Category 6+ F/UTP (ScTP)



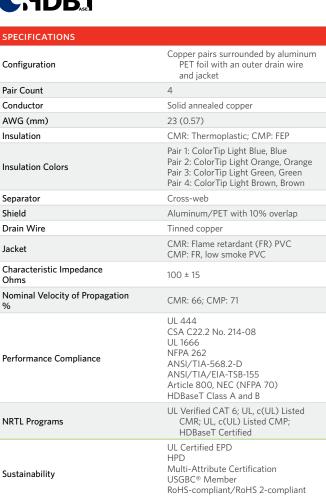
Solid Annealed Copper Conductor

Cross-Web Separator

Tin-Coated Drain Wire

Aluminum Foil Tape Shield





PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Category 6+ F/UTP (ScTP) cable, with guaranteed performance out to 500 MHz, exceeds ANSI/TIA-568.2-D 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 802.3bt Type 1 to 4
- ATM and token ring
- HDBaseT Class A and B

FEATURES BENEFITS

- UL Certified Environmental Product Declaration (EPD)
 - point under the Material and Resources credit (MRc)
- Health Product Declaration™ (HPD™)
- Contributes toward 1 LEED point under the MRc

Contributes toward 1 LEED

- 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
- Guaranteed performance to 500 MHz
- Crosstalk performance Assures ample headroom for existing and future high
- Exceeds ANSI/TIA-568.2-D specification for CAT 6 cable performance
- bandwidth applications 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

PART 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-vB	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

REACH-compliant

ELECTRICAL SPECIFICATIONS

	Insertion Loss @ 20°C Maximum dB/100 m			NEXT Minimum dB/100 m			ACR Minimum dB/100 m			PSNEXT Minimum dB/100 m		
Frequency	TIA-568.2-D Superior Essex		Essex	TIA-568.2-D Superior Essex		TIA-568.2-D Superior Essex			TIA-568.2-D Superior Essex			
MHz	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical
1	2.0	2.0	1.7	74.3	74.3	82.9	72.3	72.3	82.2	72.3	72.3	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
62.5	15.4	15.4	14.2	47.4	47.4	64.0	32.0	32.0	47.8	45.4	45.4	59.1
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
250	32.8	32.8	30.1	38.3	38.3	51.0	5.5	5.5	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		34.4	49.1			8.0		32.5	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-568.2-D	8.2-D Superior Essex		TIA-568.2-D Superior Essex		TIA-568.2-D Superior Essex		TIA-568.2-D Superior Essex		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













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