

Copper Structured Cabling, Patch cord, CAT6A, F/UTP with RFiD transponder

Features and benefits

- Molded strain relief snag-less boot with integrated RFiD transponder
- 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 50288-10-2
- IEC 60332-1-2, IEC 60754-2, IEC 61034
- Reliable performance
- Super-standard performance margin



Description

Opterna Category 6A FTP Patch cords conform to ANSI/TIA/EIA-568-C.2, ISO/IEC 11801:2011 edition 2.2 and CENELEC EN 50173 (2011) for Category 6A/Class EA applications.

The products have been tested up to 500MHz and are designed for high speed protocols such as 10 Gigabit Ethernet (10G) applications. The Patch cords are constructed of a F/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.

The snag-less molded stain relief boot includes a slot to accommodate the RFID transponder. The RFID transponder installed inside the patch cords enable the cable system to be monitored for security and port mapping. The RFID patch cords are to be used along with other Opterna Automated Monitoring System.

Applications

- Cross connect, Patch Panel and Work Area
- 4/16 Mbps Token Ring (IEEE 802.5)
- 10/100/1000 BASE-T, 10G (IEEE 802.3)
- 155/622 Mbps ATM
- 100 Mbps TP-PMD
- Analogue Voice, ISDN, ADSL

Standards

- ANSI/TIA-568-C.2
- ISO/IEC 11801:2011 (Ed 2.2) Class EA
- CENELEC EN 50173-1:2011
- ANSI/TIA-1096-A (formerly FCC Part 68)
- IEC 60603-7-51

Technical data

Mechanical data	Value
Dimensions (W x D x H)	See technical drawing
Cable construction	Category 6A F/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 wire Conductor insulation - HDPE Contact - Phosphor Bronze contact area is plated with 50micro-inches of Gold Over 100 micro-inches of Nickel Shield - Brass Alloy plated with 100-micron inch nickel Molded boot - Fire retardant PVC/LSZH compounds Cable jacket - PVC/LSZH Cable Diameter - <6.35mm
Conductor diameter	26 AWG, 7 stranded copper conductors
Plugs	RJ45 8P8C 94V0 Flame retardant PC
Fire resistance	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.

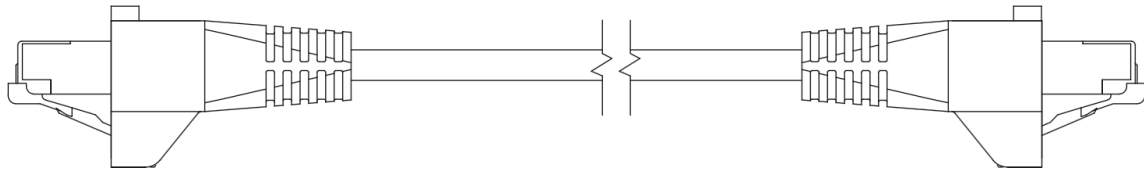
RFID Transponder

Electrical characteristics	Value
Dimensions	2.6mm x 3.0mm x 10.2mm (± 0.2mm each dimension)
Material	PC ABS
Color	Black
Type	13.56 MHz, read/write, factory programmed with a unique ID
Features	Optional programming with additional information such as type, length or colour of the cable.

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 FTP, category 6A, shielded plug with RFID transponder, PVC	SCS-RFPC-C6A-FTP-yyM-PVC-xx
Patch cord FTP, category 6A, shielded plug with RFID transponder, LSZH	SCS-RFPC-C6A-FTP-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)