



RJ45 UNSHIELDED MODULAR JACK

MODULAR JACK UTP, RJ-45, CAT.6, KEYSTONE

RJ45 modular jacks are designed for cable termination and typically installed in work area outlets or in modular patch panels to provide connections of active equipment to network in office structure cabling systems or in data centers. Keystone mating face fits into different applications. Modular jack has an unshielded design and compliant with Category 6 (TIA-568.C2) and Class E (ISO 11801 ed.2). Contacts are made from thin bronze with nickel-gold finish for improved electrical performance. Modular jack has cable access to accept cables with the outer diameter up to 9 mm. Both wirings (TIA-568-A and TIA-568-B) are supported. IDC contacts can accept solid and stranded wires.

BENIFITS

Design features

- ▶ Installation shape - Keystone
- ▶ Nickel + gold contact finish, reliable high-performance electrical parameters in the contact area

Cable Termination

- ▶ No need for special tool for cable termination
- ▶ Additional optional strain relief

Standards

Meets or exceed the requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E, IEC 60603-7-5, EN 50173-1:2011-09



CU | RJ45 UNSHIELDED MODULAR JACK CAT.6

MODULAR JACK UTP, RJ-45, CAT.6, KEYSTONE

SPECIFICATION

APPLICATIONS			
1	Purpose of a product	Data Centers, LAN, SAN	
2	Product type	UNSHIELDED RJ45 MODULAR JACKS	
3	Category (ISO)	Category 6	
4	Transmission Standard (ISO/IEC)	Class E	
5	Transmission Standard (TIA)	Category 6	
6	Remote Powering	Yes	
7	PoE	IEEE 802.3.af	
8	PoE Plus	IEEE 802.3 at	
9	UPoE	Yes	
10	HDBase-T	Yes	
DESIGN			
1	Number of wires	8P/8C, 8 contacts	
2	Connector technology interface	IDC contacts	
3	Conductor cross section, solid wire	AWG 26/1 – AWG22/1 (0,409 – 0,643 mm)	
4	Conductor cross section, stranded wire	AWG 26/7 (0,483 mm)	
5	Jack housing colour (Option 1)	RJ45, modular design, colour – black	RAL 9005
6	Jack housing colour (Option 2)	RJ45, modular design, colour – white	RAL 9001
7	Stuffer cap colour	colour – white	RAL 9001
8	Polarity (wiring)	T568-A, T568-B	
9	Cable OD	≤ 9.0 mm, optional strain relief with cable tie, cable access/outlet 180°	

CU | RJ45 UNSHIELDED MODULAR JACK CAT.6

MODULAR JACK UTP, RJ-45, CAT.6, KEYSTONE

MECHANICAL PERFORMANCE		
1	Cut out	Keystone
2	Insertion and withdrawal force	≤ 20 N
3	Life	≥ 750 cycles (number of mating cycles)
4	Latch position	Bottom, when installed into modular panel
5	Panel wall thickness	1,5 ± 0,05 mm
6	Interface	RJ45 according to IEC 60603-7-5
ELECTRICAL PERFORMANCE		
1	Current carrying capacity	≤ 1 A
2	Rated voltage	≤ 50 V
3	Contact resistance	≤ 20 mOhm
4	Through resistance	≤ 200 mOhm
5	Insulation resistance	≥ 500 MOhm
6	Dielectric strength	≥ 1000 V, DC (conductor - conductor)
TEMPERATURE PERFORMANCE		
1	Temperature range	from - 40°C to + 70°C (installation) from - 40°C to + 70°C (operation) from - 40°C to + 70°C (storage)
MATERIALS		
1	Housing	PA 6.6 UL94 Vo
2	Contacts (finish)	CuSn (Ni + Au)
3	Stuffer cap	PA 6.6 UL94 Vo

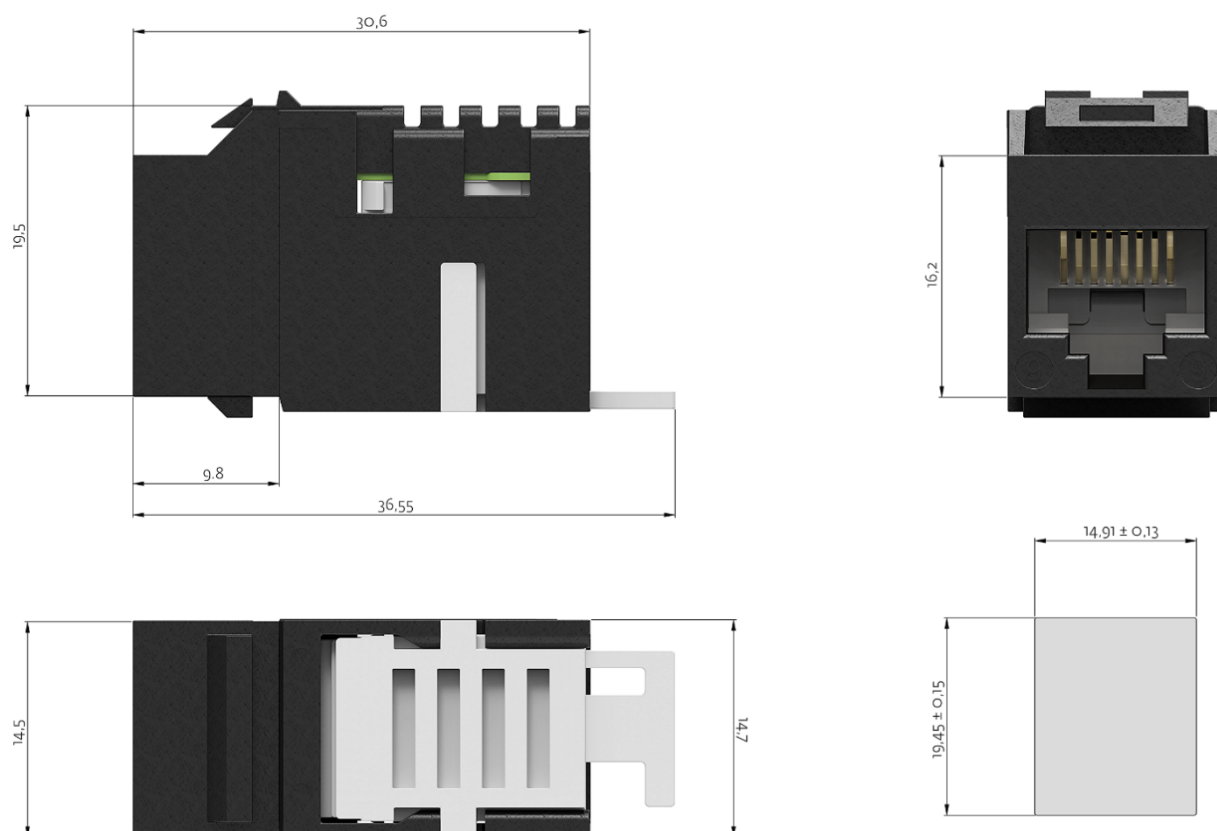
CU | RJ45 UNSHIELDED MODULAR JACK CAT.6

MODULAR JACK UTP, RJ-45, CAT.6, KEYSTONE

PART NUMBERS

RJ45 UNSHIELDED MODULAR JACK CAT.6	
77696001	Modular Jack UTP, RJ-45, Cat.6, Keystone, unshielded, white
77696002	Modular Jack UTP, RJ-45, Cat.6, Keystone, unshielded, black

DIMENSIONAL DRAWING



CU | RJ45 UNSHIELDED MODULAR JACK CAT.6

MODULAR JACK UTP, RJ-45, CAT.6, KEYSTONE



© 2019

PATCHWORK LLC.

ALL RIGHTS RESERVED. ALL TRADEMARKS IDENTIFIED BY ® OR TM ARE REGISTERED TRADEMARKS OF PATCHWORK OR OTHER RESPECTIVE OWNERS.

ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. SEE WWW.PATCHWORK.NET.RU FOR THE MOST CURRENT INFORMATION OR CONTACT AT INFO@PATCHWORK.NET.RU.

Release date: 17/12/2019 | **Version:** 01 | **Revision:** 00

ADDRESS: 220018, REPUBLIC OF BELARUS, MINSK, SHARANGOVICHA STR., 19-704B

TEL: +375 17 259 05 34 | **FAX:** +375 17 259 01 20 | **PATCHWORK.NET.RU**