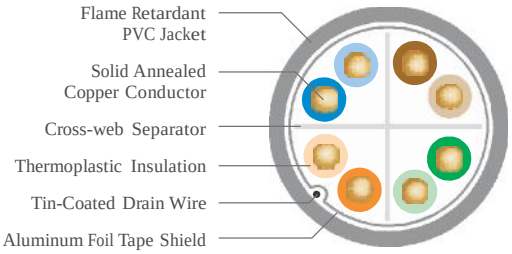
Category 6A ScTP (f/UTP)

CMR/CMP



Product Description

Category 6A ScTP (F/UTP) cable, swept out to 650 MHz, meets or exceeds ANSI/TIA-568-C.2 for CAT 6A cables, a requirement for 10GBASE-T applications. The cable is UL Verified CAT 6A and has a typical Alien Crosstalk margin of 18 dB.

The cable consists of four (4) balanced 23 AWG copper pairs around a flame retardant cross-web. The core is wrapped with a Mylar backed aluminum foil. A drain wire is applied longitudinally against the tape. The cable is then protected with a flexible riser or plenum rated PVC jacket. Standard features include ColorTip™ circuit identification system and QuickCount® length marking system measured in both feet and meters.

Applications

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) – IEEE 802.3af
- PoE+ – IEEE 802.3at Type 1 and 2
- ATM and token ring
- Backward compatible to legacy protocols and applications

Specifications

Configuration	Copper pairs surrounded by aluminum PET foil with an outer drain wire and jacket
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Thermoplastic CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Shield	Aluminum/PET
Drain Wire	Tinned copper
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	CMR: 66 CMP: 71
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 6A UL, c(UL) Listed CMR UL, c(UL) Listed CMP

Features	Benefits
• Overall shielded core	• Protects against EMI/RFI • 18 dB typical margin Alien Crosstalk performance
• Exceeds ANSI/TIA-568-C.2 specification for CAT 6A cable performance	• Meets all 10GBASE-T application requirements • Exceeds requirements for Alien Crosstalk performance
• UL Verified CAT 6A	• Assures CAT 6A performance by a nationally recognized test lab
• Riser and plenum rated designs	• Meets all fire safety requirements for either backbone or horizontal applications
• CableID® alpha numeric code printed every 2 feet	• Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
• QuickCount marking system in feet and meters	• Provides remaining length of cable on reel
• ColorTip circuit identification system	• Easily identifiable conductor mates even in low-light environments

Part Numbers and Physical Characteristics

Listing	Part Number[1]	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	16F-272-xA1	0.29 (7.3)	40 (59)	1,000' Plywood reel	12
CMR	16F-273-xA1	0.29 (7.3)	40 (59)	2,500' Plywood reel	12
CMP	16F-272-xB1	0.30 (7.7)	46 (69)	1,000' Plywood reel	12
CMP	16F-273-xB1	0.30 (7.7)	46 (69)	2,500' Plywood reel	12

Jacket Colors

[1]Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Orange = D