-SCA-C1L-1M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 2 m	SC-SC	APC-UPC	Simplex	2	FPC09-SCU-SCA-C1L-2M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 3 m	SC-SC	APC-UPC	Simplex	3	FPC09-SCU-SCA-C1L-3M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 5 m	SC-SC	APC-UPC	Simplex	5	FPC09-SCU-SCA-C1L-5M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 10 m	SC-SC	APC-UPC	Simplex	10	FPC09-SCU-SCA-C1L-10M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 15 m	SC-SC	APC-UPC	Simplex	15	FPC09-SCU-SCA-C1L-15M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 20 m	SC-SC	APC-UPC	Simplex	20	FPC09-SCU-SCA-C1L-20M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 25 m	SC-SC	APC-UPC	Simplex	25	FPC09-SCU-SCA-C1L-25M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 30 m	SC-SC	APC-UPC	Simplex	30	FPC09-SCU-SCA-C1L-30M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 50 m	SC-SC	APC-UPC	Simplex	50	FPC09-SCU-SCA-C1L-50M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 70 m	SC-SC	APC-UPC	Simplex	70	FPC09-SCU-SCA-C1L-70M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/APC, (Simplex), 100 m	SC-SC	APC-UPC	Simplex	100	FPC09-SCU-SCA-C1L-100M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 1 m	SC-SC	UPC	Duplex	1	FPC09-SCU-SCU-C2L-1M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 2 m	SC-SC	UPC	Duplex	2	FPC09-SCU-SCU-C2L-2M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 3 m	SC-SC	UPC	Duplex	3	FPC09-SCU-SCU-C2L-3M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 5 m	SC-SC	UPC	Duplex	5	FPC09-SCU-SCU-C2L-5M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 10 m	SC-SC	UPC	Duplex	10	FPC09-SCU-SCU-C2L-10M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 15 m	SC-SC	UPC	Duplex	15	FPC09-SCU-SCU-C2L-15M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 20 m	SC-SC	UPC	Duplex	20	FPC09-SCU-SCU-C2L-20M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 25 m	SC-SC	UPC	Duplex	25	FPC09-SCU-SCU-C2L-25M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 30 m	SC-SC	UPC	Duplex	30	FPC09-SCU-SCU-C2L-30M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 50 m	SC-SC	UPC	Duplex	50	FPC09-SCU-SCU-C2L-50M

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 70 m	SC-SC	UPC	Duplex	70	FPC09-SCU-SCU-C2L-70M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-SC/UPC, (Duplex), 100 m	SC-SC	UPC	Duplex	100	FPC09-SCU-SCU-C2L-100M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 1 m	FC-FC	UPC	Simplex	1	FPC09-FCU-FCU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 2 m	FC-FC	UPC	Simplex	2	FPC09-FCU-FCU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 3 m	FC-FC	UPC	Simplex	3	FPC09-FCU-FCU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 5 m	FC-FC	UPC	Simplex	5	FPC09-FCU-FCU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 10 m	FC-FC	UPC	Simplex	10	FPC09-FCU-FCU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 15 m	FC-FC	UPC	Simplex	15	FPC09-FCU-FCU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 20 m	FC-FC	UPC	Simplex	20	FPC09-FCU-FCU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 25 m	FC-FC	UPC	Simplex	25	FPC09-FCU-FCU-C1L-25M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 30 m	FC-FC	UPC	Simplex	30	FPC09-FCU-FCU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 50 m	FC-FC	UPC	Simplex	50	FPC09-FCU-FCU-C1L-50M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 70 m	FC-FC	UPC	Simplex	70	FPC09-FCU-FCU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Simplex), 100 m	FC-FC	UPC	Simplex	100	FPC09-FCU-FCU-C1L-100M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 1 m	FC-FC	UPC	Duplex	1	FPC09-FCU-FCU-C2L-1M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 2 m	FC-FC	UPC	Duplex	2	FPC09-FCU-FCU-C2L-2M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 3 m	FC-FC	UPC	Duplex	3	FPC09-FCU-FCU-C2L-3M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 5 m	FC-FC	UPC	Duplex	5	FPC09-FCU-FCU-C2L-5M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 10 m	FC-FC	UPC	Duplex	10	FPC09-FCU-FCU-C2L-10M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 15 m	FC-FC	UPC	Duplex	15	FPC09-FCU-FCU-C2L-15M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 20 m	FC-FC	UPC	Duplex	20	FPC09-FCU-FCU-C2L-20M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 25 m	FC-FC	UPC	Duplex	25	FPC09-FCU-FCU-C2L-25M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 30 m	FC-FC	UPC	Duplex	30	FPC09-FCU-FCU-C2L-30M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 50 m	FC-FC	UPC	Duplex	50	FPC09-FCU-FCU-C2L-50M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 70 m	FC-FC	UPC	Duplex	70	FPC09-FCU-FCU-C2L-70M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-FC/UPC, (Duplex), 100 m	FC-FC	UPC	Duplex	100	FPC09-FCU-FCU-C2L-100M

Optical cross cord (patch cord), single-mode SM 9/125 (OS2)

Patch cords of this series are made of single-mode fiber G.652, terminated using different kinds of connectors.



Product range

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 1 m	LC-SC	UPC	Simplex	1	FPC09-LCU-SCU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 2 m	LC-SC	UPC	Simplex	2	FPC09-LCU-SCU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 3 m	LC-SC	UPC	Simplex	3	FPC09-LCU-SCU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 5 m	LC-SC	UPC	Simplex	5	FPC09-LCU-SCU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 10 m	LC-SC	UPC	Simplex	10	FPC09-LCU-SCU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 15 m	LC-SC	UPC	Simplex	15	FPC09-LCU-SCU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 20 m	LC-SC	UPC	Simplex	20	FPC09-LCU-SCU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 25 m	LC-SC	UPC	Simplex	25	FPC09-LCU-SCU-C1L-25M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 30 m	LC-SC	UPC	Simplex	30	FPC09-LCU-SCU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 50 m	LC-SC	UPC	Simplex	50	FPC09-LCU-SCU-C1L-50M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 70 m	LC-SC	UPC	Simplex	70	FPC09-LCU-SCU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Simplex), 100 m	LC-SC	UPC	Simplex	100	FPC09-LCU-SCU-C1L-100M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 1 m	LC-SC	UPC	Duplex	1	FPC09-LCU-SCU-C2L-1M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 2 m	LC-SC	UPC	Duplex	2	FPC09-LCU-SCU-C2L-2M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 3 m	LC-SC	UPC	Duplex	3	FPC09-LCU-SCU-C2L-3M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 5 m	LC-SC	UPC	Duplex	5	FPC09-LCU-SCU-C2L-5M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 10 m	LC-SC	UPC	Duplex	10	FPC09-LCU-SCU-C2L-10M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 15 m	LC-SC	UPC	Duplex	15	FPC09-LCU-SCU-C2L-15M

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 20 m	LC-SC	UPC	Duplex	20	FPC09-LCU-SCU-C2L-20M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 25 m	LC-SC	UPC	Duplex	25	FPC09-LCU-SCU-C2L-25M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 30 m	LC-SC	UPC	Duplex	30	FPC09-LCU-SCU-C2L-30M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 50 m	LC-SC	UPC	Duplex	50	FPC09-LCU-SCU-C2L-50M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 70 m	LC-SC	UPC	Duplex	70	FPC09-LCU-SCU-C2L-70M
Optical patch cord, SM, 9/125 (OS2), LC/UPC-SC/UPC, (Duplex), 100 m	LC-SC	UPC	Duplex	100	FPC09-LCU-SCU-C2L-100M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 1 m	LC-SC	APC	Duplex	1	FPC09-SCA-LCA-C2L-1M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 2 m	LC-SC	APC	Duplex	2	FPC09-SCA-LCA-C2L-2M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 3 m	LC-SC	APC	Duplex	3	FPC09-SCA-LCA-C2L-3M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 5 m	LC-SC	APC	Duplex	5	FPC09-SCA-LCA-C2L-5M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 10 m	LC-SC	APC	Duplex	10	FPC09-SCA-LCA-C2L-10M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 15 m	LC-SC	APC	Duplex	15	FPC09-SCA-LCA-C2L-15M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 20 m	LC-SC	APC	Duplex	20	FPC09-SCA-LCA-C2L-20M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 25 m	LC-SC	APC	Duplex	25	FPC09-SCA-LCA-C2L-25M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 30 m	LC-SC	APC	Duplex	30	FPC09-SCA-LCA-C2L-30M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 50 m	LC-SC	APC	Duplex	50	FPC09-SCA-LCA-C2L-50M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 70 m	LC-SC	APC	Duplex	70	FPC09-SCA-LCA-C2L-70M
Optical patch cord, SM, 9/125 (OS2), SC/APC-LC/APC, (Duplex), 100 m	LC-SC	APC	Duplex	100	FPC09-SCA-LCA-C2L-100M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 1 m	FC-LC	UPC	Simplex	1	FPC09-FCU-LCU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 2 m	FC-LC	UPC	Simplex	2	FPC09-FCU-LCU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 3 m	FC-LC	UPC	Simplex	3	FPC09-FCU-LCU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 5 m	FC-LC	UPC	Simplex	5	FPC09-FCU-LCU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 10 m	FC-LC	UPC	Simplex	10	FPC09-FCU-LCU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 15 m	FC-LC	UPC	Simplex	15	FPC09-FCU-LCU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 20 m	FC-LC	UPC	Simplex	20	FPC09-FCU-LCU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 25 m	FC-LC	UPC	Simplex	25	FPC09-FCU-LCU-C1L-25M

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 30 m	FC-LC	UPC	Simplex	30	FPC09-FCU-LCU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 50 m	FC-LC	UPC	Simplex	50	FPC09-FCU-LCU-C1L-50M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 70 m	FC-LC	UPC	Simplex	70	FPC09-FCU-LCU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Simplex), 100 m	FC-LC	UPC	Simplex	100	FPC09-FCU-LCU-C1L-100M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 1 m	FC-LC	UPC	Duplex	1	FPC09-FCU-LCU-C2L-1M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 2 m	FC-LC	UPC	Duplex	2	FPC09-FCU-LCU-C2L-2M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 3 m	FC-LC	UPC	Duplex	3	FPC09-FCU-LCU-C2L-3M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 5 m	FC-LC	UPC	Duplex	5	FPC09-FCU-LCU-C2L-5M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 10 m	FC-LC	UPC	Duplex	10	FPC09-FCU-LCU-C2L-10M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 15 m	FC-LC	UPC	Duplex	15	FPC09-FCU-LCU-C2L-15M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 20 m	FC-LC	UPC	Duplex	20	FPC09-FCU-LCU-C2L-20M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 25 m	FC-LC	UPC	Duplex	25	FPC09-FCU-LCU-C2L-25M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 30 m	FC-LC	UPC	Duplex	30	FPC09-FCU-LCU-C2L-30M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 50 m	FC-LC	UPC	Duplex	50	FPC09-FCU-LCU-C2L-50M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 70 m	FC-LC	UPC	Duplex	70	FPC09-FCU-LCU-C2L-70M
Optical patch cord, SM, 9/125 (OS2), FC/UPC-LC/UPC, (Duplex), 100 m	FC-LC	UPC	Duplex	100	FPC09-FCU-LCU-C2L-100M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 1 m	SC-FC	UPC	Simplex	1	FPC09-SCU-FCU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 2 m	SC-FC	UPC	Simplex	2	FPC09-SCU-FCU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 3 m	SC-FC	UPC	Simplex	3	FPC09-SCU-FCU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 5 m	SC-FC	UPC	Simplex	5	FPC09-SCU-FCU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 10 m	SC-FC	UPC	Simplex	10	FPC09-SCU-FCU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 15 m	SC-FC	UPC	Simplex	15	FPC09-SCU-FCU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 20 m	SC-FC	UPC	Simplex	20	FPC09-SCU-FCU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 25 m	SC-FC	UPC	Simplex	25	FPC09-SCU-FCU-C1L-25M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 30 m	SC-FC	UPC	Simplex	30	FPC09-SCU-FCU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 50 m	SC-FC	UPC	Simplex	50	FPC09-SCU-FCU-C1L-50M

Name	Connector type	Polishing	Fiber type	Length, m	Article
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 70 m	SC-FC	UPC	Simplex	70	FPC09-SCU-FCU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Simplex), 100 m	SC-FC	UPC	Simplex	100	FPC09-SCU-FCU-C1L-100M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 1 m	SC-FC	UPC	Duplex	1	FPC09-SCU-FCU-C2L-1M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 2 m	SC-FC	UPC	Duplex	2	FPC09-SCU-FCU-C2L-2M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 3 m	SC-FC	UPC	Duplex	3	FPC09-SCU-FCU-C2L-3M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 5 m	SC-FC	UPC	Duplex	5	FPC09-SCU-FCU-C2L-5M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 10 m	SC-FC	UPC	Duplex	10	FPC09-SCU-FCU-C2L-10M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 15 m	SC-FC	UPC	Duplex	15	FPC09-SCU-FCU-C2L-15M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 20 m	SC-FC	UPC	Duplex	20	FPC09-SCU-FCU-C2L-20M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 25 m	SC-FC	UPC	Duplex	25	FPC09-SCU-FCU-C2L-25M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 30 m	SC-FC	UPC	Duplex	30	FPC09-SCU-FCU-C2L-30M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 50 m	SC-FC	UPC	Duplex	50	FPC09-SCU-FCU-C2L-50M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 70 m	SC-FC	UPC	Duplex	70	FPC09-SCU-FCU-C2L-70M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-FC/UPC, (Duplex), 100 m	SC-FC	UPC	Duplex	100	FPC09-SCU-FCU-C2L-100M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 1 m	SC-ST	UPC	Simplex	1	FPC09-SCU-STU-C1L-1M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 2 m	SC-ST	UPC	Simplex	2	FPC09-SCU-STU-C1L-2M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 3 m	SC-ST	UPC	Simplex	3	FPC09-SCU-STU-C1L-3M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 5 m	SC-ST	UPC	Simplex	5	FPC09-SCU-STU-C1L-5M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 10 m	SC-ST	UPC	Simplex	10	FPC09-SCU-STU-C1L-10M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 15 m	SC-ST	UPC	Simplex	15	FPC09-SCU-STU-C1L-15M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 20 m	SC-ST	UPC	Simplex	20	FPC09-SCU-STU-C1L-20M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 25 m	SC-ST	UPC	Simplex	25	FPC09-SCU-STU-C1L-25M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 30 m	SC-ST	UPC	Simplex	30	FPC09-SCU-STU-C1L-30M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 50 m	SC-ST	UPC	Simplex	50	FPC09-SCU-STU-C1L-50M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 70 m	SC-ST	UPC	Simplex	70	FPC09-SCU-STU-C1L-70M
Optical patch cord, SM, 9/125 (OS2), SC/UPC-ST/UPC, (Simplex), 100 m	SC-ST	UPC	Simplex	100	FPC09-SCU-STU-C1L-100M

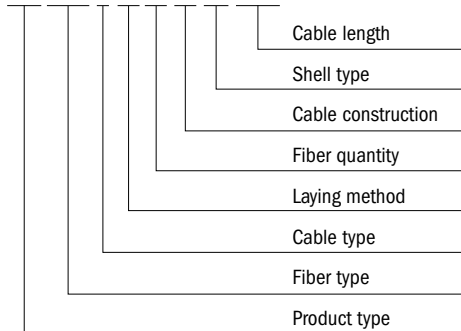
Fiber-optic cable

This product is a cutting edge solution to implement projects, that are based on high speed data transmission, replacing systems with increased demands powered by a copper cable.



Cable designation structure

FOC XXXX-X-XX XX-XX-XX-XXXX



Cable designation structure explanation

Name	Explanation
Product type	FOC – fiber optic cable
Fiber type	0902 – single mode 9/125 μm, OS2 6201 – multimode 62.5/125 μm, OM1 5002 – multimode 50/125 μm, OM2+ 5003 – multimode 50/125 μm, OM3 5004 – multimode 50/125 μm, OM4
Cable type	U – Universal S – Suspension
Based on gasket type	Universal cable: IO (In/Out) – indoor/outdoor; Trunk cable (OKPC-D2κ): OU – outdoor
Fiber quantity	1-16
Cable construction	Universal cable FL (Flex) – flexible (OKMB-02) TD – thin and durable (OKMB-03) Trunk cable (OKPC-D2κ) 10 – 1.0 kN 15 – 1.5 kN 30 – 3.0 kN – maximum tensile load rating
Shell type	Universal cable OKMB-02 (03) HF – нр(A)-HF – not flame retardant in case of bunched cabling, halogen-free LT- нр(A)-FRLSLTx – flame-proof, with low smoke and gas emission, low toxicity of combustion products (fire safety class P1b.1.2.1.2 according to GOST 31565-2012) Trunk cable (OKPC-D2κ) PV – high density polyethylene
Cable length, m	200 500 1000 1200 1500 2000

Universal fiber optic cable OKMB-02 and OKMB-03 by ITK® is delivered in outer jackets made of polymer materials with low fire risk:

- нр(A)-HF – not flame retardant in case of bunched cabling, halogen-free,
- нр(A)-FRLSLTx – flame-proof, with low smoke and gas emission, low toxicity of combustion products (fire safety class P1b.1.2.1.2 according to GOST 31565-2012).

Cables in an outer jacket нр(A)-FRLSLTx are applied in fire protection systems, as well as in other systems, that must remain functional in fire conditions. They are used in residential and public buildings, kindergartens, medical and administrative institutions, including multifunctional high-rise buildings, in technical premises, electrical installations and in conditions, where it is required to ensure fire safety and protection of people and equipment against toxic and corrosion gases.



Electric power distribution and monitoring

- Horizontal power distribution units (PDU)
- Vertical power distribution units (PDU)
- ADMIN series power distribution units with a monitoring function
- CONTROL series power distribution units with a monitoring and control function
- Power cables for PDU



To provide active network and server equipment with high quality electric power, ITC produces a wide range of PDU (Power Distribution Unit) sockets for horizontal and vertical mounting into a cabinet.



LED switch



Overvoltage protection



Models with or without a power cable



IEC320 C13 sockets



SCHUKO sockets



Removable fasteners

Color



Черный (9)

Explanation of designations for PH12-8D1-(P)

- PH** socket boards types
 PH – horizontal 19" PDU,
 PV – vertical PDU,
 PM – PDU with monitoring functions
 PC – connection cables for sockets
- 12** protection and add. functions
 11 – PDU with LED switch and a breaker,
 12 – PDU with LED switch without a breaker,
 21 – PDU without LED switch and with a breaker,
 22 – PDU without LED switch and without a breaker,
 13 – PDU with LED switch and overvoltage protection
- 8** quantity of sockets for equipment connection
 6 – 6 sockets,
 7 – 7 sockets,
 16 – 16 sockets, etc.
- D** Socket type
 D – SCHUKO standard sockets,
 C13 – IEC320 C13 standard sockets,
 DC13 – sockets of two standards – C13 and SCHUKO,
- 1** power cord and electric plug type
 1 – power cord with a SCHUKO electric plug,
 2 – power cord with a C14 electric plug,
 3 – no power cord, power is fed through C14 connector
- (P)** enclosure is made of PVC, if any

19" PDU socket boards

Horizontal 19" PDUs by ITK show high performance at providing electricity to network equipment in cabinets and racks, as well as meet requirements on protection against short circuit and overvoltage. Socket boards are made of high quality heat-resisting materials and plastics; depending on a model they are fitted with an LED switch, circuit breaker, reset button in case of overvoltage and meet Russian and international quality standards. Horizontal PDU meet 19" (482.6 mm) standard and are installed into 19" profile using brackets; position of brackets can be changed.

PDU with SCHUKO and IEC320 C13 sockets with a power cord



Specifications

• Dimensions, mm	482.6×44×44	• Power cord	2 m section 3×1.5 mm ²
• Socket type	SCHUKO, C13	• Features	construction fixation regulated
• Q-ty of sockets	6, 7, 8, 9	• brackets	
• Unit type	for 19" profile	• Color	black
• Add. functions	LED switch	• Amperage	max. 16 A
	Overvoltage protection	• Voltage	230 V
• Enclosure material	thermoplastics, PVC, aluminum profile	• Load power	2200/3500 W
• Electric plug	SCHUKO	• Frequency	50/60 Hz
		• Packaging	Cardboard box

Product range

Name	Socket type	Q-ty of sockets	Add. functions	Color	Article
PDU 6 German standard sockets with a switch 1U, power cord 2 m, German standard electric plug, PVC	SCHUKO	6	LED switch	black	PH12-6D1-P
PDU 7 German standard sockets with a switch 1U, power cord 2 m, German standard electric plug, PVC	SCHUKO	7	LED switch	black	PH12-7D1-P
PDU 8 German standard sockets with a switch, 1U, power cord 2 m, German standard electric plug, PVC	SCHUKO	8	LED switch	black	PH12-8D1-P
PDU 7 German standard sockets with a switch, 1U, power cord 2 m, German standard electric plug	SCHUKO	7	LED switch	black	PH12-7D1
PDU 8 German standard sockets with a switch, 1U, power cord 2 m, German standard electric plug	SCHUKO	8	LED switch	black	PH12-8D1
PDU 8 C13 sockets with LED, 1U, power cord 2 m, German standard electric plug	C13	8	LED switch	black	PH12-8C131
PDU 9 German standard sockets 1U, cord 2 m German standard electric plug, aluminum profile, black	SCHUKO	9	SCHUKO cord	black	PH22-9D1
PDU 9 German standard sockets 1U, cord 2 m German standard electric plug, PVC profile, black	SCHUKO	9	SCHUKO cord	black	PH22-9D1-P
PDU 9 German standard sockets 1U, cord 2 m IEC 320 C14 electric plug, aluminum profile, black	SCHUKO	9	IEC 320 cord	black	PH22-9D2
PDU 9 DIN49440 (Germ. stand.) sockets 1U, cord 2 m IEC 320 C14 electric plug, PVC profile, black	SCHUKO	9	IEC 320 cord	black	PH22-9D2-P

PDU with SCHUKO and IEC320 C13 sockets without a power cord



Specifications

- | | | | |
|----------------------|---------------------------------------|--------------|-----------------------|
| • Dimensions, mm | 482.6×44×44 | • Features | construction fixation |
| • Socket type | SCHUKO, C13 | • brackets | regulated |
| • Q-ty of sockets | 7, 8 | • Color | black |
| • Unit type | for 19" profile | • Amperage | max. 10 A |
| • Add. functions | LED switch,
Overvoltage protection | • Voltage | 230 V |
| • Enclosure material | thermoplastics
aluminum profile | • Load power | 2200 W |
| • power feed | IEC C14 input | • Frequency | 50/60 Hz |
| | | • Packaging | Cardboard box |

Product range

Name	Socket type	Q-ty of sockets	Add. functions	Color	Article
PDU 7 German standard sockets, with LED switch, 1U, without a cord, in. C14	SCHUKO	7	LED switch	black	PH12-7D3
PDU 8 German standard sockets, with LED switch, 1U, without a cord, in. C14	SCHUKO	8	LED switch	black	PH12-8D3
PDU 7 Germ. stand. sockets with a breaker and overvoltage protection, 1U, in. C14	SCHUKO	7	LED switch overvoltage protection	black	PH13-7D3
PDU 8 C13 sockets, with LED switch, 1U, in. C14, without a cord	C13	8	LED switch	black	PH12-8C133
PDU 8 C13 sockets with LED switch, 1U, without a cord, in. C14	C13	8	LED switch	black	PH12-8C133

PDU combined with SCHUKO and IEC 320 C13 type sockets



Specifications

• Dimensions, mm	482.6x44x44	• Color	black
• Socket type	SCHUKO, C13	• Amperage	max. 10 A
• Q-ty of sockets	6.7	• Voltage	230 V
• Unit type	for 19" profile	• Load power	2200 W
• Enclosure material	thermoplastics aluminum profile	• Frequency	50/60 Hz
• Features	construction fixation adjustable constructions	• Packaging	Cardboard box

Product range

Name	Socket type	Construction features	Enclosure material	Article
ITK PDU 6 German standard sockets + 2 C13 LED 1U in. C14 alumin.	6 SCHUKO + 2 C13	LED switch Without a cord, C14 in.	aluminum	PH12-6D2C133
ITK PDU 6 German standard sockets + 2 C13 LED 1U 2 m cable Germ. st.	6 SCHUKO + 2 C13	LED switch With a cord, SCHUKO electric plug	thermoplastics	PH12-6D2C131-P
ITK PDU 7 German standard sockets + 2 C13 1U 2 m cable C14	7 SCHUKO + 2 C13	With a cord, SCHUKO electric plug	thermoplastics	PH22-7D2C132-P
ITK PDU 7 German standard sockets + 2 C13 1U 2 m cable Germ. st.	7 SCHUKO + 2 C13	With a cord, SCHUKO electric plug	thermoplastics	PH22-7D2C131-P

PDU with SCHUKO and IEC320 C13 sockets with automatic breaker



Specifications

• Dimensions, mm	482.6x44x44	• Features	regulated construction fixation brackets
• Socket type	SCHUKO, C13, C19	• Color	black
• Q-ty of sockets	6	• Amperage	max. 10 A
• Unit type	for 19" profile	• Voltage	230 V
• Add. functions	1P 10A breaker	• Load power	2200 W
• Enclosure material	thermoplastics aluminum profile	• Frequency	50/60 Hz
• power feed	IEC C14 input	• Packaging	Cardboard box

Product range

Name	Socket type	Q-ty of sockets	Add. functions	Color	Article
PDU 6 German standard sockets with a breaker, 1U, in. C14, without a cord	SCHUKO	6	breaker	black	PH21-6D3

Vertical power distribution units (PDU)

NEW

Vertical combined and single-type 19" PDU by ITK allow to connect various equipment.

PDU by ITK are made of high quality heat resisting materials and plastics and are fitted with 3 m power cable with IEC60309 electric plug.

PDU by ITK show high performance at providing electricity to network equipment in cabinets and racks, as well as meet requirements on protection against short circuit and overvoltage.

PDU by ITK meet Russian and international quality standards, as well as 19" standard (482.6 mm) and can be installed into 19" profile using a bracket; position of brackets can be changed.

with single type sockets



with combined sockets



Explanation of designations for PV22-20C13-06C19-41

Item No.	Description	Possible options
1	PV - product name	PV - vertical PDU
2	2 - LED switch	1 - available 2 - no
3	2 - breaker	1 - available 2 - no 3 - with not breaker, with overvoltage protection
4	20 - q-ty of sockets	08 - 8 sockets 07 - 7 sockets 06 - 6 sockets 16 - 16 sockets
5	20C13-06C19 - type and quantity of sockets (3rd or 3rd, 4th and 5th (if applicable))	D - socket DIN49440 (Shuko) 2C13 - socket C13 IEC 320, 2 pcs. 13C13-04C19 (min. 2 types, specified with a hyphen)
6	4 - power cord and a type of electric plug (the last symbol in the second set)	1 - power cord with an electric plug DIN49440 2 - power cord with an electric plug C13 3 - no power cord, power is fed through C14 connector 4 - power cord with an electric plug IEC60309 (industry) 5 - no power cord, power is fed through DIN connector 6 - no power cord, power is fed through a terminal strip
7	1 - q-ty of phases	1 - 1 phase 3 - 3 phases
8	P - production material	P - PVC, enclosure is made of PVC, if any

Specifications

- | | | | |
|------------------------|---------------------------------|----------------------|-------------------|
| • Electric plug type | IEC 60309, SCHUKO | • Frequency | 50 Hz |
| • Socket type | C13+C19, SCHUKO | • Rated current | 16, 32 A |
| • Power cord | 3 m section 3x6 mm ² | • Maximum load power | 3500, 7500 W |
| • Total number sockets | 18, 26, 36 | • Enclosure material | aluminum |
| • Nominal voltage | AC 250 V | • Packaging | cardboard package |

Product range

Name	Socket type	Q-ty of sockets	Electric plug	Article
ITK PDU vert. 24U 1 ph. 16A 18 sock. Schuko cab. 3 m Schuko	SCHUKO	18	Schuko	PV22-18D-11
ITK PDU vert. 33U 1 ph. 32A 20 sock. C13 6 C19 cab. 3 m IEC60309	20C13+6C19	26	IEC60309	PV22-20C13-06C19-41
ITK PDU vert. 42U 1 ph. 32A 30 sock. C13 6 C19 cab. 3 m IEC60309	30C13+6C19	36	IEC60309	PV22-30C13-06C19-41

ADMIN power distribution units (PDU) with a monitoring function

NEW

Power distribution units (PDU) with a general monitoring function are designed to meet operational requirements of new generation data centers. ADMIN PDUs by ITK provide reliable distribution and measurement of power on PDU level, as well as maintain sensors monitoring the environment.

ADMIN PDU by ITK is a resilient, upgradable and maintained PDU system, that can be reconfigured or updated without a shutdown, without affecting the operation of the data center.



Connection of sensors to control temperature, humidity, access control, smoke and flooding



Built-in hydraulic circuit breakers



A patented system preventing from accidental unplugging or contact loosening



Large LCD with an option to rotate a screen by 180°



Replacement modules of output connectors



Tool-less PDU fastening

Explanation of AN-PM13-24-21C13-03C19-41 designations

Item No.	Description	Possible options
1	AN - series	AN - Admin (monitoring) CN - Control (monitoring and control)
2	PM - product name	PM - PDU with a monitoring function
3	1 - monitoring function	1 - monitoring of each socket 2 - individual monitoring and control
4	3 - breaker	1 - available 2 - no 3 - with not breaker, with overvoltage protection
5	24 - q-ty of sockets	08 - 8 sockets 07 - 7 sockets 06 - 6 sockets 16 - 16 sockets
6	21C13-03C19 - type and quantity of sockets (3rd or 3rd, 4th and 5th (if applicable))	D - socket DIN49440 (Shuko) 2C13 - socket C13 IEC 320, 2 pcs. 13C13-04C19 (min. 2 types, specified with a hyphen)
7	4 - power cord and a type of electric plug (the last symbol in the second set)	1 - power cord with an electric plug DIN49440 2 - power cord with an electric plug C13 3 - no power cord, power is fed through C14 connector 4 - power cord with an electric plug IEC60309 (industry) 5 - no power cord, power is fed through DIN connector 6 - no power cord, power is fed through a terminal strip
8	1 - q-ty of phases	1 - 1 phase 3 - 3 phases

Specifications

• Nominal voltage	230/380 V, 50 Hz	• Maximum load power	from 6,800 to 22,000 W
• Nominal input current	16/32 A	• Cable length	3 m
• Material of a unit enclosure	aluminum allow	• Protection class	1
		• Service life	min. 10 years

Product range

Name	Socket type	Quantity of sockets	Electric plug	Article
ITK ADMIN PDU with mon. 1F 32A 18C13 6C19 cab. IEC60309	18C13-06C19	24	IEC60309	AN-PM13-24-18C13-06C19-41
ITK ADMIN PDU with mon. 1F 32A 21C13 3C19 cab. IEC60309	21C13-03C19	24	IEC60309	AN-PM13-24-21C13-03C19-41
ITK ADMIN PDU with mon. 1F 32A 36C13 6C19 cab. IEC60309	36C13-06C19	42	IEC60309	AN-PM13-42-36C13-06C19-41
ITK ADMIN PDU with mon. 3F 32A 24C13 12C19 cab. IEC60309	24C13-12C19	36	IEC60309	AN-PM13-36-24C13-12C19-43
ITK ADMIN PDU with mon. 3F 32A 36C13 6C19 cab. IEC60309	36C13-06C19	42	IEC60309	AN-PM13-42-36C13-06C19-43

CONTROL series power distribution units with a monitoring and control function

NEW

Power distribution units (PDU) with monitoring and control functions are designed to meet operational requirements of new generation data centers. CONTROL PDUs by ITK provide reliable distribution and measurement of power on PDU level, as well as maintain sensors monitoring the environment.

CONTROL PDU by ITK is a resilient, upgradable and maintained PDU system, that can be reconfigured or updated without a shutdown, without affecting the operation of the data center.



Connection of sensors to control temperature, humidity, access control, smoke and flooding



Built-in hydraulic circuit breakers



A patented system preventing from accidental unplugging or contact loosening



Large LCD with an option to rotate a screen by 180°



Replacement modules of output connectors



Tool-less PDU fastening

Specifications			
• Nominal voltage	230/380 V, 50 Hz	• Maximum load power	from 6,800 to 22,000 W
• Nominal input current	16/32 A	• Cable length	3 m
• Material of a unit enclosure	aluminum allow	• Protection class	1
		• Service life	min. 10 years

Product range

Name	Socket type	Quantity of sockets	Electric plug	Article
ITK CONTROL PDU with monit. and cont. 1F 32A 18C13 6C19 cab. IEC60309	18C13-06C19	24	IEC60309	CN-PM23-24-18C13-06C19-41
ITK CONTROL PDU with monit. and cont. 1F 32A 21C13 3C19 cab. IEC60309	21C13-03C19	24	IEC60309	CN-PM23-24-21C13-03C19-41
ITK CONTROL PDU with monit. and cont. 1F 32A 36C13 6C19 cab. IEC60309	36C13-06C19	42	IEC60309	CN-PM23-42-36C13-06C19-41
ITK CONTROL PDU with monit. and cont. 3F 32A 24C13 12C19 cab. IEC60309	24C13-12C19	36	IEC60309	CN-PM23-36-24C13-12C19-43
ITK CONTROL PDU with monit. and cont. 3F 32A 36C13 6C19 cab. IEC60309	36C13-06C19	42	IEC60309	CN-PM23-42-36C13-06C19-43

Power cables for PDU

ITK produces and delivers a broad range of power cables for PDU with electric plugs of standards C13-C14, C13-SCHUKO, C19-C20. All cables for ITK® socket boards are regularly tested for quality on production site and meet international and Russian standards.



Product range

Name	Electric plug type	Length	Article
Power cable 3x1.5 2 m with connectors C13-C14	C13-C14	2 m	PC-C13C14-2M
Power cable 3x1.5 2 m with connectors C19-C20	C19-C20	2 m	PC-C19C20-2M
Power cable 3x1.5 2 m with connectors C13-SCHUKO	C13-SCHUKO	2 m	PC-C13D-2M
Power cable 3x1.5 3 m with connectors C13-SCHUKO	C13-SCHUKO	3 m	PC-C13D-3M
Power cable 3x1.5 1 m with connectors C13-SCHUKO	C13-SCHUKO	1 m	PC-C13D-1M
Power cable 3x1.5 1 m with connectors C19-C20	C19-C20	1 m	PC-C19C20-1M
Power cable 3x1.5 3 m with connectors C13-C14	C13-C14	3 m	PC-C13C14-3M
Power cable 3x1.5 3 m with connectors C19-C20	C19-C20	3 m	PC-C19C20-3M
Power cable 3x1.5 5 m with connectors C13-SCHUKO	C13 - SCHUKO	5 m	PC-C13D-5M
Power cable 3x1.5 5 m with connectors C13-C14	C13-C14	5 m	PC-C13C14-5M
Power cable 3x1.5 1M with bayonet connector C13	Bayonet connector C13	1 m	PC-C13N-1M
Power cable 3x1.5 2M with bayonet connector C13	Bayonet connector C13	2 m	PC-C13N-2M
Power cable 3x1.5 3M with bayonet connector C13	Bayonet connector C13	3 m	PC-C13N-3M
ITK Power cable PDU 3x1.5 1 m C19-Schuko	C19-Schuko	1 m	PC-C19D-1M
ITK Power cable PDU 3x1.5 2 m C19-Schuko	C19-Schuko	2 m	PC-C19D-2M
ITK Power cable PDU 3x1.5 3 m C19-Schuko	C19-Schuko	3 m	PC-C19D-3M
ITK Power cable PDU 3x1.5 1M with bayonet connector C19	Bayonet connector C19	1 m	PC-C19-1M
ITK Power cable PDU 3x1.5 2M with bayonet connector C19	Bayonet connector C19	2 m	PC-C19-2M
ITK Power cable PDU 3x1.5 3M with bayonet connector C19	Bayonet connector C19	3 m	PC-C19-3M
ITK Power cable PDU 3x1.5 1M with bayonet connector Schuko	Bayonet connector Schuko	1 m	PC-D-1M
ITK Power cable PDU 3x1.5 2M with bayonet connector Schuko	Bayonet connector Schuko	2 m	PC-D-2M



Cable carrier systems IEK®

- Metal cable carrier systems
- Plastic cable carrier systems



Due to up-to-date requirements to building communication networks and SCS it is necessary to use system, simplifying mounting and installation. Cable carrier system provide high reliability, convenient and quick installation of cable tracks, as well as adequate resiliency to load. Various types of galvanized metal trays, plastic boxes, as well as different accessories allow to execute installation of any complexity and configuration. Quality of our systems coupled with ease of use is complemented by clear cost advantage of the Russian manufacturer.

Metal sheet cable trays and accessories ESCA

The ESCA system of metal sheet cable trays and accessories is designed to organize cable routes at residential and commercial construction and industrial sites, including outdoor installation using special accessories. ESCA cable trays are made of high-quality Russian zinc-coated steel for various climatic modifications and placement categories in accordance with GOST 15150, which ensures a high degree of reliability and safety at facilities throughout the long service life of products.



Advantages

- Open method of cable tracks laying using metal trays allows to easily maintain electric and low-current system and develop it.
- A special lock gives additional mechanical strength to the tray, protects the cable from damage and ensures fast and reliable installation of the cover.
- Telescopic joint “male-female” accelerates mounting
- Double ground loop via a cable tray and a cover
- A range of typical sizes of trays and accessories allows to design a cable track of any complexity.

Specifications

- | | |
|------------------------|---|
| • Height | 35–100 mm |
| • Width | 50–600 mm |
| • Thickness | 0.55–2.0 mm |
| • Coating | galvanized steel, hot zinc |
| • Scope of application | outdoors and indoors of production, trading, office and residential buildings |

LESTA ladder trays and accessories

The new patented line of LESTA metal ladders allows you to organize a reliable installation of cable routes at industrial, commercial and civil construction sites with high requirements for load and corrosion resistance. High Safe Working Load (SWL) ratings allow to use LESTA ladder trays at sites of significant importance, and a wide range of accessories allows you to design and install a cable route of any complexity.

LEST ladder trays are made of coiled cold rolled steel, pre-galvanized by Sendzimir process (GOST 14918-2020).



Advantages

- High bearing capacity of ladder trays allows to lay heavy cable lines with a load more than 600 kg/m.
- Open method of cable lines laying using metal ladders trays allows to easily maintain electric and low-current system and develop it.
- Universal “male-female” connector allows to mount cable tracks both longitudinally end-to-end, and in an overlapping manner from the side due to a new symmetric design.
- Unique patented construction remarkably improves durability of LESTA IEK ladder trays.
- A range of typical sizes of trays and accessories allows to design a cable track of any complexity, when different types of trays are used.

Specifications

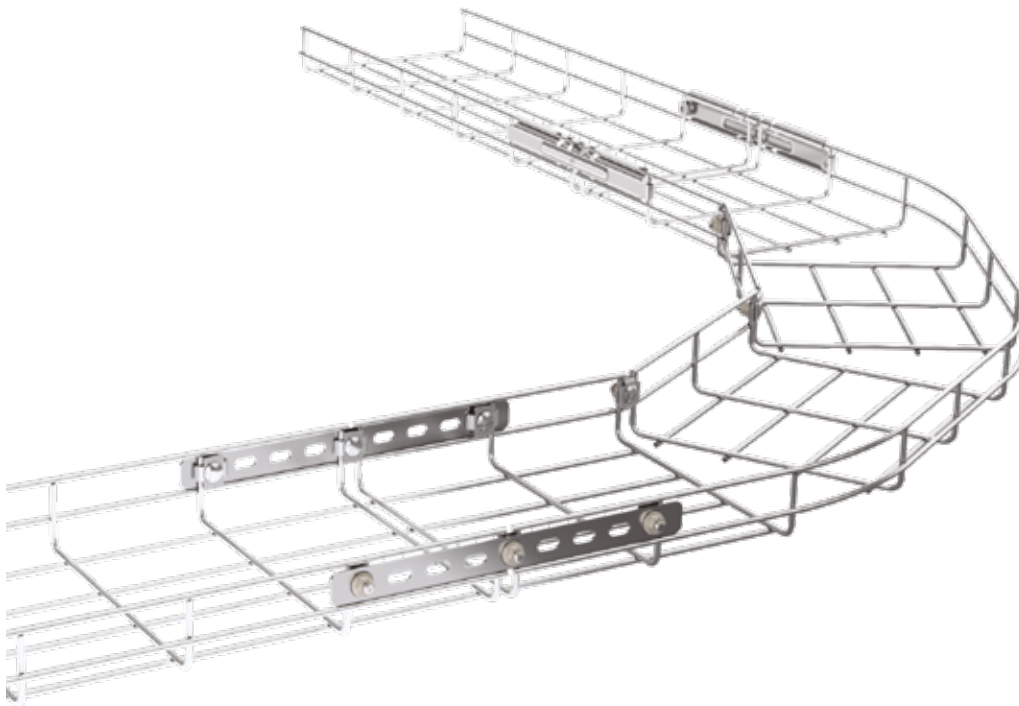
- Height 55–150 mm
- Width 200–600 mm

- Length 3000–6000 mm
- Thickness 1.0*1.2*1.5 mm
- Material galvanized steel using Sendzimir process (zinc-plated coating mass up to 200 g/m²)
- Warranty for a coating protection against deep corrosion up to 10 years if operation conditions are met
- Scope of application outdoors and indoors of production, trading, office and residential buildings

Galvanized wire trays and accessories

Wire trays are designed for installation of power and information cables inside buildings and structures. Most often used under false ceilings.

A distinctive feature of cable installation in wire trays is ease a minimum number of accessories usage, as well as excellent ventilation of the laid cable route, which reduces the possibility of overheating.



Advantages

- Maximum ventilation of the installed cable track.
- Wire trays system is installed using minimum quantity of accessories.
- Trays can be connected between each other without screws.
- Easy access to wiring during operation.
- Wide range of typical sizes of trays and accessories allows to solve even the most complicated mounting tasks.

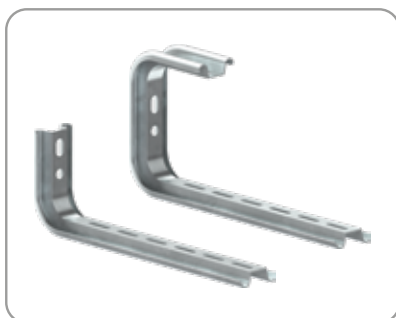
Specifications

- Height 35–100 mm
- Width 60–600 mm
- Length 3,000 mm
- Thickness 3.8–4.8 mm
- Material article 1 – galvanized steel using Sendzimir process; article 2 – hot-dip galvanizing by dipping after manufacture; article 3 – stainless steel AISI 304; Артикул 4 – galvanically zinc-plated steel
- Coating warranty 10 years if operation conditions are met
- Scope of application for cable laying indoors
- Specifications 707.00.00.000-2005 ИМ

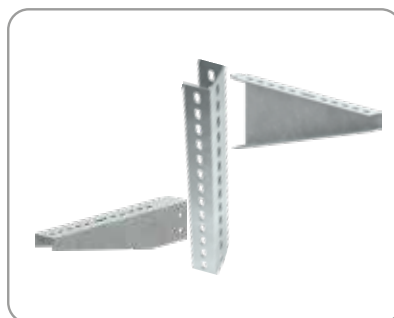
Installation products system for cable metal trays and accessories by IEK

The IEK® installation products system is used for all types of metal cable trays. It is also allowed to use the IEK® installation products system for laying cable routes and utilities without metal tray systems but with profiles, consoles and other mounting elements. The system elements are fully compatible with each other, which allows you to create structures of any complexity with only one bolted connection using a minimum number of special tools. The IEK® installation product system can be roughly divided into 3 types depending on the cable load:

1. System for light cable loads – consists of brackets based on the OMEGA profile.
 2. System for medium cable loads – consists of U-shaped profiles of various thicknesses and compatible ceiling and wall brackets.
 3. System for high cable loads – consists of STRUT-profiles of various thicknesses and sizes, ceiling hangers, consoles and accessories.
- A wide range of STRUT-system accessories allows you to mount support structures for cable routes of any configuration and complexity.



SYSTEM FOR LIGHT CABLE LOADS



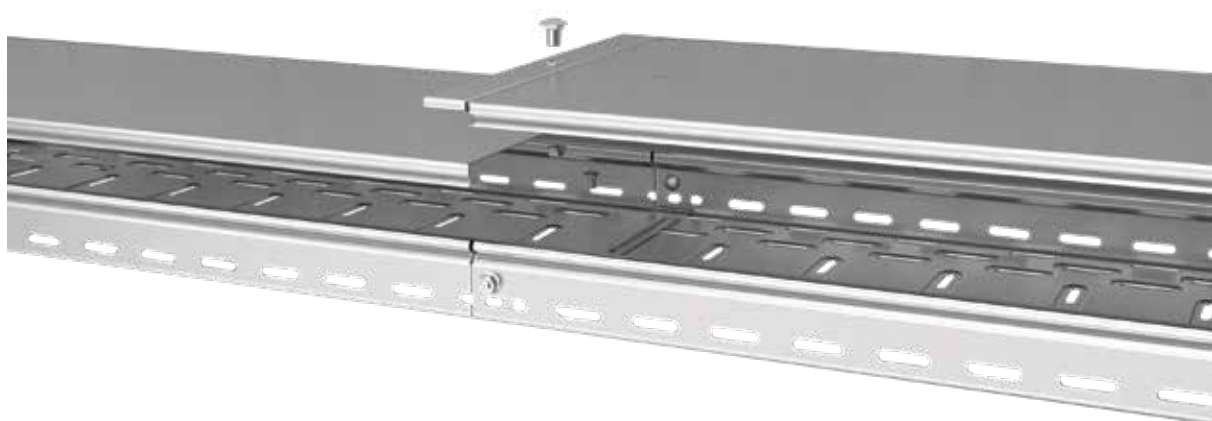
SYSTEM FOR MEDIUM CABLE LOADS



SYSTEM FOR HIGH CABLE LOADS

Metalware

Designed to mount metal trays (rolling, wire, ladder and other types) on building parts (ceiling, walls, floor), as well as to connect trays between each other.



Advantages

- Construction of metalware connections elements mostly ensures convenient and quick installation.

Specifications

- Material zinc-plated steel
- Color white
- Coating warranty protection against deep corrosion up to 10 years if operation conditions are met
- Scope of application outdoors and indoors of production, trading, office and residential buildings

PRIMER series cable ducts and accessories

PRIMER series system of parapet cable ducts is designed for installation of all types of power and low-voltage communications, including optical cable and information wiring of high categories, for organizing a workplace in office, industrial and administrative buildings, medical and educational institutions, during construction and reconstruction.

The PRIMER series cable duct system complies with the requirements of 27.33.14-004-83135016-2017.



Advantages

- Workplace arrangement.
- Ensuring electrical safety (additional insulation of electrical wiring)
- Protection of wiring from mechanical damage.
- Exclusion of a possible fire in case of a short circuit.
- Restriction of unauthorized access to wiring.
- Simplified electrical wiring in the construction and reconstruction of buildings.
- Providing quick access to electrical wiring in an emergency.
- Possibility of quick modernization and addition of electrical wiring.

Specifications

- | | |
|--|--|
| • Material | self-extinguishing PVC |
| • Fire resistance | in case of fire the material doesn't let the fire propagate category PV-0, tests as per GOST R 53313 |
| • Strength | min. 5 kgf/cm at temperature – 32 °C; |
| • Operating temperature range for continuous operation | –15...+60 °C |
| • Installation temperature | –15...+60 °C |
| • Storage & Transportation Temperature | –25...+60 °C |
| • Electrical resistance | At least 1 x 10 ⁹ Ohm x cm at + 20 °C |
| • Color | white |
| • Cover removal test | no additional tool is required to open, unauthorized access to current carrying parts is restricted |

Floor systems

ONFLOOR hatches are designed to organize work space in false floors, floors for concrete pouring, as well as directly at a workplace. Scope of application: business offices, social facilities, administrative premises.



Advantages

- Option of flush-mounting.
- Installation of wiring accessories 45'45, 45'22.5 и 60'60.
- High mechanical stability.
- Cable protection against kink.
- High fire resistance.

Specifications

- | | |
|--|----------------|
| • Material | ABS-plastic |
| • Protection degree | IP30 |
| • Load characteristics, H | 1500 |
| • Application temperature, °C | from -5 to +70 |
| • Insulation voltage, Ui | 500 V |
| • Resistance to abnormal heat and fire, °C | 850 |
| • Installation height, mm | < 95 |
| • Diameters of holes for duct entry | 25, 32, 40 |
| • Size of a hole for metal tray entry | 150'35 |
| • Service life, years | 10 |

Corrugated pipes

Corrugated PVC pipes

Corrugated pipes are used for laying hidden-type power and low-current lines inside buildings and structures. Due to the flexibility of the pipe, cable laying is carried out with minimal effort and requires almost no additional accessories. Corrugated PVC pipes meet the requirements of 27.33.14-002-83135016-2017 technical specifications.



Advantages

- Exclusion of fire in case of short circuit.
- Additional protection of wiring from mechanical damage.
- The material of the pipes is an excellent dielectric.
- The flexibility of the pipes ensures quick and easy installation with a minimum of accessories.
- The convenience of pulling the cable is provided by the broach tool.

Specifications

- | | |
|--|------------------------------------|
| • Material | self-extinguishing PVC composition |
| • Protection degree | IP40 |
| • Strength, GOST 61386.1 | above 320 N by 5 cm at +20 °C |
| • Operating temperature range for continuous operation | -15...+60 °C |
| • Installation temperature | -10...+60 °C |
| • Storage and transportation temperature | -25...+60 °C |
| • Electrical | min. 100 MOhm (500 V for 1 min.) |
| • Fire resistance | doesn't maintain fire |
| • Color | grey |

Corrugated HDPE pipes

Light type corrugated HDPE pipes (high density polyethylene) are designed to lay information power and low-current electric communication of a hidden (in conduits and screeds of floors) type in offices and residential premises, production and administrative buildings, medical and children institutions during building and reconstruction.

Corrugated HDPE pipes meet the requirements of 27.33.14-002-83135016-2017 technical specifications.



Advantages

- High flexibility and plasticity.
- The convenience of pulling the cable is provided by the broach tool.
- High resiliency to ultra-violet.
- Can be used for concreting.
- The material of the pipes is an excellent dielectric.

Specifications

- | | |
|--|---|
| • Material | HDP |
| • Protection degree | IP40 |
| • Climatic version | NF1 per GOST 15150 |
| • Operating temperature range for continuous operation | -40...+90 °C |
| • Installation temperature | -40...+90 °C |
| • Mechanical strength, GOST 61386.1 | light – above 125 N per 5 cm at +20 °C;
heavy – above 320 N per 5 cm at +20 °C |
| • Insulation resistance | min. 100 MΩhm (500 V for 1 min.) |

Electrical pipes

Technical smooth HDPE pipes

Designed for use in housing and communal services, power supply, telecommunications. Used in construction for concreting, for laying wires in screeds and in masonry, as well as laying underground utilities. Used to isolate and protect power cables, information and signal lines, communication lines from mechanical damage.



Advantages

- Durability (over 50 years) and high strength.
- IEK® technical smooth HDPE pipe combines the flexibility of a corrugated pipe with the smoothness of a rigid PVC pipe.
- Smooth surface simplifies cable pulling.

Specifications

- | | |
|----------------------------------|-----------------------------|
| • Material | HDP |
| • Protection degree | IP40 |
| • Strength, GOST 61386.24 | 250 N |
| • Dielectric strength, | 2000 V minimum |
| • Insulation resistance, minimum | 100 MOhm (500 V for 1 min.) |
| • Color | black |
| • Service life | 50 years |
| • Operation temperature | -40...+90 °C |

Double-walled HDPE pipes

Designed to protect power cables, information and signal lines, as well as communication lines from mechanical damage and aggressive environmental influences. Used in construction for installation underground utilities, in transport infrastructure during road construction, in housing and communal services, in electricity supply, telecommunications, and in some cases – for water sewerage.



Advantages

- Rigid pipes in sections 6 m., flexible pipes in coils 25-150 m
- Pipe length 6, 50, 100 and 150 m.
- The range includes pipes with outer diameter from 40 to 200 mm.
- Accessories – connection couplings included in a set.

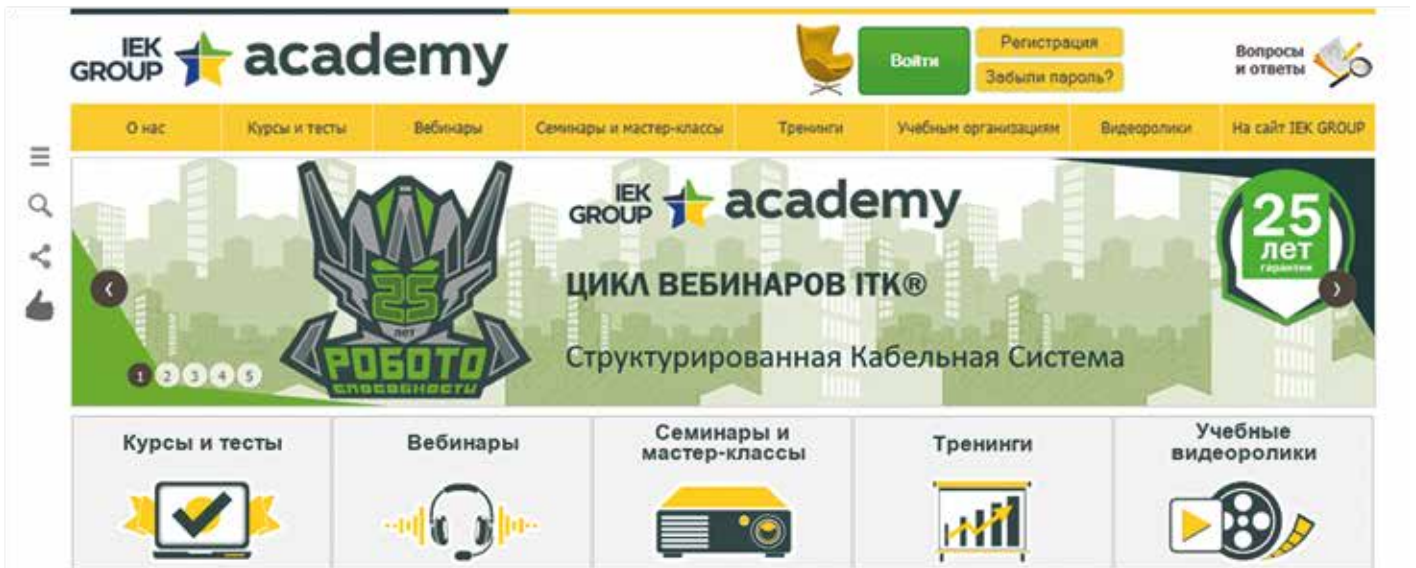
Specifications

- | | |
|---------------------------|---|
| • Material | HDP |
| • Protection degree | IP40 |
| • Strength, GOST 61386.24 | 750 N – flexible pipes,
1250 N – rigid pipes |
| • Dielectric strength, | 2000 V minimum |
| • Insulation resistance, | 100 MΩm |
| • Color | red |
| • Service life | 50 years |

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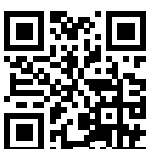
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