



STRUCTURED CABLING SYSTEM CATALOGUE

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SCS: GENERAL INFORMATION

It is impossible to imagine the operation of companies without applying any IT technologies. Moreover, this interrelation is critical for the regular operation of an enterprise. For example, a cable breakout may result in a shutdown or deceleration of the main operation process of a business.

Then it makes sense to ask: how can we build a reliable and high-quality infrastructure to ensure stable communication within a building or a group of buildings? The concept of SCS can be used as an answer.

A structured cabling system (SCS) is a set of communication cables and various switching equipment that meets the requirements of the relevant reference documents. The architecture, parameters and installation of such a system are regulated by certain regulatory standards.

If we speak about SCS standards, we should mention the following:

- **ISO/IEC 11801:2017:** an international standard deemed to be most commonly used at the present moment. That is why it is referred to during the design and construction of modern SCSs;
- **ANSI/TIA/EIA 568-B:** an American standard that is vastly applied not only in the USA but also in many other countries throughout the world;
- **GOST R 5324-2008 and GOST R 53246-2008:** native standards that are the translation of the international standard ISO/IEC 11801

We should mention several essential features that make SCS a universal solution for the construction of a network of any scale:

- option to use several types of transmission media (optic fiber and telecommunication copper cables) within the same system;
- option to apply components of various manufacturers;
- the ability of the system to support telecommunication applications (data, voice, video).

SCS is a complex system consisting of several components:

- communication cable (optic and copper cables)
- users' sockets and modules
- switchboards and distribution crosses
- cable support systems (wiring ducts, trays, tubes)
- racks (telecommunication cabinets and racks)

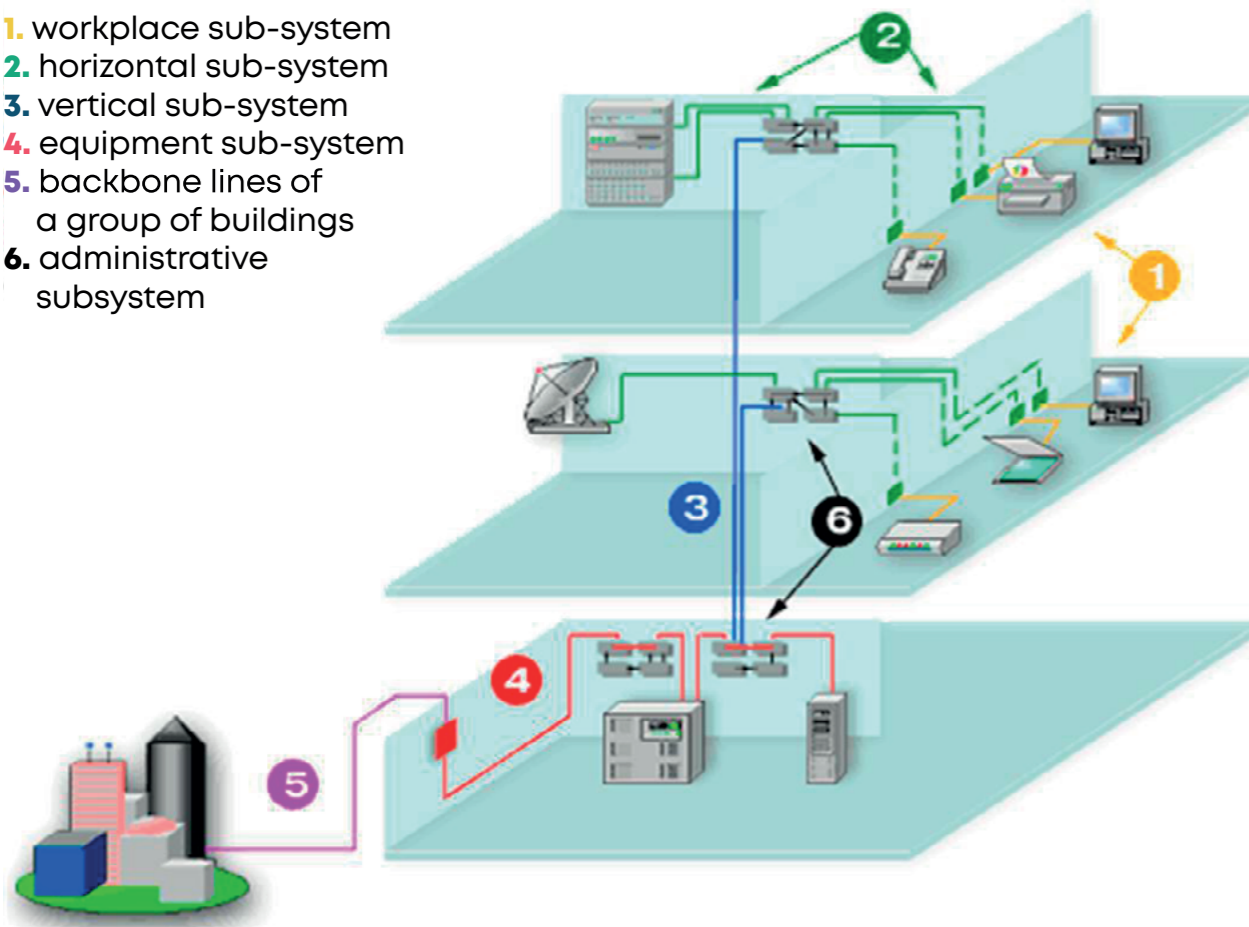
Communication cables are the backbone of SCS and the primary medium for data transfer. According to the standards, cable lines are divided into several sub-systems forming a unified SCS

According to the international standard ISO/IEC 11801:2017, SCS includes 3 sub-systems:

- Horizontal cabling sub-systems consist of cables connecting floor distributors directly with users' sockets (workplaces).
- Internal trunk cabling sub-system (or 2-level backbone line) includes cables that connect building distributor with floor distributors.
- External trunk cabling sub-system (or 1-level backbone line) is available only when building SCS within a group of buildings and connects the campus distributor with the building distributor.

Example of SCS

1. workplace sub-system
2. horizontal sub-system
3. vertical sub-system
4. equipment sub-system
5. backbone lines of a group of buildings
6. administrative subsystem



SCS topology (a group of buildings)

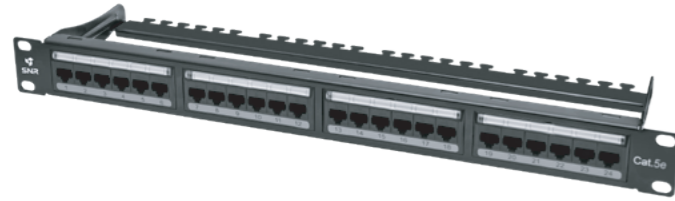


SCS configuration in the building

The reliability of the built SCS depends on the compliance of the completed installation with the requirements of standards and the quality of elements used. NAG has developed a solution under its own brand SNR.

Structured cabling system SNR is a modern infrastructure with each element meeting international standards. The primary advantages of SNR SCS are reliability, ease of installation and optimal quality-price ratio.

This catalog includes all the elements of SNR SCS that make it possible to choose the technical solution applicable and suitable for a specific task. Let's focus on these elements and review them in detail.



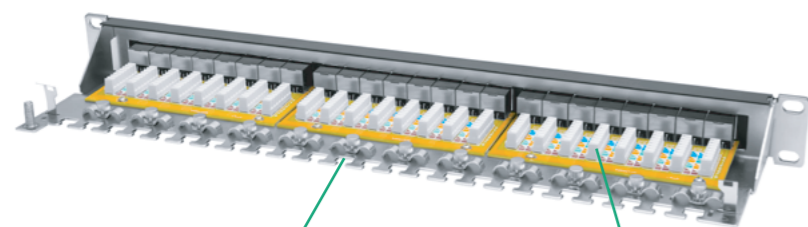
SNR-SD

- 24 or 48 ports RJ45/8P8C;
- shielded design;
- number of connections – at least 750.

This series of switchboards are made in the shielded design; it is designed for installation in 19" racks and is fitted with 24 ports RJ45/8P8C. The patch panel of this type is made in two versions for 24 (SNR-UD-1U24) or 48 (SNR-UD-1U48) ports RJ45/8P8C. The cable is terminated horizontally into contacts.

Depending on the technical requirements, the switchboard of SNR-SD series may meet the following categories: cat.5e, cat.6, and cat.6a.

For ease of administration, each switchboard port is numbered and fitted with a replaceable paper label. It is equipped with multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC with a colour marking as per T568A/B standard that makes it easier (faster) to lace patch panels.



The chassis and casing are made from 1.5 mm steel.



Multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC



Integrated rail for cable support with screw clamps for cable fixing



BASIC CHARACTERISTICS

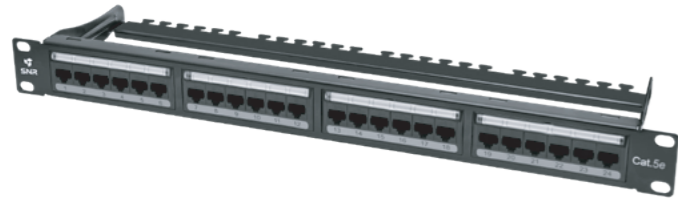
Article	SNR-SD-1U24-5E-H SNR-UD-1U48-5E-H	SNR-SD-1U24-6-H SNR-SD-1U48-6-H	SNR-SD-1U24-6A-H SNR-SD-1U48-6A-H
SCS category	cat.5e	cat.6	cat.6a
Frequency, MHz	100	250	500
Number of ports	24/48		
Number of connections	At least 750		
Method of contacts termination	Horizontal		
Marking	Ports numbering + additional marking locations		
Type of connectors	8P8C (RJ-45)		
Dimensions, mm	44.5 x 482.5 x 83		
Weight, g	1700		

SCOPE OF SUPPLY

Patch panel	1
Plastic clamps/tie wraps	4
Screw M6	4
Grounding wire	1

INFORMATION FOR ORDERING

SNR-SD-1U24-5E-H	Switchboard SNR, 19" shielded, 1U, 24 ports, cat.5e, horizontal termination
SNR-SD-1U24-6-H	Switchboard SNR, 19" shielded, 1U, 24 ports, cat.6, horizontal termination
SNR-SD-1U24-6A-H	Switchboard SNR, 19" shielded, 1U, 24 ports, cat.6A, horizontal termination
SNR-UD-1U48-5E-H	Switchboard SNR, 19" unshielded, 1U, 48 ports, cat.5e, horizontal termination
SNR-SD-1U48-6-H	Switchboard SNR, 19" unshielded, 1U, 48 ports, cat.6, horizontal termination
SNR-SD-1U48-6A-H	Switchboard SNR, 19" unshielded, 1U, 48 ports, cat.6A, horizontal termination



SNR-UD-1U

- 24 ports RJ45/8P8C;
- at least 750 connections;
- complete with wire management

Switchboards are pretty simple in design and functions; however, they make it possible to improve the management and functioning of the data processing center or almost any other media, including much equipment. Fully functional SCS is impossible without patch panels.

Switchboards of SNR-UD-1U series are made in the unshielded design, 1U design and are designed for installation in a 19" cabinet or rack. Patch panels are fitted with 24 ports RJ45/8P8C, and the cable is terminated horizontally in contacts.

Each switchboard port is numbered and fitted with a replaceable paper label, significantly simplifying network administration. Multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC, including colour marking as per T568A/B standard, is located on the back side of the switchboard that makes it easier (faster) to lace patch panels.

Product line SNR-UD-1U includes patch panels of cat.5e, cat.6, and cat.6a and is in line with standards ANSI/TIA-568-C.2; ISO/IEC 11801:2002/Amd.2:2010; YD/T 926.3-2009; ISO/IEC 60603-7 COMPLIANT; RoHS directive 2002/95/EC.

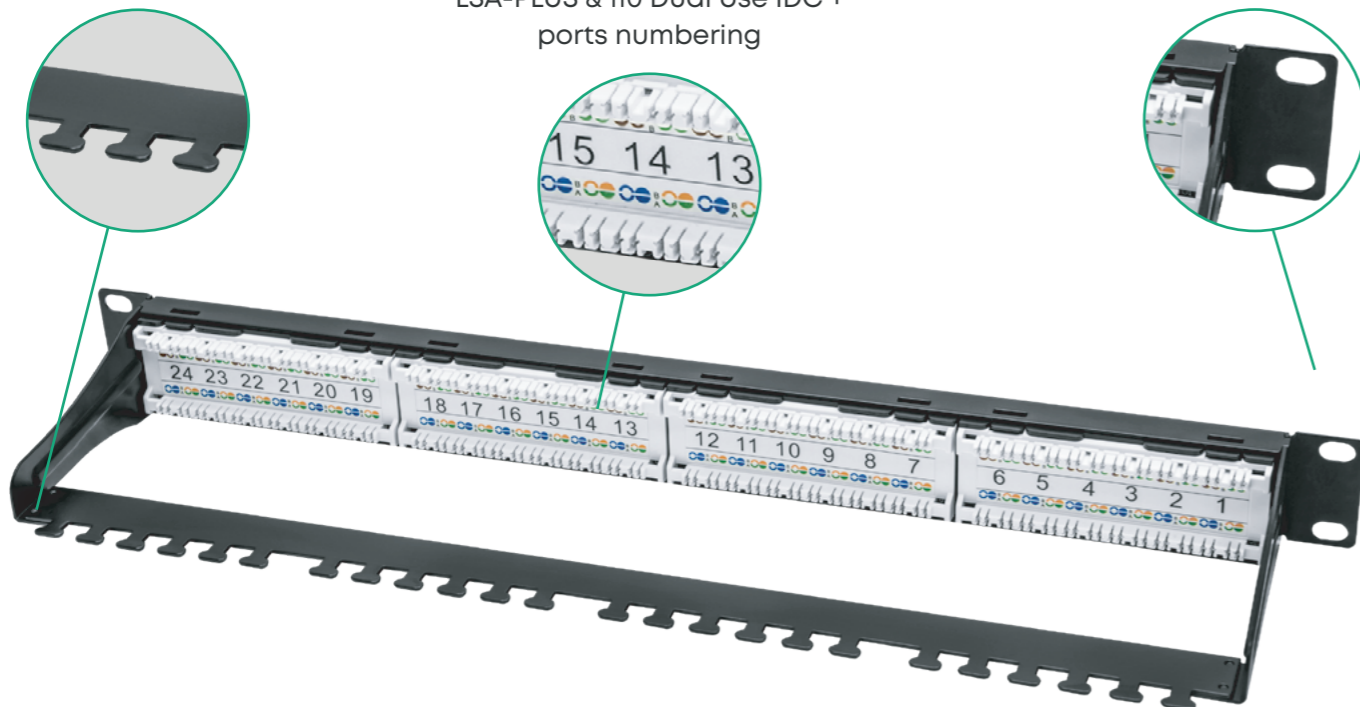
Patch panels SNR-UD-LC, 5E category, are low-line panels made in the simplest design without a back organizer. It made it possible to reduce the price while the quality of SNR remained the same.

Product line SNR-UD-LC perfectly fits solutions where a reliable SCS is required at the lowest possible cost..

Dismountable cable organizer

Multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC + ports numbering

Chassis is made from steel 1.5 mm



BASIC CHARACTERISTICS

Article	SNR-UD-1U24-5E-H SNR-UD-1U48-5E-H SNR-UD-1U24-5E-H-LC SNR-UD-2U48-5E-H-LC	SNR-UD-1U24-6-H SNR-UD-1U48-6-H	SNR-UD-1U24-6A-H SNR-UD-1U248-6A-H
SCS category	cat.5e	cat.6	cat.6a
Frequency, MHz	100	250	500
Number of ports	24/48		
Number of connections	At least 750		
Method of contacts termination	Horizontal		
Marking	Ports numbering + additional marking locations		
Type of connectors	8P8C (RJ-45)		
Dimensions, mm	44.5 x 482.5 x 83		
Weight, g	760		

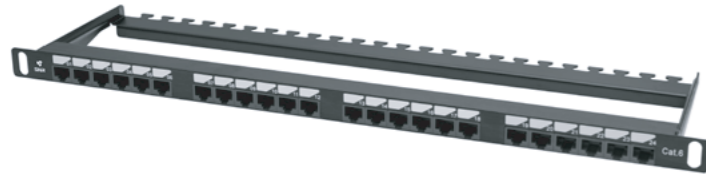
SCOPE OF SUPPLY

SNR-UD-1U24-5E-H, SNR-UD-1U48-5E-H, SNR-UD-1U24-6-H, SNR-UD-1U48-6-H, SNR-UD-1U24-6A-H, SNR-UD-1U248-6A-H	
Patch panel	1
Cable organizer	1
Plastic clamps/tie wraps	4
Screw M6	4
SNR-UD-1U24-5E-H-LC, SNR-UD-2U48-5E-H-LC	
Patch panel	1

INFORMATION FOR ORDERING

SNR-SD-1U24-5E-H	Switchboard SNR, 19" shielded, 1U, 24 ports, cat.5e, horizontal termination
SNR-SD-1U24-6-H	Switchboard SNR, 19" shielded, 1U, 24 ports, cat.6, horizontal termination
SNR-SD-1U24-6A-H	Switchboard SNR, 19" shielded, 1U, 24 ports, cat.6A, horizontal termination
SNR-UD-1U48-5E-H	Switchboard SNR, 19" unshielded, 1U, 48 ports, cat.5e, horizontal termination
SNR-UD-1U48-6-H	Switchboard SNR, 19" unshielded, 1U, 48 ports, cat.6, horizontal termination
SNR-UD-1U48-6A-H	Switchboard SNR, 19" unshielded, 1U, 48 ports, cat.6A, horizontal termination
SNR-UD-1U24-5E-H-LC	Switchboard SNR, 19" unshielded, 1U, 24 ports, cat.5e horizontal termination
SNR-UD-2U48-5E-H-LC	Switchboard SNR, 19" unshielded, 2U, 48 ports, cat.5e, horizontal termination

SNR-UD-0.5U



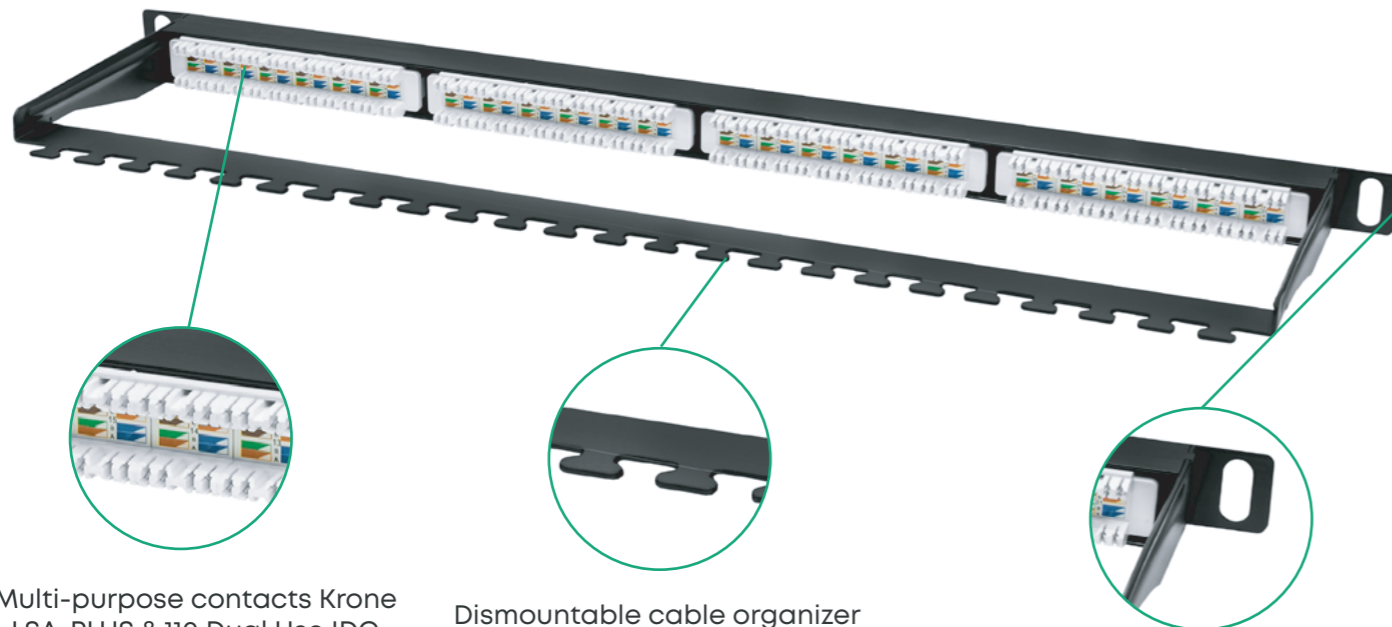
- High-density board: 24 ports RJ45/8P8C at the height of 0.5U (22.23 mm);
- Cable organizer for cable fixing;
- Contacts material (RJ-45): plated phosphatized bronze at least 6U (micro inches).

Switchboards of SNR-UD-0.5U series are made in the unshielded design and are designed for installation in 19" racks. These patch panels have 24 ports RJ45/8P8C and a height of 0.5U, which constitutes a perfect solution for telecommunication cabinets/racks with high port density. Type of contact termination – horizontal.

The front panel is made from aluminum. Ports are numbered and bear additional marking locations. Multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC including colour marking, are located on the back side of the panel. Patch panels are laced as per T568A/B standard.

Product line SNR-UD-0.5U includes patch panels of various categories: cat.5e; cat.6; cat.6a and is in line with the standards: ANSI/TIA-568-C.2; ISO/IEC 11801:2002/Amd.2:2010; YD/T 926.3-2009; ISO/IEC 60603-7 COMPLIANT; RoHS directive 2002/95/EC.

Patch panels have cable organizers on the back side to ease switching and reduce loads on the structure base. Moreover, this patch panel can become a perfect solution in cabinets where it is impossible to install a 1U. However, installing a 0.5U patch panel without any shifting or dismantling in the rack or cabinet is possible.



Multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC

Dismountable cable organizer

Steel thickness 1.5 mm

BASIC CHARACTERISTICS

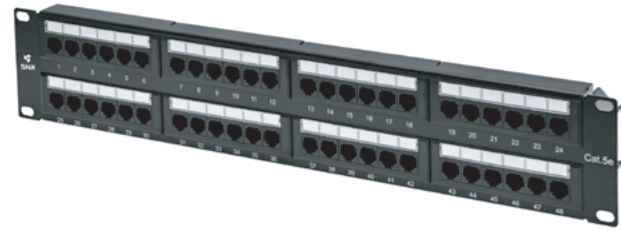
Article	SNR-UD-0.5U24-5E-H	SNR-UD-0.5U24-6-H	SNR-UD-0.5U24-6A-H
SCS category	cat.5e	cat.6	cat.6a
Frequency, MHz	100	250	500
Number of ports	24		
Number of connections	At least 750		
Method of contacts termination	Horizontal		
Marking	Ports numbering + additional marking locations		
Type of connectors	8P8C (RJ-45)		
Dimensions, mm	22.23 x 482.6 x 83		
Weight, g	580		

SCOPE OF SUPPLY

Patch panel	1
Cable organizer	1
Plastic clamps/tie wraps	4
Screw M6	4

INFORMATION FOR ORDERING

SNR-UD-0.5U24-5E-H	Switchboard SNR, 19" unshielded, 0.5U, 24 ports, cat.5e, horizontal termination
SNR-UD-0.5U24-6-H	Switchboard SNR, 19" unshielded, 0.5U, 24 ports, cat.6, horizontal termination
SNR-UD-0.5U24-6A-H	Switchboard SNR, 19" unshielded, 0.5U, 24 ports, cat.6A, horizontal termination



SNR-UD-2U

- 48 ports RJ45/8P8C;
- two replaceable cable organizers;
- ports numbering + additional marking locations.

Switchboards of SNR-UD-2U series are made in the unshielded design; are designed for installation in a 19" cabinet or rack. The patch panel's height is 2U (88.9 mm).

48 ports RJ45/8P8C are located on the front side and each of them is numbered and has additional replaceable paper labels for ease of administration. Multi-purpose contacts LSA-PLUS & 110 Dual Use IDC, including colour marking as per T568A/B standard, is located on the panel's backside. Each laced port is numbered. Type of cable termination - horizontal.

Two replaceable cable organizers make it possible to carefully lay and fix the laced port, significantly simplifying the subsequent panel servicing process.

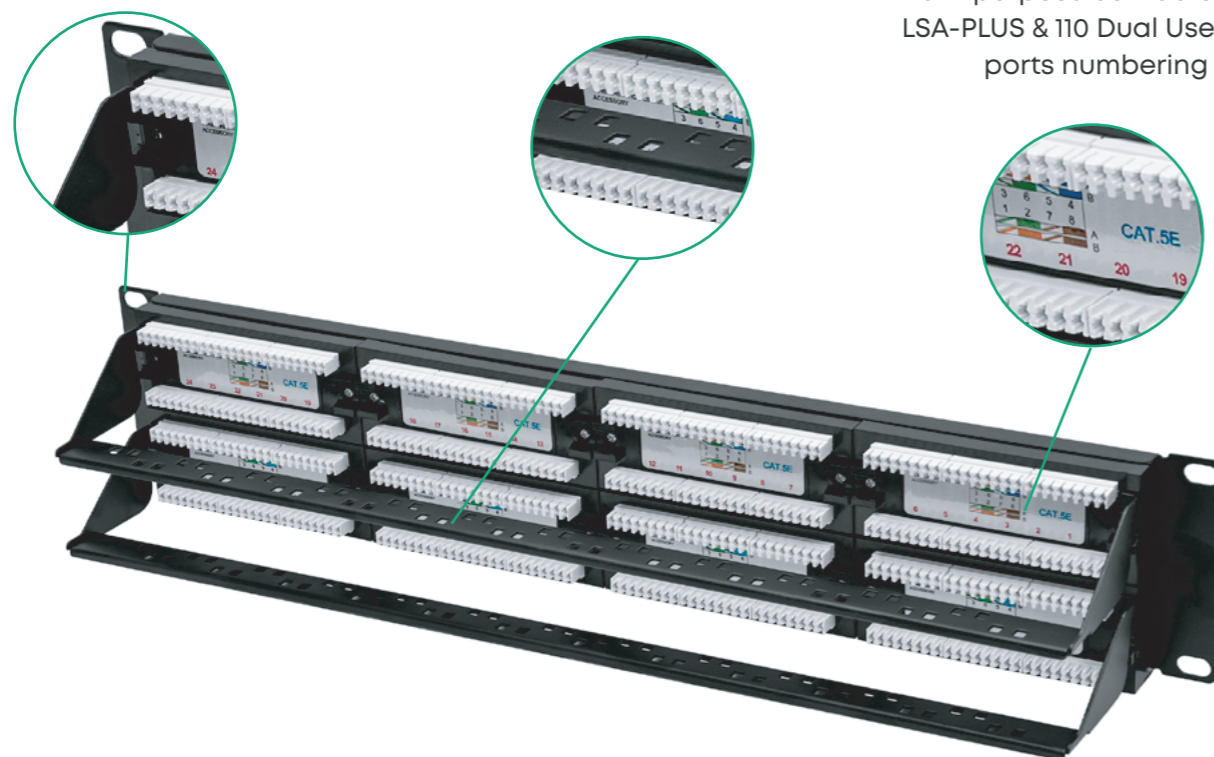
Product line SNR-UD-2U includes patch panels of various categories: cat.5e, cat.6, and cat.6a.

The base and replaceable patch panels are made from high-quality steel 1.5 mm, which makes the structure of patch panels resistant to physical loads and reliable for further operation. Plastic parts material is as per UV resistant standard PC UL94V-0.

Chassis is made from steel 1.5 mm

Two replaceable cable organizers

Multi-purpose contacts Krone LSA-PLUS & 110 Dual Use IDC + ports numbering



BASIC CHARACTERISTICS

Article	SNR-UD-2U48-5E-H	SNR-UD-2U48-6-H	SNR-UD-2U48-6A-H
SCS category	cat.5e	cat.6	cat.6a
Frequency, MHz	100	250	500
Number of ports	24		
Number of connections	At least 750		
Method of contacts termination	Horizontal		
Marking	Ports numbering + additional marking locations		
Type of connectors	8P8C (RJ-45)		
Dimensions, mm	88.9 x 482.5 x 83		
Weight, g	1360		

SCOPE OF SUPPLY

Patch panel	1
Cable organizer	2
Plastic clamps/tie wraps	4
Screw M6	4

INFORMATION FOR ORDERING

SNR-UD-2U48-5E-H	Switchboard SNR, 19" unshielded, 2U, 48 ports, cat.5e, horizontal termination
SNR-UD-2U48-6-H	Switchboard SNR, 19" unshielded, 2U, 48 ports, cat.6, horizontal termination
SNR-UD-2U48-6A-H	Switchboard SNR, 19" unshielded, 2U, 48 ports, cat.6A, horizontal termination



SNR-UL-1U

- 24 ports for modules of Keystone Jack format;
- possibility to install options of various types/categories;
- dismantlable structure.

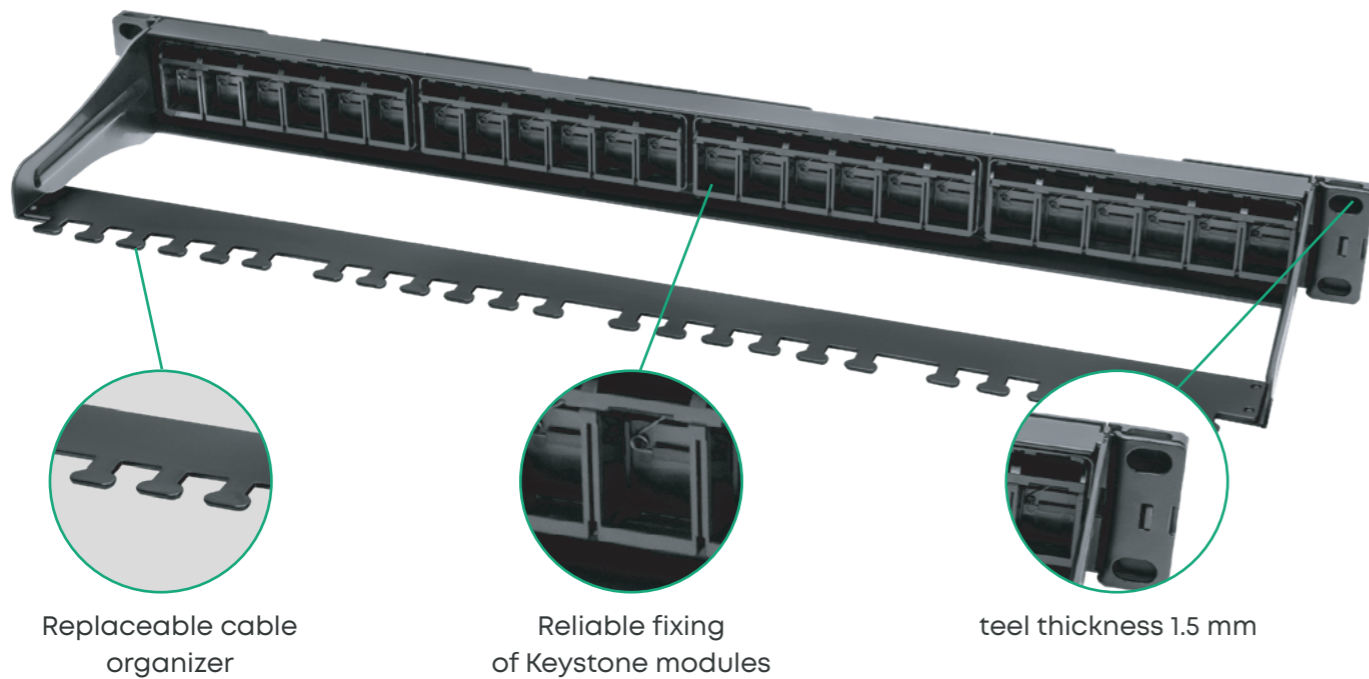
Switchboards of SNR-UL-1U series are made in the unshielded design and are designed for installation in 19" racks. The height of the panels is 1U (44.45 mm).

These patch panels have 24 vacant ports where Keystone modules are to be installed.

The panels can be complete with modules of various types, design and categories depending on the technical requirements.

For administration, ports are numbered and have additional marking locations. Spare ports are protected with a special shutter (SNR-UL-1U24-DS). Patch panels without protective shutters are also available for ordering (SNR-UL-1U24-D).

Organizers supplied with the product make it possible to lay and fix the cables.



The specific feature of the patch bay is the possibility to install the required quantity and type of ports as well as to increase the port's capacity as much as needed during operation (up to 24 ports). This feature provides for maintenance at the lowest cost: in case of a port failure, all you have to do is just replace the faulty port, and you don't need to replace the patch panel.



The switchboard of SNR-UL-1U series consists of 4 replaceable units to be installed on the same chassis. Units are easy to install/dismantle/change places. Each unit is designed for the installation of 6 modules.

The dismantlable structure of panels makes it possible to perform the quick installation with minimum effort as well as to maintain and repair the equipment timely.

The variety of Keystone modules makes it possible to install copper ports and optics through adapters of the required type into this panel. Panels of SNR-UL-1U series are used both in copper and optic networks.

BASIC CHARACTERISTICS

Article	SNR-UL-1U24-DS	SNR-UL-1U24
Number of ports	24	
SCS category, type of ports	Depending on Keystone Jack modules to be installed	
Method of contacts termination	Depending on Keystone Jack modules to be installed	
Marking	Ports numbering + additional marking locations	
Protective shutters	+	-
Dimensions, mm	44,45 x 482.6 x 83	
Weight, g	720	

SCOPE OF SUPPLY

Patch panel	1
Cable organizer	1
Plastic clamps/tie wraps	4
Screw M6	4

INFORMATION FOR ORDERING

SNR-UL-1U24-DS	Switchboard SNR, 19" for KeyStone modules, vacant, unshielded, 1U, 24 ports, cat.5e, dismantlable, ports with shutters
SNR-UL-1U24-D	Switchboard SNR, 19" for KeyStone modules, vacant, unshielded, 1U, 24 ports, cat.5e, dismantlable, ports w/o shutters

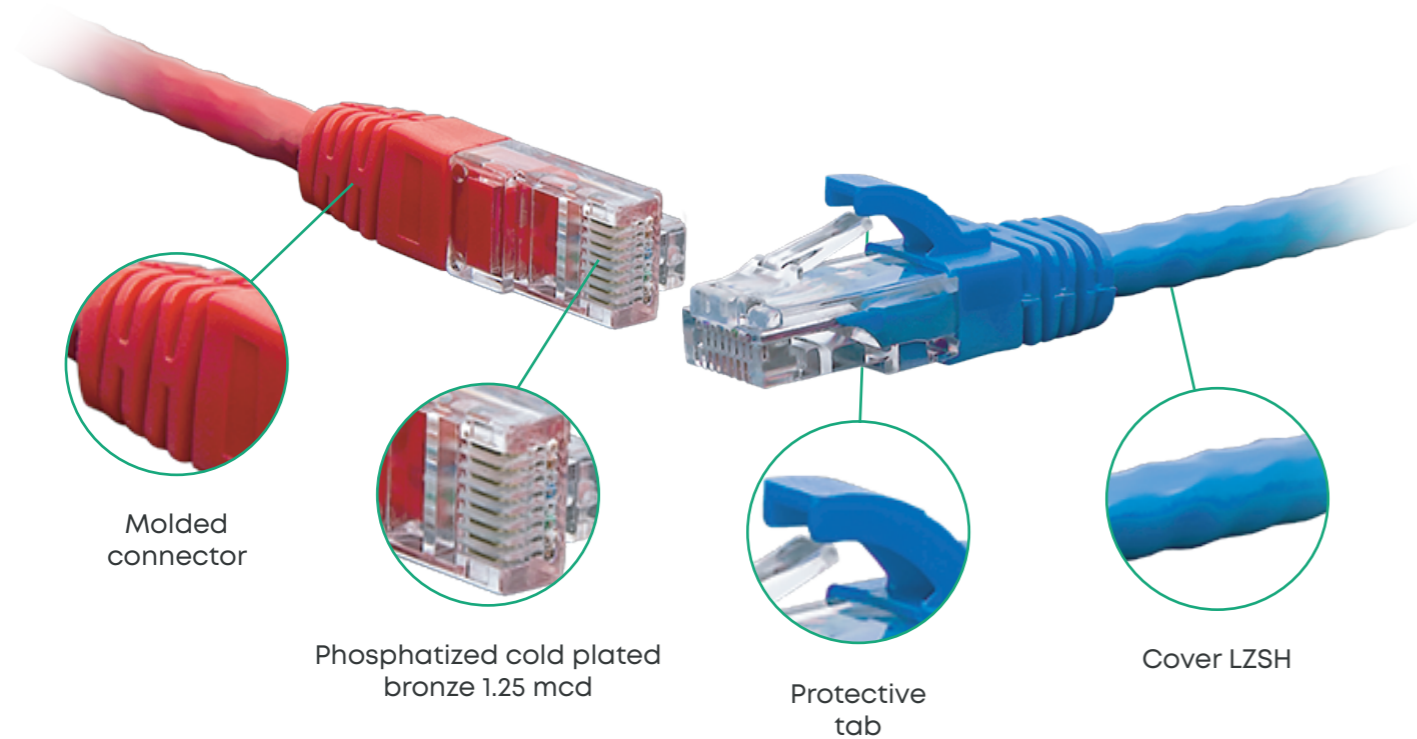
SNR-UU4

- at least 750 connections;
- molded connectors RJ45/8P8C;
- conductor diameter 0.48 mm.

Patch cords SNR-UU4 are used to connect communication lines with active and passive networking equipment and connect a PC and other devices to switchboard sockets.

Structurally, the patch cord is a piece of four-pair unshielded copper cable of cat.5e, cat.6, or cat.6A terminated on both sides with connectors RJ45 (8P8C) as per T568B standard. Connectors are factory installed as per the "hot fit" process that enhances reliability and increases the service life of patch cords compared to cables terminated in the field.

A special protective tab is provided in the design of the connectors to increase service life and simplify the switching process.



Patch cords SNR-UU4 are in line with standards TIA/EIA-568, ISO/IEC 11801, GOST R 54429 and EN 50173 for computers of local area networks (frequency pass band for cat.5e - 100 MHz; for cat.6 - 250 MHz; cat.6A - 500 MHz).

Patch cords of various lengths (0.3 m, 0.5 m, 1 m, 1.5 m, 2 m, 3 m, 5 m, 7.5 m, 10 m) and external cover colours are available for ordering.

BASIC CHARACTERISTICS

Article	SNR-UU4-5E	SNR-UU4-6	SNR-UU4-6A
SCS category	cat.5e	cat.6	cat.6a
Frequency, MHz	100	250	500
Design	unshielded		
Number of conductors	8 (4 pairs)		
Type of conductor	Multi-core		
Conductor diameter, mm	0,48	0,54	0,57
Number and diameter of conductor wire, mm	7×0.16	7×0.18	7×0.20
Number of connections	At least 750		
Wire length, m	0.3 / 0.5 / 1.0 / 1.5 / 2.0 / 3.0 / 5.0 / 7.5 / 10.0		
Outer sheath material	LSZH		
Outer sheath colour	grey (GY) / black (BK) / red (RD) / blue (BL)		
Type of connector	8P8C/RJ-45 – 8P8C/RJ-45		

INFORMATION FOR ORDERING

Model	Description
	Patch cord U/UTP 4-pair 0.3 m LSZH standart
SNR-UU4-XX-005-LST-XX	Patch cord U/UTP 4-pair 0.5 m LSZH standart
SNR-UU4-XX-010-LST-XX	Patch cord U/UTP 4-pair 1.0 m LSZH standart
SNR-UU4-XX-015-LST-XX	Patch cord U/UTP 4-pair 1.5 m LSZH standart
SNR-UU4-XX-020-LST-XX	Patch cord U/UTP 4-pair 2.0 m LSZH standart
SNR-UU4-XX-030-LST-XX	Patch cord U/UTP 4-pair 3.0 m LSZH standart
SNR-UU4-XX-050-LST-XX	Patch cord U/UTP 4-pair 5.0 m LSZH standart
SNR-UU4-XX-075-LST-XX	Patch cord U/UTP 4-pair 7.5 m LSZH standart
SNR-UU4-XX-100-LST-XX	Patch cord U/UTP 4-pair 10.0 m LSZH standart

* Category (5E / 6 / 6A)

** Sheath colour (GY - grey / BL - black / RD - red / BL - blue)

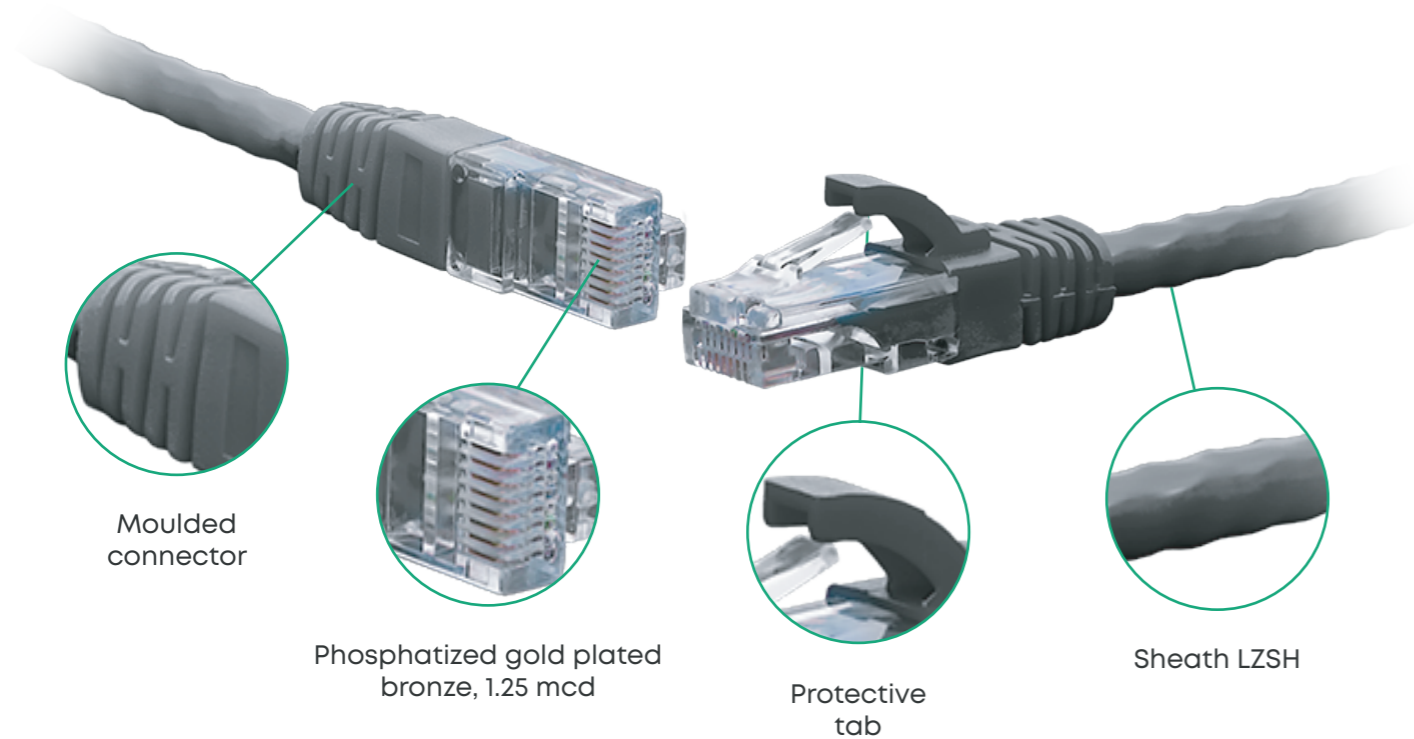
SNR-FU4

- shielded design;
- molded connectors RJ45/8P8C;
- conductor diameter 0.48 mm.

When building modern SCS communication lines, they are usually laid in the standard channel and other cables for various purposes. Isolation of conductors and sheath of standard twisted pair UTP cable cannot ensure lone protection against electromagnetic emission and electric noises that adversely affect the communication quality and results in signal degradation. Cable/patch cords of the shielded design (FTP) are used to solve this problem.

Patch cords SNR-FU4 are made in the shielded design. The cord design uses a common shielding of conductors and special connectors through which the cable shield is grounded.

The cord can be easily and quickly connected due to the protective tab.



Patch cords SNR-FU4 are in line with standards: TIA/EIA-568, ISO/IEC 11801, GOCT P 54429 and EN 50173 for components of local area networks (frequency pass band for cat.5e - 100 MHz).

Patch cords of various lengths (0.3 m, 0.5 m, 1.0 m, 1.5 m, 2.0 m, 3.0 m, 5.0 m, 7.5 m, and 10.0 m) and external sheath colour are available for ordering.

BASIC CHARACTERISTICS

Article	SNR-FU4-5E
SCS category	cat.5e
Frequency, MHz	100
Design	shielded
Shield	aluminized polyester film
Number of conductors	8 (4 pairs)
Type of conductor	multi-core
Conductor diameter, mm	0,48
Number and diameter of conductor wire, mm	7X0.16
Number of connections	at least 750
Wire length, m	0.3 / 0.5 / 1.0 / 1.5 / 2.0 / 3.0 / 5.0 / 7.5 / 10.0
Outer sheath material	LSZH
Outer sheath colour	grey (GY) / black (BK) / red (RD) / blue (BL)
Type of connector	8P8C/RJ-45 – 8P8C/RJ-45

INFORMATION FOR ORDERING

Model	Description
SNR-FU4-5E-003-LST-XX*	Patch cord F/UTP 4 pair cat.5e 0.3 m LSZH standart
SNR-FU4-5E-005-LST-XX	Patch cord F/UTP 4 pair cat.5e 0.5 m LSZH standart
SNR-FU4-5E-010-LST-XX	Patch cord F/UTP 4 pair cat.5e 1.0 m LSZH standart
SNR-FU4-5E-015-LST-XX	Patch cord F/UTP 4 pair cat.5e 1.5 m LSZH standart
SNR-FU4-5E-020-LST-XX	Patch cord F/UTP 4 pair cat.5e 2.0 m LSZH standart
SNR-FU4-5E-030-LST-XX	Patch cord F/UTP 4 pair cat.5e 3.0 m LSZH standart
SNR-FU4-5E-050-LST-XX	Patch cord F/UTP 4 pair cat.5e 5.0 m LSZH standart
SNR-FU4-5E-075-LST-XX	Patch cord F/UTP 4 pair cat.5e 7.5 m LSZH standart
SNR-FU4-5E-100-LST-XX	Patch cord F/UTP 4 pair cat.5e 10.0 m LSZH standart

* Sheath colour (GY - grey / BL - black / RD - red / BL - blue)



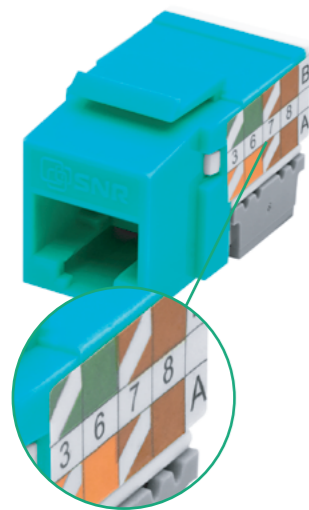
SNR-KJ

- modules of various design and types;
- easy and quick to install;
- application in patch boards and sockets;

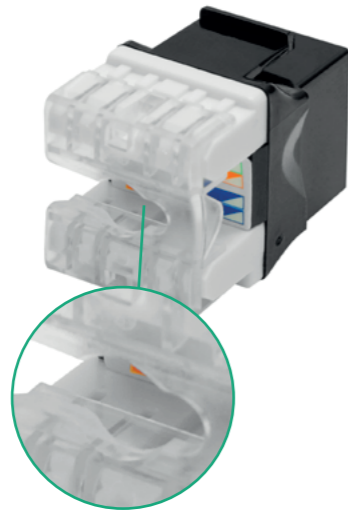
Keystone Jack module is designed by AMP and is currently one of the most commonly used formats of telecommunication contact modules. Keystone modules have been extensively used during SCS building and are applied during the installation of patch panels and wall-mounted sockets.

The module has a simple design: connector RJ-45 is located on the front side, and contacts of IDC types are located on the backside. Cables termination into the module is carried out using a standard tool for IDC contacts. The module casing is fitted with reliable fixtures that make it possible to quickly and easily install it into the patch panel or wall-mounted socket.

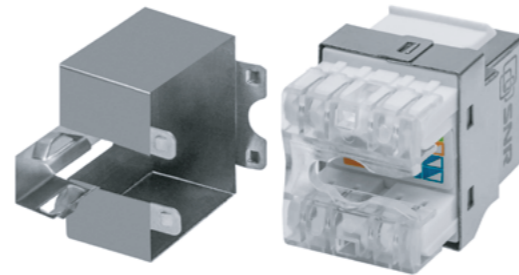
At the same time, it is always possible to reconnect modules and/or replace a single port. The modules are color-coded according to the T568A/B standard, which increases installation speed.



Marking of contacts as per the T568A/B standard



IDC + contacts special plug



Shielded module

For ease of installation, SNR-KJ modules are colour marked: black – category 5e, turquoise - category 6.

Keystone Jack SNR modules meet the requirements of standards: TIA/EIA-568, ISO/IEC 11801, GOST R 54429 and EN 50173 for components of local area networks (for category cat.5e frequency pass band - 100 MHz, for cat.6 - 250 MHz).

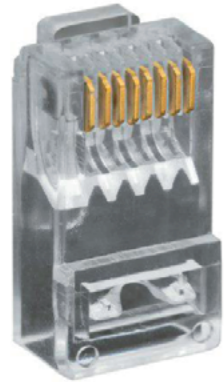
The variety of Keystone Jack modules allows you to configure a patch panel/socket according to the technical requirements. Due to the inserts for the SNR-KJ-FC and SNR-KJ-SC feed-through adapters, the patch panel can be upgraded for fiber optic network applications.

BASIC CHARACTERISTICS

Article	SNR-KJ-F5E-180	SNR-KJ-U5E-90	SNR-KJ-U5E-180	SNR-KJ-U6-90	SNR-KJ-U6-180
SCS category	cat.5e	cat.5e	cat.5e	cat.6	cat.6
Frequency, MHz	100	100	100	250	250
Design	Shielded	Unshielded	Unshielded	Unshielded	Unshielded
Type of contacts termination	Horizontal	Vertical	Horizontal	Vertical	Horizontal
Casing colour	White	Black	Black	Turquoise	Turquoise
Conductor diameter	26-24 AWG			24-22 AWG	
Connector type	8P8C (RJ-45)				
Wiring diagram	T568A/B				
Type of contacts	IDC (insulation displacement connection)				
Tool for contacts termination	Impact tool of 110 type				
Number of modules per set	6 pcs				

INFORMATION FOR ORDERING

Model	Description
SNR-KJ-F5E-180	Module Keystone Jack SNR, shielded, cat.5e, horizontal termination, set of 6 pcs.
SNR-KJ-U5E-90	Module Keystone Jack SNR, unshielded, cat.5e, vertical termination, set of 6 pcs.
SNR-KJ-U5E-180	Module Keystone Jack SNR, unshielded, cat.5e, horizontal termination, set of 6 pcs.
SNR-KJ-U6-90	Module Keystone Jack SNR, unshielded, cat.6, vertical termination, set of 6 pcs
SNR-KJ-U6-180	Module Keystone Jack SNR, unshielded, cat.6, horizontal termination, set of 6 pcs.
SNR-KJ-FC	Keystone insert for through adapter FC
SNR-KJ-SC	Keystone insert for through adapter SC
SNR-KJ-PL	Keystone insert plug
SNR-KJ-F5E-90	Module Keystone Jack SNR, shielded, cat.5e, vertical termination, set of 6 pcs



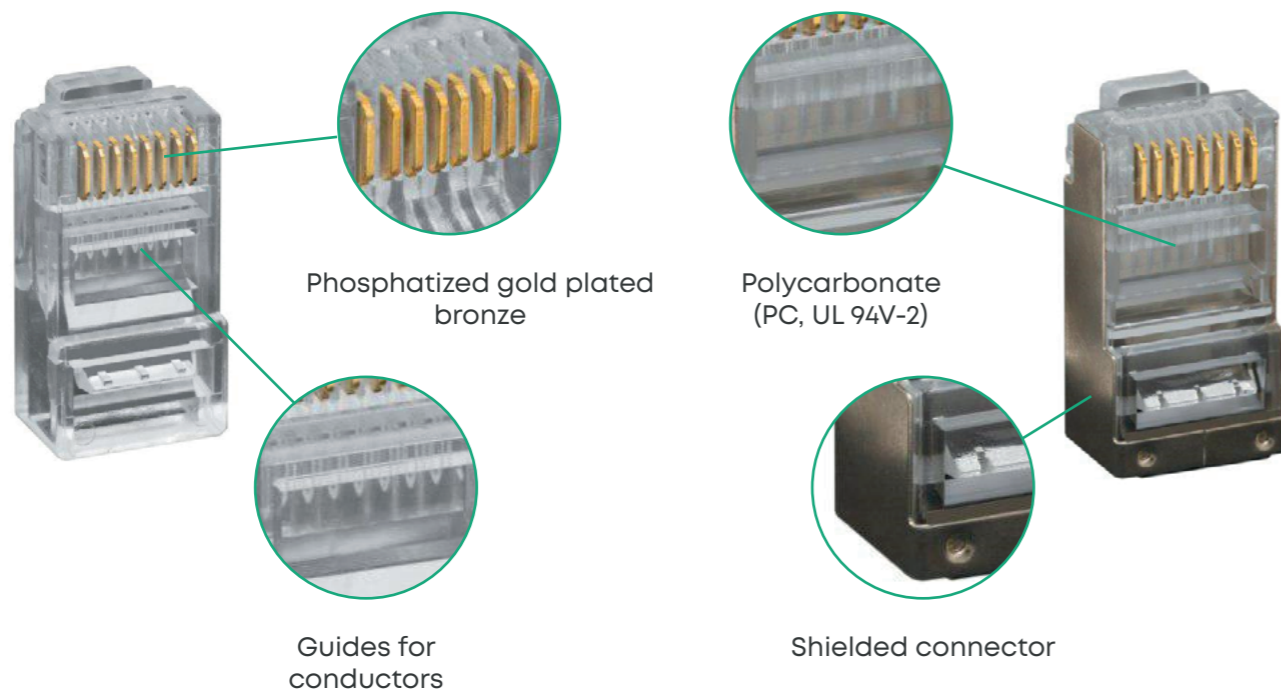
SNR-RJ

- reliable fastening in the equipment;
- a wide operating temperature range;
- connector design – no inserts.

SNR-RJ connectors are designed for copper single-core cable termination during patch cords production as well as when building copper communication lines.

Connectors have a simple design and consist of a casing, a group of contacts and a cable gland. The casing is made from transparent polycarbonate and is designed for application within a wide temperature range (-30°C ~ +80°C).

A special latch ensures reliable fixing of a connector in the equipment to be connected. For additional protection as well as to increase the service life of a connector, a cap SNR-RJ-45-BT is used additionally.



A contact group is made from metals of high conductivity. Additionally, contacts are coated with a different layer of precious metals for conductivity enhancement. Depending on the purpose, connectors have a different number of contacts.

SNR connector design does not include any insert. Such design provides for cable laying directly inside the connector to be subsequently crimped using a special tool.

BASIC CHARACTERISTICS

Article	SNR-RJ-11	SNR-RJ-45	SNR-RJ-45s	SNR-RJ-45-c6
Type of connector	RJ-11 (6P4C)	RJ-45 (8P8C)		
SCS category	cat.3	cat.5e	cat.5e	cat.6
Frequency, MHz	16	100	100	250
Conductors diameter	24-26AWG			23-24 AWG
Design	Unshielded	Unshielded	Shielded	Unshielded
Type of blade	For single-core cables			
Contacts material	Phosphatized gold plated bronze			
Casing material	Transparent polycarbonate (PC, UL 94V-2)			
Quantity per set	100 pcs.			

INFORMATION FOR ORDERING

Model	DescriptionОписание
SNR-RJ-11	Connector RJ-11 (100 pcs)
SNR-RJ-45	Connector RJ-45 UTP5e (100 pcs)
SNR-RJ-45s	Connector RJ-45s 8P8C cat.5e shielded (100 pcs)
SNR-RJ-45-c6	Connector RJ-45 8P8C cat.6 (100 pcs)
SNR-RJ-45-BT	Strain relief boots for SNR-RJ-45 (100 pcs)



Copper cables of the twisted pair type are the primary medium for data signal transfer within any SCS. The performance and operation of the built infrastructure will directly depend on the quality of the selected cable. For this reason, when designing an SCS, it is necessary to pay special attention to choosing a twisted-pair cable based on the feasibility of the selected solution (design).

100% of electrical copper is used in the twisted pair LANsens. Therefore the cable is characterized by perfect performance and is the best option for solving various tasks:

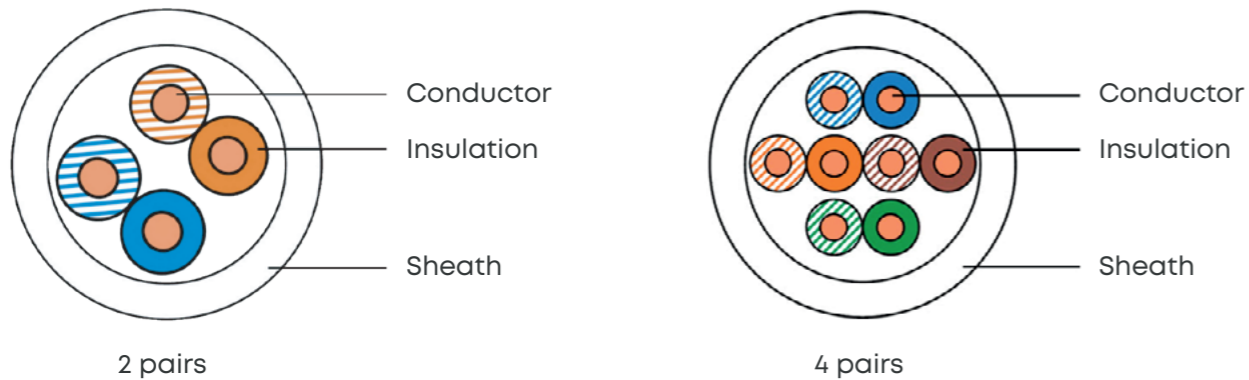
- installation of a local network;
- arrangement for broadband access;
- SCS building.

Twisted pair LANsens is included in the structured cabling system SNR and is fully compatible with its components.

Unshielded twisted pairs (UTP) of a twisted pair cable are applied when no electromagnetic noises are found and are currently deemed the most used.

Unshielded LANsens cables are designed for application in the structured cabling system of category 5 and 5e and are found in the following versions:

- with 2 or 4 pairs;
- with solid copper core 0.51 or 0.52 mm;
- with PVC sheath (polyvinyl chloride) or PE (polyethylene).



BASIC CHARACTERISTICS

Article	1-02-5-1051	1-04-5-1051	1-04-5-1052	1-04-5-2151	1-04-5-2152
Category	cat.5e				
Frequency passband, MHz	100				
Design	UTP				
Type of shield	N/A				
Number of pairs	2	4			
Conductors material	Copper				
Conductors diameter, mm	0,51±0,01	0,51±0,01	0,52±0,01	0,51±0,01	0,52±0,01
External sheath material	PVC (polyvinylchloride)			PE (polyethylene)	
Metres per set	305				

INFORMATION FOR ORDERING

Model	Description
1-02-5-1051	Two-pair unshielded (U/UTP) copper cable of "twisted pair" type with solid copper conductor (solid) cat.5e and conductive core diameter of 0.51 mm
1-04-5-1051	Four-pair unshielded (U/UTP) copper cable of "twisted pair" type with solid copper conductor (solid) cat.5e and conductive core diameter of 0.51 mm
1-04-5-1052	Four-pair unshielded (U/UTP) copper cable of "twisted pair" type with solid copper conductor (solid) cat.5e and conductive core diameter of 0.52 mm
1-04-5-2151	Four-pair unshielded (U/UTP) copper cable of "twisted pair" type with solid copper conductor (solid) cat.5e and conductive core diameter of 0.51 mm
1-04-5-2152	Four-pair unshielded (U/UTP) copper cable of "twisted pair" type with solid copper conductor (solid) cat.5e and conductive core diameter of 0.52 mm

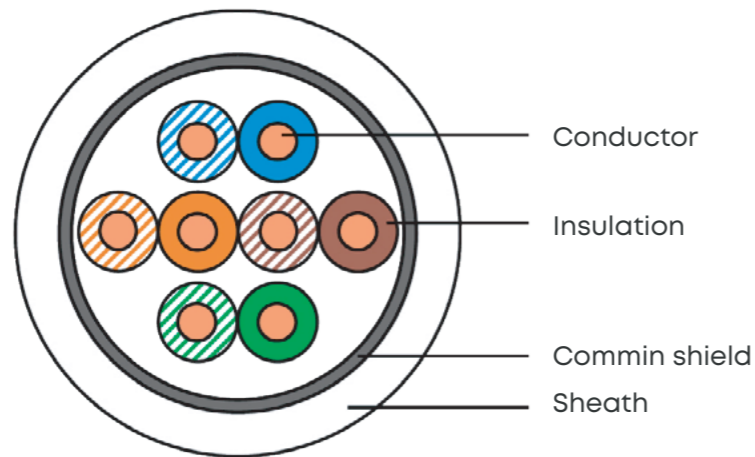


Communication lines are often laid in a standard route with other cables, as well as in rooms with a high level of electrical noise and interference, which can significantly impact the quality of the transmitted signal. In this case, the cable can act as a receiver of electromagnetic interferences, as well as the source of such interferences. Shielding of conductors is used to solve these problems. All pairs of conductors are combined by a typical shield in the twisted pair cable of FTP (Foiled Twisted Pair) type, which protects the signal against the adverse effect of electromagnetic emission and electromagnetic noises.

Polyester aluminum foil is used in LANsens cables as a shield to ensure stable reflection of the electromagnetic emission, catch electric noises, and redirect them to the grounding bus.

Shielded LANsens cables are designed for application in the structured cabling system of category 5 and 5e and are found in the following two versions:

- with PVC (polyvinylchloride) sheath for indoor use;
- with PE (polyethylene) sheath for outdoor use.



BASIC CHARACTERISTICS

Article	2-04-5-1051	2-04-5-2151
Category	cat.5e	
Frequency passband, MHz	100	
Design	F/UTP	
Type of shield	N/A	
Number of pairs	4	
Conductors material	Copper	
Conductors diameter, mm	0,51±0,01	
External sheath material	PE (polyethylene)	PVC (polyvinylchloride)
Metres per set	305	

INFORMATION FOR ORDERING

Model	Description
2-04-5-1051	LANsens twisted pair cable FTP, 4 pairs Cat.5e, PVC, indoor, master, 305 m
2-04-5-2151	LANsens twisted pair cable FTP, 4 pairs Cat.5e, PE, outdoor, 305 m
2-04-5-2252	LANsens twisted pair cable FTP, 4 pairs Cat.5e, PE, outdoor messenger, master, 305 m



Crimping tool for modular plugs SNR-HT-2008A

- several functions in one tool: crimping connectors of various types, cutting and stripping cables;
- high-quality crimp connectors;
- handle lock for easy handling.

SNR-HT-2008A is designed for crimping 4/6/8-contact modular plugs of the following types: RJ-45 (8P8C), RJ-12(6P6C), RJ-11 (6P4C/4P4C)



Crimping tool for jack plugs KN-975112

- professional tool for cutting and stripping flat, unshielded telephone cables;
- for crimping 4-, 6- and 8-poles jack plugs of the following types: Western type RJ 10 (width 7.65 mm) type KO 11/12 (width 9.65 mm) and type RJ 45 (width 11.68 mm);
- precision parallel crimping;
- consistent high quality of crimping due to force locking and fastening;
- increased cutting force due to leverage for fatigue-free operation;
- including longitudinal cutter and blade to remove insulation along 6 and 12 mm;
- special quality chrome vanadium electric steel, oil-quenched.

Knipex KN-975112 tool is designed for the termination of cables and crimping 4/6/8-poles Western plugs of RJ 10 (4-pole) type 7.65 mm; RJ 11/12 (6-pole) 9.65 mm; RJ 45 (8-pole) 11.68 mm.



Инструмент для опрессовки штекеров KN-975110

- professional tool for cutting and stripping flat, unshielded telephone cables;
- precision crimping due to parallel stroke of jaws;
- consistent high quality of crimping due to force locking (including unlocking);
- including a blade to shorten and blade to strip flat cable sheath along 6 and 12 mm;
- special quality chrome vanadium electric steel, oil-quenched.

Knipex KN-975110 tool is designed for termination of cables and crimping Western plugs of RJ 11/12 type (width 9.65 mm) and RJ 45 type (width 11.68 mm)

BASIC CHARACTERISTICS

Article	SNR-HT-2008A	KN-975112	KN-975110
Type of connector	RJ11 (6P4C/4P4C/4P2C) RJ12 (6P6C) RJ45 (8P8C)	RJ10 (4P4C) RJ 11/12 (6P6C) RJ45 (8P8C)	RJ11 (6P4C/4P4C/4P2C) RJ12 (6P6C) RJ45 (8P8C)
Material	Steel/plastic		
Dimensions, mm	200x75x22	235x65x35	217x70x25
Weight, kg	0,5	0,52	0,34

INFORMATION FOR ORDERING

Model	Description
SNR-HT-2008A	Tool SNR-HT-2008A is designed for crimping 4/6/8-contact modular plugs of RJ-45 (8P8C), RJ-12 (6P6C), RJ-11 (6P4C/4P4C) type
KN-975112	Tool Knipex KN-975112 is designed for termination of cables and crimping of 4/6/8-pole Western plugs of RJ 10 type (4-pole) 7.65 mm; RJ 11/12 type (6-pole) 9.65 mm; RJ 45 type (8-pole) 11.68 mm.
KN-975110	Tool Knipex KN-975110 is designed for termination of cables and crimping of 6/8-pole Western plugs of RJ 11/12 type (width 9.65 mm) and RJ 45 type (width 11.68 mm)



Multi-purpose cable stripper SNR-HT-352

- adjustable stripping depth;
- return mechanism;
- structurally simple and easy to operate.

Tool SNR-HT-352 is designed to strip external sheath from coaxial cables RG-59, RG-6, RG-11, RG-7, as well as twisted pair and flat telephone cables. The tool is fitted with special blades to cut cables and conductors.

The tool is fitted with the twisted pair cutting depth control mechanism that makes it possible to prevent damage to conductors insulation and cable cores during stripping. For ease of operation, the stripper is fitted with a return spring to ensure the return stroke of the tool to its initial position.



Multi-purpose cable stripper SNR-HT-S501B

- multi-purpose tool: sheath stripping, cables and conductors cutting;
- adjustable stripping depth;
- return mechanism;
- structurally simple and easy to operate.

Multi-purpose cable stripper SNR-HT-S501B is designed for cutting and splitting the external sheath of the cable / conductive core.

The tool is fitted with the twisted pair trimming depth control mechanism that makes it possible to prevent damage to conductors' insulation and cable cores during stripping. For ease of operation, the stripper is fitted with a return spring to ensure the return stroke of the tool to its initial position.



Tool for cable laying KN-974010

- tool for cable laying in ducts, sockets and patch panels;
- crimping and cutting in one operating stroke;
- for cables of UTP-and STP type including conductor Ø 0.4 – 0.8 mm;
- including a built-in hook for extraction including unlocking;
- casing: impact-resistant plastic.

Tool Knipex KN-974010 is designed for laying and crimping cables of UTP, STP, LSA-PLUS types and their equivalents in punch-down blocks, patch panels and sockets.

The tool is fitted with shears to cut excess cable during crimping and with a hook to extract the conductor from punch-down block contacts.

BASIC CHARACTERISTICS

Article	SNR-HT-352	SNR-HT-S501B	KN-974010
Size of the split cable, mm	UTP/FTP/STP RG-59/RG-6/RG-7	3,2~4 (hole 1) 5~9 (hole 2)	-
Type of connector	-	-	110/Krone
Material	Steel/plastic		
Dimensions, mm	124x70x18	110x17x57	183x35x27
Weight, kg	0,065	0,065	0,1

INFORMATION FOR ORDERING

Model	Description
SNR-HT-352	Multi-purpose cable stripper including adjustments available for twisted pair, flat telephone and coaxial cable RG-59, RG-6, RG-11, RG-7
SNR-HT-S501B	Multi-purpose cable stripper including stripping depth control
KN-974010	Tool for laying cables of LSA-Plus type



Twisted pair termination tool SNR-HT-3141

- control of core (sensor) termination;
- shears including locking option;
- does not require soldering and removal of conductors insulation;
- crimping of contacts and cutting excess cable in one operating stroke;
- built-in tools for conductors / punch-down blocks;
- multi-purpose tool: used for switching panels, patch panels, sockets and modules.

Tool SNR-HT-3141 is designed for conductors' termination into IDC (IDC 110/Krone) switching panels, patch panels, sockets and modules.

The tool terminates contacts and cuts excess cable using special shears built-in into the blade structure in one stroke. The shears are fitted with a locking mechanism. Shear locking is required to ensure the option of core connection to the adjacent contact.

Special metal tools are built into the lever, making the process even easier. The hook is designed to extract the cores out of contracts. A dismantling wedge is designed for removing punch-down blocks of Krone type from the mounting clamp.



Percussion tool SNR-HT315DR

- simultaneous termination of 4 or 5 pairs of cable in switching panels or modules of 110 type;
- fast termination of contacts and conductors cutting;
- termination of conductors of 24 AWG diameter.

Impact tool SNR-HT315DR is designed for cords installation into switching panels of 110 type, as well as for installation of four or five pairs of switchboards of 110 type.

This tool is designed for conductors of 24AWG diameter. For operation, preliminary removal of conductors insulation is not required.

The tool is fitted with spring-based support for blades fixing and unlocking mechanisms. The tool design makes it possible to change adapters. The tool design makes it possible to change adapters. The scope of supply included a replaceable adapter for 5 pairs (SNR-HT-15D).

BASIC CHARACTERISTICS

Article	SNR-HT-3141	SNR-HT-324B	SNR-HT315DR
Type of connector	110/Krone	110/88	110
Material	Steel/plastic		
Dimensions, mm	183x35x27	143x30x28	длина: 230
Weight, kg	0,085	0,14	0,5

Impact tool for switching panels SNR-HT-324B



- does not require soldering and removal of conductors insulation;
- crimping of contacts and cutting excess cable in one operating stroke;
- possibility to install different types of blades.

Impact tool SNR-HT-324B is designed for termination of twisted pairs into modular plugs, patch panels and switching panels with contacts of 110/88.

The tool design makes it possible to install double-sided blades of various types. Therefore, the tool can be used to terminate the core into contacts of various types based on the installed blade. A blade can be easily installed and fixed in the tool's main casing.

The scope of SNR-HT-324B supply includes one blade HT-14B designed for contacts of 110/88 type. A blade has a double-sided effective surface: one side is fitted with a blade for cutting excess cable; another side of this blade has no blade. If required, a specialist may install the surface of the cutting needed.

The tool casing is made from impact-resistant plastic; the blade is manufactured from high-quality instrumentation steel. The tool fits easily in one hand. It is simple and easy to use.

INFORMATION FOR ORDERING

Model	Description
SNR-HT-352	Multi-purpose cable stripper adjustable for twisted pair, flat telephone and coaxial cable RG-59, RG-6, RG-11, RG-7
SNR-HT-S501B	Multi-purpose cable stripper including stripping depth control
KN-974010	Tool for laying cables of LSA-Plus type



Network cable tester SNR-LP-01

Network cable tester SNR-LP-01 is designed for contact verification of cables 10Base-T, 10Base-2, modular cables RJ45/RJ11, cables TIA-568A/568B and Token Ring.

The transmitter and receiver are installed on both sides of the line, the signal is to be compared. Based on this comparison, cable breakout, open core, short circuit, and sequence of cores connection can be detected and determined. This tester may also be used for patch panels and wall-mounted sockets.

The scope of supply included a particular block for testing PoE (Power over Ethernet) that is designed to determine the type of power supply to the equipment PoE (End-Span/ Mid-Span). It is used for testing copper ports of standard equipment IEEE 802.3af and IEEE 802.3at (PoE Plus).



BASIC CHARACTERISTICS

Article	SNR-LP-01	SNR-HT-522
Type of indicator	LED	LED + audio alarm
Type of connector	RJ-45 (8P8C) RJ-11 (4P4C) BNC	RJ-45 (8P8C) RJ-11 (4P4C) BNC
PoE	Yes	No
Dimensions, mm	81x57x24 (transmitter) 81x26x24 (receiver)	135x62x30 (transmitter) 227x34x30 (receiver)
Weight, kg	0,25	0,42

INFORMATION FOR ORDERING

Model	Description
SNR-LP-01	Cable Tester including the option of PoE identification
SNR-HT-522	Multi-purpose device for cables testing and search



Linear tester SNR-HT-522

Linear tester SNR-HT-522 is designed for search and identification of harness cables, cables in hidden cavities (distance apart) as well as for the verification of cable integrity. The tester is a set of two functional blocks (transmitter and receiver) which are connected to both sides of the line to be checked/identified.





Linear tester NF-468

- simple and user-friendly interface;
- fast and automatic testing of communication lines;
- detection of faults: breakout, short circuit, the incorrect connection of cores;
- testing rate adjustment;
- small dimensions and weight.

Linear tester Noyafa-468 is designed for verification of twisted pair and telephone cable, terminated with connectors RJ-45, RJ-12, RJ-11 (8P8C, 6P6C, 4P4C). This device makes it possible to determine the short circuit, integrity, and sequence of cable cores.

The tester is easy to use and consists of a transmitter (MASTER) and receiver (REMOTE), which are connected on both sides of the tested line. Upon connecting to the line, the tester checks the cable wires and LED indicators to show their integrity and sequence.

Due to the fastening mechanism, blocks are interconnected that essentially reduce their transportation and storage.



Cable tester NF-8108A

- multi-purpose cable tester with the option of length determination;
- convenient and user-friendly interface;
- large LCD to screen settings/results;
- power save function.

Noyafa-8108A tester is designed for diagnostics of twisted pair cables of different design (UTP, FTP, STP).

Unlike other linear testers, this model is equipped with an LCD and has enhanced performance and extended functions. All this makes NF-8108A an indispensable assistant not only in local network operations but also in diagnosing SCS.

The tester is easy to use and consists of a transmitter and receiver connected to both sides of the tested line. The transmitter (main block) is fitted with an LCD, control buttons as well as two ports RJ-45. The first port (MAIN) is the basic port; the second port (LOOPBACK) is the response port. The two ports in the basic block of the device contribute to the diagnostics of copper patch cords without involving any receiver.

With high accuracy, the built-in TDR (Time Domain Reflectometer) allows you to determine the distance to an open or short circuit. The maximum detectable distance to the twisted pair cable is 305 meters.

The device is powered by four 1.5V AA batteries (not included in the scope of supply). To save energy, the device will automatically be turned off after 30 minutes if not in use.



Multi-purpose cable tester NF-300

- allows measuring the length of LAN, coaxial cable of up to 2500 m, without involving any direct length measuring;
- the function of battery discharge notification is available;
- allows using the built-in storage and memory;
- automatic shutdown with delay and backlight function

Noyafa-300 is a multi-purpose tester that is designed for testing twisted pairs, including for determination of the cable length, identification of cable, phase interferences, cross noises points and breakout and may be used during installation and servicing low voltage communications and other networks. This tester is characterized by an enhanced resistance to signal interference. The device consists of the three components: a NF-300 tester, a NF-300-S receiver and a NF-300-R sensor.

BASIC CHARACTERISTICS

Article	NF-468	NF-8108A	NF-300
Type of indicator	Светодиод	53x25 LCD	128x64 LCD + LED + audio signal
Type of connector	RJ-45 (8P8C) RJ-11 (4P4C)	RJ-45 (8P8C)	RJ-45 (8P8C) RJ-11 (4P4C) BNC USB
PoE	No		
Dimensions, mm	103x65x26 (transmitter) 103x33x26 (receiver)	184x84x46 (transmitter) 78x38x22 (receiver)	175x80x43 (transmitter) 218x46x29 (receiver) 107x30x24 (sensor)
Weight, kg	0,15	0,5	0,55

INFORMATION FOR ORDERING

Model	Description
NF-468	Linear tester for twisted pair and telephone cable
NF-8108A	Cable tester with the function of length determination for twisted pair cables (UTP/FTP/STP), LCD display
NF-300	Multi-purpose tester for twisted pair, telephone and coaxial cables



Multi-purpose cable tester NF-8601

- multi-purpose tester for repair and maintenance of communication cable lines, SCS;
- a flashlight is built in the NF-8601-S receiver for operation in poor illumination;
- 1800 mAh Li-Ion batteries: run time of NF-8601 transmitter is up to 20 hours, run time of NF-8601-S receiver is up to 50 hours (provided the battery is fully charged);
- theadjustable function of automatic shutdown;
- diagnostics results saving and copying to PC using the USB interface

Noyafa-8601 is a multi-purpose tester designed for faults diagnostics and determination for telephone, coaxial and twisted pair cables of various designs (UTP/ FTP/STP cat.5e, cat.6e). In addition to verification, this line support the function of Ping-testing and PoE determination (Power over Ethernet).

The tester assembly consists of the three devices performing specific functions. The primary device NF-8601 allows choosing the required testing mode and settings. The diagnostics results are displayed in the colour LCD-screen 2.8" and can be saved on a memory card (TF). NF-8601-S receiver is used to search, identify, and verify the integrity of harness cables and cables in hidden cavities (distance apart). NF-8601-R remote sensor is the passive device and is used for cable verification by method M-R (Main - Remote).



Multi-purpose cable tester NF-8601S

- testing of various types of cables for the breakout, short circuit, noises from adjacent cords;
- the function of cable identification in harness/route;
- ping-testing in local area network and internet;
- determination and use of IP address (DHCP client);
- package data analysis: quantity, length, time out, TTL
- determination of PoE (Power over Ethernet)

Noyafa-8601S is an updated version of the popular NF-8601 tester. The appearance and configuration of the device remain unchanged while its functions are changed. Compared to NF-8601, the new model includes a more complicated analysis process (optical time domain reflectometer TDR), which allows in practice more accurate and detailed data. This is the primary, however not the only, difference between these models: see more details in "References and Downloads."

BASIC CHARACTERISTICS

Article	NF-8601	NF-8601W	NF-8601S
Type	capacity	capacity	optical time domain reflectometer TDR
Type of indicator	320x244 colour LCD + LED + audio signal	320x244 colour LCD + LED + audio signal	320x244 colour LCD + LED + audio signal
Type of connector	RJ-45 (8P8C) RJ-11 (4P4C) BNC USB	RJ-45 (8P8C) RJ-11 (4P4C) BNC USB	RJ-45 (8P8C) RJ-11 (4P4C) BNC USB
PoE	Yes		
Dimensions, mm	173x92x35 (transmitter) 183x58x35 (receiver) 106x32x30 (sensor)	173 x 92 x 35 (transmitter) 183 x 58 x 35 (receiver) 106 x 30 x 30 (sensor)	173x92x35 (transmitter) 183x58x35 (receiver) 106x32x30 (sensor)
Weight, kg	0,76	1,047	0,76

INFORMATION FOR ORDERING

Model	Description
NF-8601	Multi-purpose tester for twisted pair, telephone and coaxial cables, Ping-test, determination of PoE, colour LCD-display
NF-8601W	Multi-purpose tester for twisted pair, telephone, coaxial and power cables, Ping-test, determination of PoE, colour LCD-display
NF-8601S	Multi-purpose tester for twisted pair, telephone, coaxial and power cables, Ping-test, determination of PoE, colour LCD-display

Multi-purpose cable tester NF-8601W



- remote sensor with DTMF signals for wires ringing out;
- the function of results saving in the device memory;
- microprocessor with the self-testing system built in the software ensures reliable operation of the entire complex;
- the function of battery discharge notification

NF-860W is a multi-purpose device applied for cords length measuring, lines location and search for cord breakout, PING-tests, verifications for POE and voltage in the cord. The operator may see the test results in the colour display of 3.7 inches (94 mm). All the listed above options make this device a reasonably usable tool for the personnel that installs low voltage systems and service communication lines. It is widely used in telephone systems, computer networks and in other networks with metal conductors.

NF-860W makes it possible to identify cross-current noises. The set of equipment includes three components: main tester (NF-8601-M), receiver (NF-8601-S) and remote sensor (NF8601-R). NF-8601W model set includes eight remote sensors for ease of operation and reduced of network adjustment time



SNR SURFACE MOUNTED SOCKETS

- impact resistant plastic;
- small dimensions and weight;
- ease of installation and maintenance.

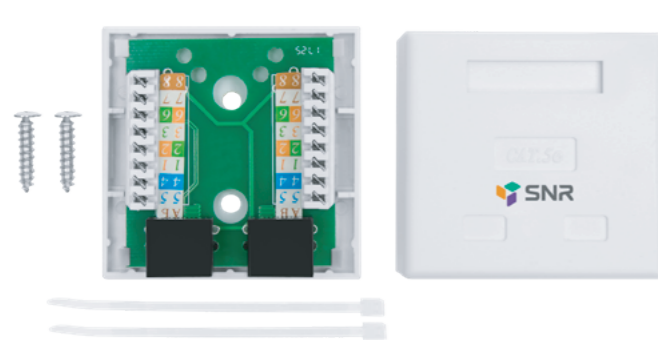
A User's socket is an integral element of the structured cabling system of a house, apartment, or office and is designed to connect various equipment to the common network through twisted pair cables. Sockets allow for a reduction of the number of wires and cables inside significant premises as well as preserving their aesthetic appearance.

Surface mounted (external) sockets consist of a cover and base; are installed directly on the wall using the double-sided self-adhesive pads or mounting screws.

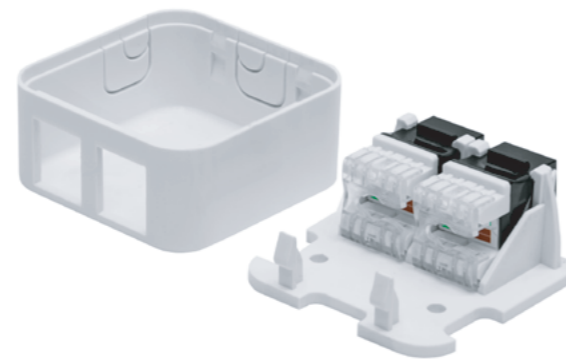
The following two types of surface-mounted sockets are found:

- sockets with ports RJ-11/RJ-45 (SNR-C3-WO1, SNR-C5E-WO1, SNR-C5E-WO2) installed;
- unloaded, designed for installation of modules of Keystone type (SNR-WO-KJ2, SNR-MB-DPS-1, SNR-MB-DPS-2).

This type of socket makes it possible to install the required type of module as per the technical requirements as well as to quickly and easily replace it.



Scope of socket SNR-C5E-WO2 supply with two ports RJ-45



SNR-WO-KJ2 socket with Keystone Jack modules installed

User's sockets SNR are characterized by small dimensions and perfectly fit various interiors. The socket cover contains an area for marking that acts as network management.

Sockets with installed RJ ports are fitted with colour marking meeting the standards T568A and T568B for ease of installation. Contact termination is performed using the standard impact tool of Krone and 110 types.

BASIC CHARACTERISTICS

Article	SNR-C3-WO1	SNR-C5-WO1	SNR-C5-WO2	SNR-WO-KJ2	SNR-MB-DPS-1	SNR-MB-DPS-2
Number of ports	1	1	2	1/2	1	2
Type of ports	RJ-11 (6P4C)	RJ-45 (8P8C)	RJ-45 (8P8C)	Based on the Keystone module used		
Category	cat.3	cat.5e	cat.5e			
Design	Unshielded					
Protection Rating	IP20					
Dimensions, mm	57x42x24	65x50x25	62x59x26	56x56x27	60x42x26	70x60x26

INFORMATION FOR ORDERING

Model	Description
SNR-C3-WO1	Surface mounted socket 1xP/11
SNR-C5-WO1	Surface mounted socket teRJ45 (SNR-SMB-2108A)
SNR-C5-WO2	Surface mounted socket 2xRJ45 (SNR-SMB-2109A)
SNR-WO-KJ2	User socket SNR, surface mounted, for Keystone modules, 2 ports
SNR-MB-DPS-1	Casing of SNR wall mounted socket for KeyStone module, 1 port
SNR-MB-DPS-2	Casing of SNR wall mounted socket for KeyStone module, 2 ports



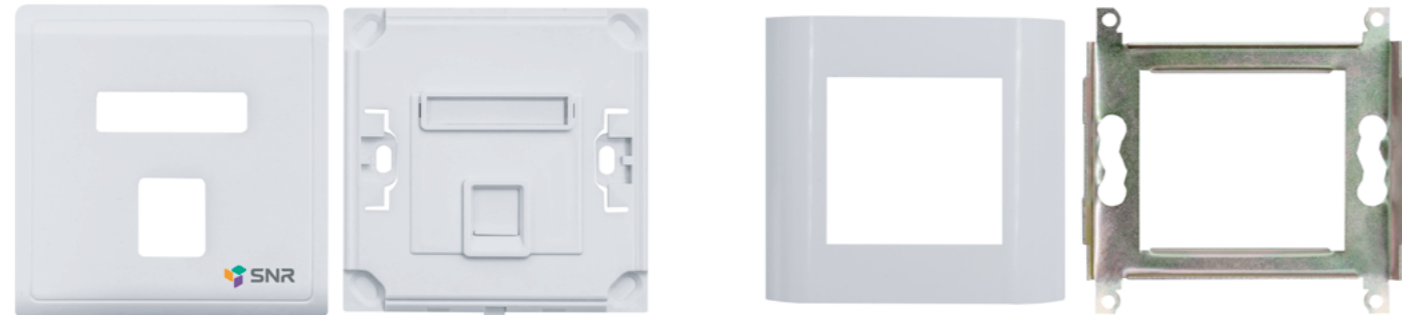
EMBEDDED SNR SOCKETS

- ports protective shutters;
- ease of installation and maintenance;
- possibility to install Keystone Jack modules.

Embedded (internal) sockets are used for the hidden pulling of communication lines and are mounted directly on the wall or cable duct.

SNR-EM-KJ1 (KJ-2) users` sockets have dimensions meeting the European standard (86x86 mm) and are mounted in the standard mounting box. These models are widely used for SCS buildings; are designed for the termination of copper communication lines and workplace arrangements. The socket design allows installing up to two modules of the Keystone Jack type.

The front panel SNR-FP-M45 and special SNR-MB-FP-1 (FP-2) to be installed in it are used similarly.



External frame and support of SNR-EM-KJ2 socket

Front panel of SNR-FP-M45



SNR-MB-FP-1 and FP-2 Inserts

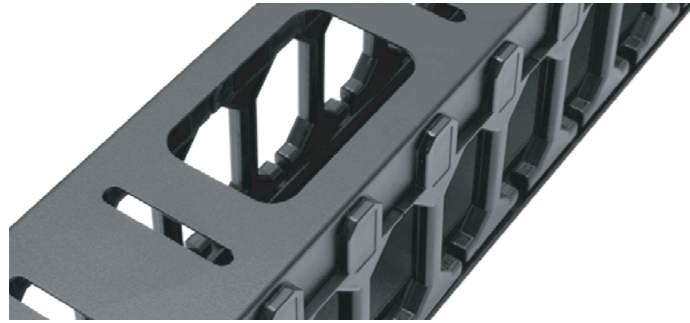
An area for marking is located on the front panel of sockets. Ports are protected with special shutters. The scope of supply includes support for fastening that makes it possible to mount sockets at the workplace without any additional cost.

BASIC CHARACTERISTICS

Article	SNR-EM-KJ1	SNR-EM-KJ1	SNR-FP-M45	SNR-MB-FP-1	SNR-MB-FP-2
Number of ports	1	2	-	1	2
Type of ports	Based on Keystone module used				
Category					
Design	Unshielded				
Casing material	ABS plastic (UL 94V-0)				
Dimensions, mm	86x86x15		80x80x9	22,5x24,5x45	45x45x22

INFORMATION FOR ORDERING

Model	Description
SNR-EM-KJ1	SNR User`s socket, embedded, for Keystone module, 1 port
SNR-EM-KJ1	SNR User`s socket, embedded, for Keystone module, 2 ports
SNR-FP-M45	Front side 80x80 mm for modules 45x45 metal frame
SNR-MB-FP-1	SNR insert for KeyStone modules, 1 port, 45x22.5 mm
SNR-MB-FP-2	SNR insert for KeyStone modules, 2 ports, 45x45 mm



CABLE ORGANIZERS OF SNR-VR AND SNR-FB SERIES

- vertical and horizontal versions of design;
- reliable fastening of cable lines;
- ergonomic design.

Cable organizers are designed for organizing cable trunk lines inside telecommunication cabinets and racks. The application of organizers positively affects the ease of operation and maintenance of active and passive equipment; moreover, the general order and aesthetic appearance of finished technical solutions using such organizers are perfect.

Organizers of SNR-VR series are used for laying vertical cable infrastructure and are mounted inside telecommunication cabinets/racks, which are 42U high.

Organizers of SNR-FB series are intended to lay and fasten communication lines within the horizontal plane and are mounted in 19-inches racks.



Vertical cable organizer
SNR-VR-ORG-1-42



Vertical cable organizer
SNR-VR-ORG-2-42



Half-ring organizer
SNR-FB-ORG



Horizontal cable organizer
SNR-FB-ORG



Horizontal cable organizer
SNR-FB-ORG-2



Horizontal cable organizer
SNR-FB-ORG-3

The use of cable organizers makes it possible to establish the process margin for communications cable length and patch cords, while cable trunk lines become additionally protected against external mechanical exposures. Another essential purpose of cable organizers is to reduce the mechanical load on the switching point due to the distribution of the cord's weight on the organizer structure.

BASIC CHARACTERISTICS

Article	SNR-VR-ORG-1-42	SNR-VR-ORG-2-42	SNR-FB-ORG	SNR-FB-ORG-2	SNR-FB-ORG-3	SNR-FB-ORG-R
Type of organizer	Vertical		Horizontal			Vertical
Height	42U		1U			-
Material	Cold rolled steel	Cold rolled steel + ABS plastic		Steel	ABS plastic	
Dimensions, mm	187x95x70	187x90x110	481x80x43	482x47x43	482x87x47	69x41x17
Weight, kg	3,2	8,6	0,4	0,58	0,36	0,03

INFORMATION FOR ORDERING

Model	Description
SNR-VR-ORG-1-42	Vertical cable organizer including cover, 95x70 mm, 42U
SNR-VR-ORG-2-42	Vertical cable organizer including cover, 90x110 mm, 42U
SNR-FB-ORG	Cable organizer SNR-FB-ORG
SNR-FB-ORG-2	Кабель Cable organizer SNR-FB-ORG-2
SNR-FB-ORG-3	Cable organizer, plastic, 1U
SNR-FB-ORG-R	Half-ring, vertical, for cable harness organization

NAG is a leading telecom and IT solution provider representing a 20-year history of expertise. NAG has been working with a large number of customers in the CIS and around the world since 2004 providing the following solutions:

- full range of equipment for telecom operators;
- L2 and L3 Networking solutions;
- SOHO WiFi Routers and IPTV STB equipment;
- intelligent video surveillance systems with built-in analytics;
- Servers and Storages;
- Infrastructure and Power supply solutions.

With over 650 dedicated employees, including a strong engineering team of 150+ employees, NAG operate offices in Dubai (UAE), Almaty (Kazakhstan) and Tashkent (Uzbekistan). Our logistics centers in Washington (USA) and Shanghai (China) allow working directly with foreign partners and ship out goods with the highest quality and optimized timelines.



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