

Copper Structured Cabling, Patch cord, CAT6, U/UTP

Features and benefits

- Molded strain relief snag-less boot
- 8-pin high quality RJ45 plugs with 50-micron gold plated contacts for corrosion resistance
- Cable constructed from stranded wire for flexibility and minimum crosstalk
- Compliant to ISO/IEC 11801 Ed 2.2, ANSI/TIA-568-C.2, EN 50173-1
- IEC 61156-6, EN 50288-6-2
- IEC 60332-1-2, IEC 60754-2, IEC 61034
- Reliable performance
- Super-standard performance margin



Description

Opterna UTP Patch cord conforms to ANSI/TIA-568-C.2, ISO/IEC 11801:2011 edition 2.2 and CENELEC EN 50173 (2011) for Category 6/Class E applications.

The products have been tested up to 250MHz and are designed for high speed protocols such as Gigabit Ethernet (1000Mbps) applications.

The Patch cords are constructed of a U/UTP stranded wire cable and comprises two modular plugs at both ends of the cables. The RJ45 plugs are protected with molded snag-less boots that prevents the latch on the RJ45 plugs from getting damaged during installation.

Applications

- Cross connect, Patch Panel and Work Area
- 4/16 Mbps Token Ring (IEEE 802.5)
- 10/100/1000 BASE-T (IEEE 802.3)
- 155 Mbps ATM
- 100 Mbps TP-PMD
- Analogue Voice, ISDN, ADSL

Standards

- ANSI/TIA-568-C.2
- ISO/IEC 11801:2011 (Ed 2.2) Class E
- CENELEC EN 50173-1:2011
- ANSI/TIA-1096-A (formerly FCC Part 68)
- IEC 60603-7-4

Technical data

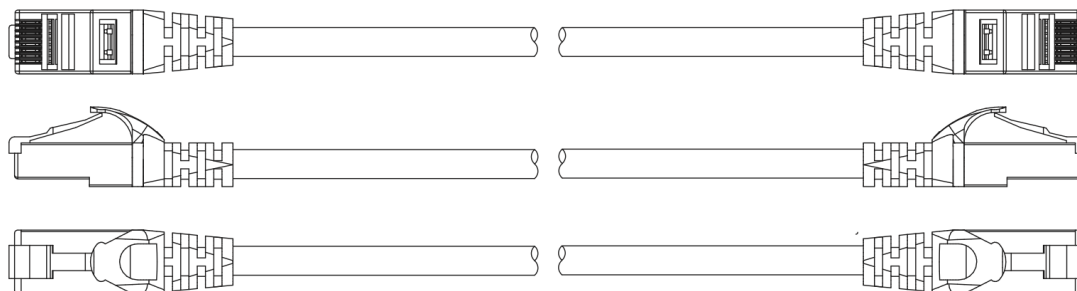
Mechanical data	Value
Dimensions (W x D x H)	See technical drawing
Cable construction	Category 6 UTP

Number of pairs	4
Colors of twisted pairs	Blue-white/blue, Orange-white/orange, Green-white/green, Brown-white/brown
Material	Conductor material - Stranded copper conductor Conductor insulation - HDPE Contact - Phosphor Bronze contact area is plated with 50micro-inches of Gold Over 100 micro-inches of Nickel Molded boot - Fire retardant PVC/LSZH compounds Cable jacket - PVC/LSZH Cable Diameter - <6.0mm
Conductor diameter	24 AWG, 7 stranded copper wire conductors
Plugs	RJ45 8P8C
Fire rating	CMG
Total contact force	800 grams
Retention	50N
Insertion/extraction	750 cycles minimum
Insulation resistance	500MΩmin. @ 100V d.c
Dielectric withstanding voltage	1000V d.c
Contact resistance	20mΩ Max.

Environmental data

Temperature range	Value
Operation	-10° C to +60° C
Storage	- 40° C to +70° C
Relative humidity (operational)	Maximum non-condensing 93%

Technical drawing



Ordering information

Description	Part code
Patch cord UTP, category 6, standard plug, PVC	SCS-PC-C6-UTP-yyM-PVC-xx
Patch cord UTP, category 6, standard plug, LSZH	SCS-PC-C6-UTP-yyM-LSZH-xx

yy – length: 0.5m, 1m, 1.5m, 2m, 3m, 5m, 10m

xx – color: Black (BK), Blue (BL), Green (GN), Gray (GY), Orange (OR), Red (RD), White (WH), Yellow (YL)