

DESCRIPTION

23 AWG 4 Pair U/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 crosstalk. 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 Riser) for greater protection against increased operating temperatures and for high-wattage applications
- The internal separator optimizes each pair for superior electrical perfomance 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

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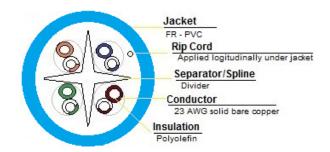






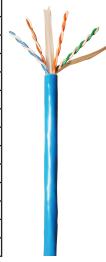
CAT6A 23AWG/4PAIR 10G CMR U/UTP

PART NO. 6ACMR234Rx



PHYSICAL PROPERTIES

Conductor		Material	Solid Bare Copper		
		Nominal Outside Diameter (mm)	0.57		
Insulation		Material	HDPE		
		Diameter (± 0.05mm)	1.03		
Filler			Low Smoke		
Construction			CMR/Non-Plenum		
	Mat	terial	FR - PVC		
Jacket	Ave	erageThickness (mm)	0.8		
Jacket	Min	imum Point Thickness (mm)	0.7		
	Out	side Diameter (±0.2mm)	6.9		
Rip Cord:			Yes		
Drain Wire:			No		
Daakina		Length	1000ft ± 4ft		
Packing		Weight	42 lbs/Reel		
Voltage Rating (Max)			DC 300V		



ELECTRICAL CHARACTERISTICS

1.0 - 250	0.0MHz characteristic impedance (ohms)	100Ω±15Ω		
1.0 - 250	0.0MHz Delay Skew (ns/100m)	≤45		
Pair-to-0	Ground Capacitance Unbalance (Pf/100m)	≤330		
Max. Co	onductor DC Resistance 20 (ohms/km)	9.38Ω/100m		
Resistar	nce Unbalance (%)	≤5		
Max Mu	tual Capacitance	5.6nF/100m		
Max DC	Loop Resistance	19.2Ω/100m		
Min DC	Insulation Resistance	150MΩ/Km		
Max Pro	pagation Delay Skew	2ns/ft,40ns/100m		
Before	Tensile Strength (Mpa)	≥10.0		
Aging	Elongation (%)	≥100		
After	Tensile Strength (Mpa)	≥75		
Aging	Elongation (%)	≥50		
Aging C	ondition (xhrs)	100°C x 24h x 7d		
Cold Be	nd (No Visible Crack)	-20±2°C		
Tempera	ature Range	-20°C ~ +75°C		
Velocity	of Propagation (%) NVP	70%		



1000' Wood Reel Weight: 42 lbs.

AVAILABLE CATEGORY 6 (PART NUMBERS)					
PVC	Plenum	Shielded	Shielded	Direct	Shielded
	Pieliulii		Plenum	Burial	Direct Burial
6ACMR234Rx	6ACMP234Rx	6ASHDCMRRx	6ASHDCMPRx	6AOUTG234RB	6AOUTGSHDRB



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PART NO. 6ACMR234Rx

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 Leverl Far End Crosstalk (dB/100m)

RL - Return Loss (dB)

TCL - Transverse Conversion Loss (dB/100m)

ATT - Attenuation (dB/100m)

FREQUENCY	ATT	RL	ACR	Next	PSNEXT	TCL	PHASE	ELFEXT	PSELFEXT
(MHz)	(dB/100m)	(dB)	(dB)	(dB)	(dB)	(dB/100m)	DELAY	(dB/100m)	dB/100m)
1	2.0	20.0	72.3	74.3	72.3	40.0	570.0	67.8	64.8
4	3.7	23.0	61.5	65.3	63.3	40.0	552.0	55.8	52.8
8	5.2	24.5	55.5	60.8	58.8	40.0	546.7	49.7	46.7
10	5.9	25.0	53.4	59.3	57.3	40.0	545.4	47.8	44.8
16	7.4	25.0	48.8	56.2	54.2	38.0	543.0	43.7	40.7
20	8.3	25.0	46.5	54.8	52.8	37.0	542.1	41.8	38.8
25	9.3	24.3	44.0	53.3	51.3	36.0	541.2	39.8	36.8
31.25	10.4	23.6	41.5	51.9	49.9	35.1	540.4	37.9	34.9
62.5	14.9	21.5	32.5	47.4	45.4	32.0	538.6	31.9	28.9
100	19.0	20.1	25.3	44.3	42.3	30.0	537.6	27.8	24.8
155	24.0	18.8	17.5	41.4	39.4	-	-	24.0	21.0
200	27.5	18.0	12.3	39.8	37.8	27.0	536.5	21.8	18.8
250	31.0	17.3	7.4	38.3	36.3	26.0	536.3	19.8	16.8
300	34.2	16.8	3.0	37.1	35.1	-	536.1	18.3	15.3
350	37.2	16.3	-1.0	36.1	34.1	-	535.9	16.9	13.9
400	40.0	15.9	-4.7	35.3	33.3	-	535.8	15.8	12.8
450	42.7	15.5	-8.2	34.5	32.5	-	-	14.7	11.7
500	45.3	15.2	-11.4	33.8	31.8	-	535.6	13.8	10.8
550	45.3	15.2	-11.4	33.8	31.8	-	353.5	13.8	10.8

Electrical performance with frequency over 500MHz is only for reference

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

JACKETS ABBREVIATION

Black	В	Last alphabetical charac-
White	W	ter of each part number
Gray	G	indicates the color code
Blue	0	that the Jacket is avail-
Yellow	Υ	able in. For example Part
Green	V	# 6CMR244Bx ("x" indi-
Orange	OR	cates all the colors to the
Purple	Р	left are available for this
Red	R	product.
Pink	PI	product.

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