



### DESCRIPTION

- 23 AWG 4 Pair F/UTP Category 6A cable tested to 550Mhz premium grade, high performance for top level network cabling for maximum headroom and bandwidth. Available in wood reel for easier installation.

### FEATURES AND BENEFITS

- Cross web filler for enhanced performance
- Rugged jacket for outside plant applications
- UV resistant polyethylene jacket
- Gel filled core
- Sequential footage markings
- Verified by third-party for guaranteed performance

### APPLICATIONS

- IEEE 802.3 1000Base-T, 100Base-Tx  
10Base-T, 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 Complies to 305/2011 & EN 50575:2014-09)
- RoHS Compliant Directive 2002/95/EG

Conductor	Material	Solid Bare copper	
	Nominal O.D (mm)	4X2X0.57(+/-0.005)mm	
Insulation	Material	HDPE	
	Diameter (± 0.05mm)	1.12+/-0.03 mm	
Shield Material		Aluminum Foil+Drain wire	
Construction		Direct Burial/Gel Filled/Shielded	
Sheath	Thickness	0.65±0.05 mm	
	External O.D.	2.60X8.0±0.2mm	
	Surface	SMOOTH	
	Material	LLDPE	
	Color	Per request	
Surface Printing	Letter height	3.5±0.3mm	
	Color	WHITE	
	Print error & Space	≤ ± 0.5%, 2ft	
Packing	1000 FT/DRUM		
Weight	49 lbs/Drum		
Packing length	1000ft ± 4ft		
Rip Cord:	Yes	Drain wire	1/0.4mm TC
Voltage Rating (Max)		DC 300V	
Sheath Physical Properties	Before Aging	Tesile Strength (Mpa)	≥13.0
		Elongation (%)	≥300
	Aging Period(°CXhrs)	100°C X 24h X 7d	
	After Aging Elongation (%)	≥75	
	Cold bend(-40±2°CX4h) 8xCable O.D.	No visible cracks	
Electrical Characteristics(20°C)	Capacitance Unbalance (pF/100m)		≤330
	DC Conductor Resistance Unbalance (%) max		5.0
	DC REsistance (Ω/1Km) max		90
	Impedance (Ω)	1.0-250.0 MHz	100±15
		250.0-600.0 MHz	100±25
	NVP	68%	
Capacitance Unbalance (pF/100m)		≤330	
Temperature Range		-40°C to 75°C	

1000' Wood Reel  
Weight: 49 lbs.

### AVAILABLE CATEGORY 6 (PART NUMBERS)

PVC	Plenum	Shielded	Shielded Plenum	Direct Burial	Shielded Direct Burial
6CMR244Bx	6CMP234Bx	6SHDCMRRx	6SHDCMPRx	6OUT234RB	<b>6OUTGSHDRB</b>
6CMR234Bx				6OUTG234RB	6OUTWSHDRB
				6OUTW234RB	
				6OUTA234RB	

\*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\*

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## PART NO. 6AOUTGSHDRX

### 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)	PHASE DE- LAY ≤ns	PSNEXT ≥(dB)	ELFEXT ≥dB	PSELFEXT ≥dB
1	2.1	20	75.3	570.0	72.3	68.0	65.0
4	3.8	23.0	66.3	552.0	63.3	56.0	53.0
8	5.3	24.5	61.8	546.7	58.8	49.9	46.9
10	5.9	25.0	60.3	545.4	57.3	48.0	45.0
16	7.5	25.0	57.2	543.0	54.2	43.9	40.9
20	8.4	25.0	55.8	542.1	52.8	42.0	39.0
25	9.4	24.3	54.3	541.2	51.3	40.0	37.0
31.25	10.5	23.6	52.9	540.4	49.9	38.1	35.1
62.5	15.0	21.5	48.4	538.6	45.4	32.1	29.1
100	19.1	20.1	45.3	537.6	42.3	28.0	25.0
200	27.6	16.4	40.8	536.5	37.8	22.0	19.0
250	31.1	15.6	39.3	536.3	36.3	20.0	17.0
300	34.3	14.9	38.1	536.1	35.1	18.5	15.5
500	45.3	13.0	34.8	535.6	31.8	14.0	11.0
600	48.5	12.3	33.6	535.0	30.6	12.0	<b>10.0</b>

### 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	BLACK	
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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