



PRODUCT DESCRIPTION

Hyperline brings Category 6A Riser UTP performance to a new level. This cable meets the internal and alien cross-talk performance requirements of ANSI/TIA-568-C.2 as tested in a 6 around 1 configuration. With swept performance up to 650 MHz and independently verified and monitored by UL, 6A cable demonstrates superior capability for 10 Gigabit Ethernet (10GbE) and all other bandwidth intensive and legacy application when compared to Typical values; meets or surpasses the specifications in every category. The cable construction is comprised of 8 x 23-gauge solid bare copper cores, which are then insulated with high density polyethylene insulation and organized into four color coded twisted pair sets of conductors. Along with a CMR rated jacket and a rip cord to facilitate easy jacket removal.

APPLICATIONS

- Structured cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3an 10GBASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

PHYSICAL & ELECTRICAL CHARACTERISTICS

at 20 °C	
Temperature & voltage rating	75°C / 300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω/100m
Resistance unbalance	≤ 4%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ•Km
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

USAGE & ENVIRONMENTAL CONDITION

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Minimum bending radius	≥ 4 times of overall diameter	
Maximum pulling tension	≤ 110 N	

PERFORMANCE COMPLIANCE

- UL 444
- CSA 22.2 NO.214
- EU Directive 2011/65/EC (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

FEATURES

- Award winning trademarked packaging
- High performance rate of transmission
- High quality of safety property
- Sweep frequency up to 650 MHz (Enhanced) verified to 250 MHz
- Meets/exceeds ANSI/TIA-568-C.2 specification
- Meets ISO/IEC 11801 (Edition2.2)
- Meets IEC 61156-5 (Edition2.0)
- Flame Test –UL 1666 (CMR)
- Wide-mouth and Reelex carton
- Quick Count marking system in feet
- Lower cross talk

Available in ten different jacket colors



ELECTRICAL PERFORMANCE COMPARISON (At 20 °C)

Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT	
	Typical	Hyperline	Typical	Hyperline	Typical	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	2.0	2.0	78.3	78.3	77.3	76.3
4	3.7	3.8	69.3	69.2	68.3	67.2
8	5.1	5.3	64.8	64.7	63.8	62.7
10	5.7	5.9	63.3	63.3	62.3	61.3
16	7.3	7.4	60.2	60.2	59.2	58.2
20	8.1	8.3	58.8	58.7	57.8	56.7
25	9.1	9.3	57.3	57.3	56.3	55.3
31.25	10.2	10.5	55.9	55.8	54.9	53.8
62.5	14.4	14.9	51.4	51.3	50.4	49.3
100	18.4	19.1	48.3	48.3	47.3	46.3
200	26.5	27.5	43.8	43.7	42.8	41.7
250	29.8	31.0	42.3	42.3	41.3	40.3
300	32.9	34.2	41.1	41.1	40.1	39.1
400	38.3	40.0	39.3	39.2	38.3	37.2
500	43.0	45.2	37.8	37.8	36.8	35.8
600	47.5	50.0	36.4	36.6	35.6	34.6
650	49.7	52.3	35.9	36.1	35.1	34.1

Frequency (MHz)	PS.ACR		ACRF		PS.ACRF		RETURN LOSS	
	Typical	Hyperline	Typical	Hyperline	Typical	Hyperline	Typical	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	76.3	74.2	73.8	71.8	70.8	68.8	22.0	20.0
4	65.6	63.4	61.8	59.7	58.8	56.7	25.0	23.0
8	59.6	57.4	55.7	53.7	52.7	50.7	26.5	24.5
10	57.6	55.3	53.8	51.8	50.8	48.8	27.0	25.0
16	53.0	50.7	49.7	47.7	46.7	44.7	27.0	25.0
20	51.2	48.4	47.8	45.7	44.8	42.7	27.0	25.0
25	49.0	45.9	45.8	43.8	42.8	40.8	26.3	24.3
31.25	46.7	43.3	43.9	41.9	40.9	38.9	25.6	23.6
62.5	38.4	34.3	37.9	35.8	34.9	32.8	23.5	21.5
100	31.7	27.1	33.8	31.8	30.8	28.8	22.1	20.1
200	19.5	14.2	27.8	25.7	24.8	22.7	20.0	18.0
250	15.1	9.2	25.8	23.8	22.8	20.8	19.3	17.3
300	10.8	4.8	24.3	22.2	21.3	19.2	18.8	16.7
400	3.6	N.A.	21.8	19.7	18.8	16.7	17.9	15.8
500	N.A.	N.A.	19.8	17.8	16.8	14.8	17.2	15.2
600	N.A.	N.A.	18.2	16.2	15.2	13.2	16.7	14.6
650	N.A.	N.A.	17.5	15.5	14.5	12.5	16.4	14.4

Values above 500 MHz are for information only



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Conductor	Material	23AWG solid bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white	1.19 ± 0.02 mm
		Orange & white	1.10 ± 0.02 mm
		Green & white	1.17 ± 0.02 mm
		Brown & white	1.08 ± 0.02 mm
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
Assembly	Description	Left hand direction	
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	8.3 ± 0.2 mm	
	Thickness	1.10 ± 0.10 mm	
	Color	Per Hyperline standard	

Rip cord	Material	Polyester multi-yarn
Nominal Velocity of Propagation	(NVP) 69%	
NRTL Program	c(UL)us listed CMR ETL Verified CSA Verified	
Marking	Hyperline UTP4-C6A-SOLID-CMR-XX E303448-F U/UTP 4PR 23AWG C(UL)US CMR---CSA 269549 CMR UTP 4P 23AWG 75°C - ETL VERIFIED TO ANSI/TIA-568-C.2 CAT 6A 500MHz PO# XXXXXX WW/YY XXXXFT-A	

ORDERING

Part Number	Product Description
UTP4-C6A-SOLID-CMR-WH-305	Category 6A Riser, UTP, 23 AWG, White 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-BL-305	Category 6A Riser, UTP, 23 AWG, Blue 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-GY-305	Category 6A Riser, UTP, 23 AWG, Grey 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-OR-305	Category 6A Riser, UTP, 23 AWG, Orange 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-GN-305	Category 6A Riser, UTP, 23 AWG, Green 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-VT-305	Category 6A Riser, UTP, 23 AWG, Violet 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-BK-305	Category 6A Riser, UTP, 23 AWG, Black 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-YL-305	Category 6A Riser, UTP, 23 AWG, Yellow 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-RD-305	Category 6A Riser, UTP, 23 AWG, Red 305 Meter/1000 FT Pull Box
UTP4-C6A-SOLID-CMR-PK-305	Category 6A Riser, UTP, 23 AWG, Pink 305 Meter/1000 FT Pull Box



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