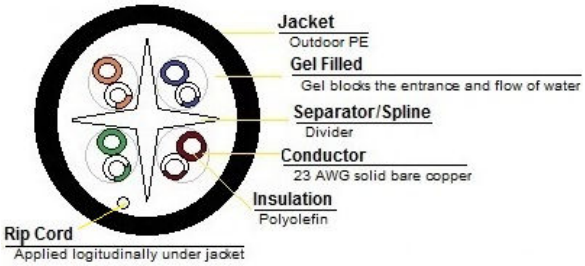
CAT6A 23AWG/4PAIR 10G DIRECT BURIAL GEL FILLED F/UTP

PART NO. 6AOUTG234RX



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 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)
- Cross web filler for enhanced performance
- Rugged jacket for outside plant applications
- UV resistant polyethylene jacket
- 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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PHYSICAL PROPERTIES

Conductor	Material	Solid Bare copper
	Nominal O. D. (mm)	0.565
Insulation	Material	HDPE
	Diameter (± 0.05mm)	1.12
Filler		PE
Construction		Direct Burial/Gel Filled
Jacket	Material	LDPE / UV Rated
	AverageThickness (mm)	0.60
	Minimum Point Thickness (mm)	0.45
	Outside Diameter (±0.4mm)	7.1
Rip Cord:		Yes
Drain Wire:		No
Packing	Length	1000ft ± 4ft
	Weight	35 lbs/Reel
Voltage Rating (Max)		DC 300V

ELECTRICAL CHARACTERISTICS

Characteristic Impedance (ohms)	1.0 - 250.0MHz	100Ω±15Ω
	250.0 - 500.0MHz	100Ω±22Ω
1.0 - 500.0MHz Delay Skew (ns/100m)		≤45
Pair-to-Ground Capacitance Unbalance (pF/100m)		≤330
Max. Conductor DC Resistance Unbalance (%)		≤5
Max. Resistance Unbalance (%)		9.38/100m
Nom. Mutual Capacitance		5.8nF/100m
Max DC Loop Resistance		19.0Ω/100m
Min DC Insulation Resistance		5000MΩ.km
Max Propagation Delay Skew		≤45ns/100m
Before Aging	Tensile Strength (Mpa)	≥10.0
	Elongation (%)	≥350
After Aging	Tensile Strength (Mpa)	-
	Elongation (%)	≥300
Aging Period (°C x hrs)		100°C x 24h x 10d
Cold Bend (No Visible Crack)		-20±2°C
Temperature Range		-40°C ~ +75°C
Velocity of Propagation (%) NVP		65%

1000' Wood Reel
Weight: 35 lbs.

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

*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*

COMMODITY CABLES, LLC.

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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 (MHz)	ATT (dB/100m)	RL (dB)	ACR (dB)	Next (dB)	PSNEXT (dB)	TCL (dB/100m)	PHASE DELAY	ELFEXT (dB/100m)	PSELFEXT dB/100m)
1	3.0	19.1	72.2	65.0	62.0	40.0	521	64.2	61.2
4	3.5	21.0	61.5	64.1	61.8	40.0	504	52.1	49.1
8	5.0	21.0	55.4	59.4	57.0	40.0	500	46.1	43.1
10	5.5	21.0	53.4	57.8	55.5	40.0	498	44.2	41.2
16	7.0	20.0	48.8	54.6	52.2	38.0	496	40.1	37.1
20	7.8	19.5	46.4	53.1	50.7	37.0	495	38.2	35.2
25	8.8	19.0	43.7	51.5	49.1	36.0	495	36.2	33.2
31.25	9.8	18.5	41.4	50.0	47.5	35.1	494	34.3	31.3
62.5	14.0	16.0	32.4	45.1	42.7	32.0	492	28.3	25.3
100	18.1	14.0	25.2	41.8	39.3	30.0	491	24.2	21.2
200	26.1	11.0	12.2	36.9	34.3	27.0	490	18.2	15.2
250	29.5	10.0	7.2	35.3	32.7	26.0	490	16.2	13.2
300	32.7	9.2	2.9	34.0	31.4	25.2	490	14.6	11.6
500	43.8	8.0	-	26.7	23.8	23.0	490	10.2	7.2

Electrical performance with frequency over 500MHz is only for reference

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

JACKETS ABBREVIATION

Black	B
White	W
Gray	G
Blue	O
Yellow	Y
Green	V
Orange	OR
Purple	P
Red	R
Pink	PI

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.

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