

PART NO. 6ASHDCMRRx

DESCRIPTION

- 23 AWG 4 Pair F/UTP 10G Category 6A cable tested to ANSI/TIA 568-C.2 for 10Gbps @500Mhz premium grade, high performance for top level network cabling for maximum headroom and bandwidth. Available in Wood Reel for easier installation.

FEATURES AND BENEFITS

- Category 6A performs at improved specifications, particularly in the area of alien cross-talk. Category 6A make use of their higher standards by allowing full 10GBASE-T transmission speeds of up to 10Gbps, at 500MHz of signal bandwidth, over 100 meters (330 ft)
- Improved cable temperature rating (75°C Plenum) for greater protection against increased operating temperatures and for high-wattage applications
- The internal separator optimizes each pair for superior electrical performance and maintains flexibility. This unique spline stabilizes each pair to create a smaller, round cable profile

APPLICATIONS

- IEEE 802.3 10G Base-T, 1000Base-T, 100Base-TX, 10Base-T, PoE, PoE+
- ANSI/TIA 854: 1000Base-TX
- CDDI, Token Ring, ATM
- Digital Video
- Broadband and Baseband Analog Video

STANDARD COMPLIANCES

- ANSI/TIA 568-C.2
- ANSI/TIA 862 (Building Automation)
- ISO/IEC 11801 Ed. 2.0 (Class EI)
- ICEA 8-102-700 (Category 6 or 5E)
- REACH Compliant
- CPR Compliant (Fully Comply to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

Toll Free: (866) 945-5051
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Category	FTP CAT6A			
Reference Standard	UL444, ISO/IEC11801, TIA-568-C.2			
Conductor	Material	SOLID-Bare Copper		
	Nom.O.D.(mm)	0.565	Up +0.005 Down -0.005	
Insulation		Material	HDPE	
	Diameter	1.12±0.05 mm		
Screening Material	Mylar + AL/Mylar			
Sheath	Thickness	0.60±0.05mm		
	External O.D.	7.4±0.4mm		
	Surface	Clean, Frap, Satiation		
	Material	PVC(complies RoHS)		
Surface Printing	Color	TBD		
	Letter height	3.0±0.3mm		
	Color	Black		
Core Color	Print error & Space	≤±0.5%, 1m		
	1 White-Blue/Blue	2 White-Orange/Orange		
	3 White-Green/ Green	4 White-Brown/brown		
Packing	Drum			
Wooden Tray Dimension	According to the requires			
Packing length	(305±1.5)m			
Rip-cord	Yes	Drain wire	TC	
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥13.5	
		Elongation(%)	≥150	
	Aging period (°Cxhrs)		100°Cx24hx7d	
	After Aging	Tensil Strength (Mpa)	≥12.5	
		Elongation(%)	≥125	
	Cold bend (-20±2°Cx4h) 8xCable O.D.		No visible cracks	
Electrical Characteris- tics(20°C)	Impedance(Ω)	1.0-250.0MHZ	100±15	
		250.0- 500.0MHZ	100±22	
	1.0-500.0MHZ	Delay Skew (ns/100m) ≤45		
	Unbalanced-to-ground capacitance (pf/100m)max			330
	DC Resistance (Ω/100m) max			9.38
DC Conductor Resistance Unbalance (%) max			5.0	
Acceptance criterion:FLUKE Permanent Link test ≤90m, pass				

ELECTRICAL PERFORMANCE

ACRF - Attenuation to Crosstalk Ratio - Far End (dB/100m)

NEXT - Near End Crosstalk (dB/100m)

ACR - Attenuation to Crosstalk Ratio (dB/100m)

PSNEXT - Power Sum Near End Crosstalk (dB/100m)

ELFEXT - Equal Level Far End Crosstalk (dB/100m)

PSELFEXT - Power Sum Equal Level Far End Crosstalk (dB/100m)

RL - Return Loss (dB)

TCL - Transverse Conversion Loss (dB/100m)

ATT - Attenuation (dB/100m)

FREQUENCY (MHz)	ATT (≥dB)	RL (≥dB)	Next (≥dB)	PSNEXT (≥dB)	PHASE D E L A Y ≤ns	ELFEXT (≥dB)	PSELFEXT (≥dB)
1		20.0	75.3	72.3	570.0	68.0	65.0
4	3.8	23.0	66.3	63.3	552.0	56.0	53.0
8	5.3	24.5	61.8	58.8	546.7	49.9	46.9
10	5.9	25.0	60.3	57.3	545.4	48.0	45.0
16	7.5	25.0	57.2	54.2	543.0	43.9	40.9
20	8.4	25.0	55.8	52.8	542.1	42.0	39.0
25	9.4	24.3	54.3	51.3	541.2	40.0	37.0
31.25	10.5	23.6	52.9	49.9	540.4	38.1	35.1
62.5	15.0	21.5	48.4	45.4	538.6	32.1	29.1
100	19.1	20.1	45.3	42.3	537.6	28.0	25.0
200	27.6	18.0	40.8	37.8	536.5	22.0	19.0
250	31.1	17.3	39.3	36.3	536.3	20.0	17.0
300	34.3	16.8	38.1	35.1	536.1	18.5	15.5
500	45.3	15.2	34.8	31.8	535.6	14.0	11.0

Max. Recommended pulling tension: 120N
Min Bend radius/minor axis: 35mm

Electrical performance with frequency over 500MHz is only for reference

JACKETS ABBREVIATION

Black	B	Last alphabetical character of each part number indicates the color code that the Jacket is available in. For example Part # 6CMR244Bx ("x" indicates all the colors to the left are available for this product.
White	W	
Gray	G	
Blue	O	
Yellow	Y	
Green	V	
Orange	OR	
Purple	P	
Red	R	
Pink	PI	

AVAILABLE JACKET COLORS		
STANDARD	BLUE	WHITE
SPECIAL	Per Customer Request*	
INSULATION COLORS		
PAIR 1	BLUE	WHITE
PAIR 2	ORANGE	WHITE
PAIR 3	GREEN	WHITE
PAIR 4	BROWN	WHITE

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All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%. It is the sole responsibility of the user to have the most current specification. Specifications are subject to change without notice