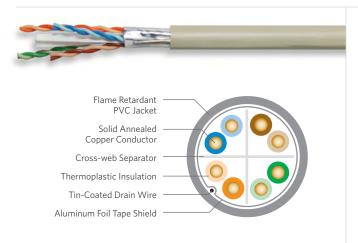
Category 6+ F/UTP (ScTP)





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 with 10% overlap					
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 ANSI/TIA/EIA-TSB-155 Article 800, NEC (NFPA 70) HDBaseT Class A and B					
NRTL Programs	UL Verified CAT 6; UL, c(UL) Listed CMR; UL, c(UL) Listed CMP; HDBaseT Certified					
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant					

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Category 6+ F/UTP (ScTP) cable, with guaranteed performance out to 500 MHz, exceeds ANSI/TIA-568-C.2 for CAT 6 cables. The cable is UL Verified CAT 6 and has a typical Alien Crosstalk margin of 18 dB. The cable can be used for 10GBASE-T applications for up to 55 meters per ANSI/TIA/EIA-TSB-155.

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. Category 6+ F/UTP (ScTP) is certified for HD A/V applications using HDBaseT Class A and B protocol.

APPLICATIONS

- 10GBASE-T (up to 55 meters), 1000BASE-T, 100BASE-T and legacy Ethernet applications
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- HDBaseT Class A and B

BENEFITS

- UL Certified Environmental Product Declaration (EPD)
- Contributes toward 1 LEED point under the Material and Resources credit (MRc)
- Health Product Declaration™ (HPD™)
- Contributes toward 1 LEED point under the MRc
- Multi-Attribute Certification by GreenCircle Certified, LLC
- Offers an overview of the sustainability of a product, its packaging and manufacturing
- Overall shielded core
- Protects against EMI/RFI
- 18 dB typical margin Alien Crosstalk performance
- Guaranteed performance to 500 MHz
- Assures ample headroom for existing and future high bandwidth applications
- Exceeds ANSI/TIA-568-C.2 specification for CAT 6 cable performance
- Allows for 10GBASE-T applications up to 55 meters
- 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
- HDBaseT Class A and B certified
 Ideal for any A/V applications up to 100m channel

ART NUMBERS AND PHYSICAL CHARACTERISTICS									
Listing	Part Number¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet				
CMR	6T-246-xA	0.29 (7.3)	32 (48)	1,000' BrakeBox®	12				
CMR	6T-272-xA	0.29 (7.3)	32 (48)	1,000' Plywood reel	12				
CMP	6T-246-xB	0.28 (7.1)	37 (55)	1,000' BrakeBox	12				
CMP	6T-272-xB	0.28 (7.1)	37 (55)	1,000' 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

Category 6+ F/UTP (ScTP) CMR/CMP

ELECTRICAL SPECIFICATIONS Insertion Loss @ 20°C Maximum NEXT Minimum ACR Minimum PSNEXT Minimum dB/100 m dB/100 m dB/100 m dB/100 m TIA-568-C.2 **Superior Essex** TIA-568-C.2 **Superior Essex** TIA-568-C.2 Superior Essex TIA-568-C.2 Superior Essex Frequency MHz Specified Guaranteed Typical Specified Guaranteed Typical Calculated Guaranteed Typical Specified Guaranteed Typical 1 2.0 2.0 1.7 74 3 743 82 9 72.3 723 82.2 72.3 723 81 9 4 3.8 3.8 3.4 65.3 65.3 77.6 61.5 61.5 74.2 63.3 63.3 75.0 10 6.0 6.0 5.4 59.3 59.3 70.1 53.3 53.3 64.7 57.3 57.3 68.3 16 7.6 7.6 6.9 56.2 56.2 69.6 48.6 48.6 62.5 54.2 54.2 67.1 20 8.5 8.5 7.8 54.8 54.8 68.7 46.3 46.3 60.7 52.8 52.8 65.7 25 9.5 9.5 8.8 53.3 53.3 66.1 43.8 43.8 58.7 51.3 51.3 64.7 31.25 10.7 10.7 9.8 51.9 51.9 67.8 41.2 41.2 56.2 49.9 49.9 63.4 154 154 47 4 47 4 64 0 32.0 47.8 45 4 59 1 62.5 14 2 32.0 45 4 100 19.8 19.8 18.2 44.3 44.3 58.0 24.5 24.5 38.7 42.3 42.3 55.0 200 29.0 29.0 26.6 39.8 39.8 53.8 10.8 10.8 26.5 37.8 37.8 50.6 32.8 5.5 5.5 250 32.8 30.1 38.3 38.3 51.0 21.1 36.3 36.3 48.7 300 35.5 33.4 36.2 53.8 0.6 19.4 34.8 49.1 400 42.1 39.5 49.1 8.0 32.5 34.4 44.5 500 48.0 45.1 32.9 42.9 31.0 41.7

PSACR Minimum dB/100 m			Return Loss Minimum dB/100 m			ELFEXT (ACRF) Minimum dB/100 m			PSELFEXT (PSACRF) Minimum dB/100 m			
Frequency TIA-568-C.2 S		Superior I	Superior Essex		Superior I	Essex	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex	
MHz	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical
1	70.3	70.3	80.2	20.0	20.0	26.0	67.8	67.8	78.7	64.8	64.8	76.6
4	59.5	59.5	71.6	23.0	23.0	31.1	55.8	55.8	65.9	52.8	52.8	64.2
10	51.3	51.3	62.9	25.0	25.0	36.3	47.8	47.8	58.1	44.8	44.8	56.4
16	46.6	46.6	60.2	25.0	25.0	37.7	43.7	43.7	54.0	40.7	40.7	52.2
20	44.3	44.3	58.1	25.0	25.0	36.0	41.8	41.8	52.1	38.8	38.8	50.3
25	41.8	41.8	56.1	24.3	24.3	38.6	39.8	39.8	50.2	36.8	36.8	48.4
31.25	39.2	39.2	53.6	23.6	23.6	38.3	37.9	37.9	48.1	34.9	34.9	46.4
62.5	30.0	30.0	45.0	21.5	21.5	32.8	31.9	31.9	41.4	28.9	28.9	40.3
100	22.5	22.5	37.0	20.1	20.1	30.7	27.8	27.8	36.8	24.8	24.8	35.2
200	8.8	8.8	24.0	18.0	18.0	27.6	21.8	21.8	32.6	18.8	18.8	31.8
250	3.5	3.5	18.8	17.3	17.3	28.5	19.8	19.8	32.5	16.8	16.8	31.3
300			15.8		15.9	28.6		17.5	30.8		14.5	28.9
400			5.0		14.9	24.9		14.9	24.7		11.9	23.5
500					13.7	25.0		12.5	22.5		9.5	21.5

SUSTAINABILITY LEADERSHIP













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