

RoHS COMPLIANT

Overview

Bandwidth: 500MHz
OD: 6.0mm
Conductor: 26AWG
Approvals: RoHS
Connector: RJ45 Cat.6A male to female

Physical Characteristics

- Cable Type – CAT6A S/FTP
- Connector Type(s) – RJ45
- Wiring Scheme – T568B
- Temperature Rating
 - Installation: 0°C~50°C
 - Operation: -20°C~70°C
- Humidity – 40~60%
- Voltage Rating – 30V

Conductor (Qty. 4 twisted pair)

- Conductor Type – 26AWG(7/0.16mm), Stranded BC
- Insulation – FoPE
- Diameter – 1.04±0.05mm
- Pair Identification:
 - Pair1=Orange, Orange-White
 - Pair2=Blue, Blue-White
 - Pair3=Green, Green-White
 - Pair4=Brown, Brown-White

Connector Type (Qty. 2)

Connector-1:
Type: Shielded 8P8C (RJ45)
Gender-Male
Connector Material – PC
Contact Material- Copper Alloy, Gold Plating – 50um

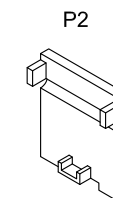
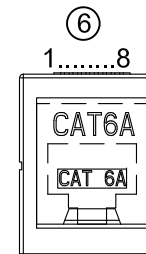
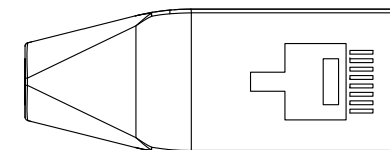
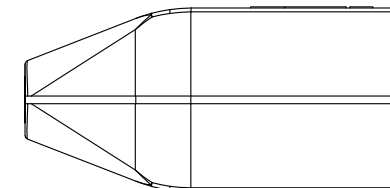
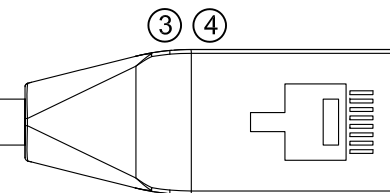
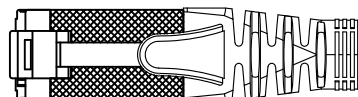
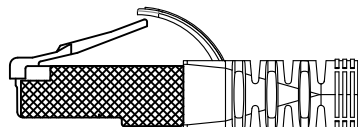
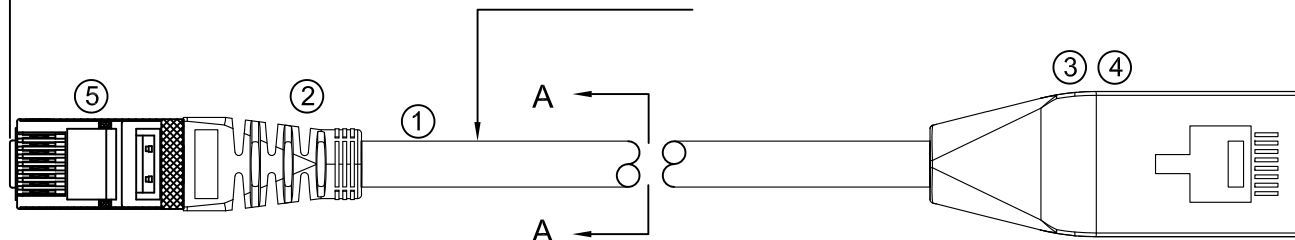
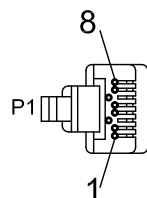
Connector-2:
Type: Shielded 8P8C (RJ45)
Gender-Female
Connector Material – Zinc Alloy
Contact Material- Copper Alloy, Gold Plating – 50um

Overall Cable

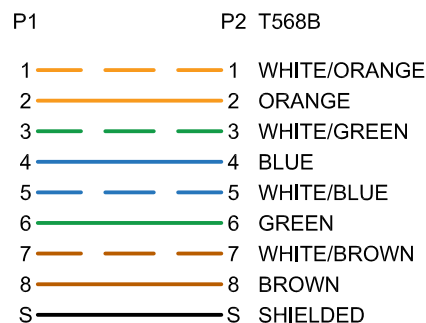
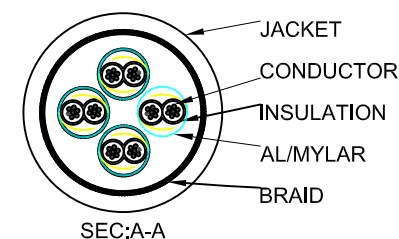
- Jacket – LSZH
- Minimum Average Thickness – 0.60mm
- Outer Diameter – $6.0 \pm 0.20\text{mm}$

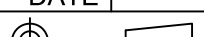

Electrical Characteristics

- Conductor DC Resistance – 15.2Ω/100m (maximum)
- Impedance – 100Ω
- Capacitance – 5600pF/100m
- Propagation Delay – 545ns/100m (maximum)
- Delay Skew – 45ns/100m (maximum)
- Maximum POE rating : IEEE 802.at(PoE+)
- Minimum bending radius:4D
- Test Limit: DSX 8000 TIA CAT 6A Modular Plug Terminated Link Test (Randomly test, not 100% test)

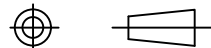



Dust Cap



• Test Limit: DSX 8000 TIA CAT 6A Modular Plug Terminated Link Test (Randomly test, not 100% test)			ITEM NO:		MPTL (Modular Plug Terminated Link) Cat.6A S/FTP Cable Adapter		DRAWER DATE		FW 20210616	
6	RJ45 Female Connector: 8P8C 50U' GOLD PLATED FEMALE.				TITLE		CHECKED DATE		ACE 20210616	
5	RJ45 Male Connector: 8P8C 50U' GOLD PLATED PLUG				CUSTOMER		APPROVED DATE			
4	INNER MODEL: LD-PE TRANSPARENT MOLDED BOOT.				MATERIAL		SCALE			
3	MOLDED: PVC MOLDED BOOT.				REV.		B	UNIT	MM	
2	MOLDED: ASSEMBLE BOOT.				DRAWING NO:		10616140			
1	CABLE: CAT6A S/FTP[26AWG(7/0.16±0.008mm)+AL/MYLAR]*4+BRAID(16*5/0.12AL-MG) OD:Ø6.0±0.2MM LSZH JACKET.				ACAD FILE					
NO.	SPECIFICATION			Q'TY						
BOM LIST										

Length	Blue<RAL5015>	Tolerance
1M	FB1501	±30mm
2M	FB1502	±30mm
3M	FB1503	±30mm
5M	FB1505	±60mm
7M	FB1507	±60mm
10M	FB1510	±80mm

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MATERIAL		SCALE			
REV.	A	UNIT	MM		
DRAWING NO:	10616140				
ACAD FILE	E:\				