



Product Description

- U/UTP, 23AWG solid bare copper, CAT.6, CMX outdoor CMR
- With cross filler
- Sunlight resistant

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 600 MHz.

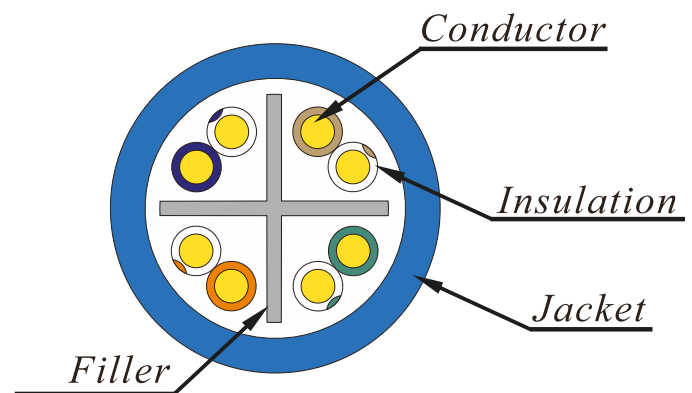
Application

- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

Applicable Standard

- Electrical Transmission
 - ANSI/TIA-568-C.2 (2009)
 - ISO/IEC 11801 (Edition 2.2)
 - IEC 61156-5 (Edition 2.1)
- Flame Test
 - UL 2556 (CMX)
 - UL 1666 (CMR)
- Material and Construction
 - UL 444
 - CSA 22.2 N 0.214
- EU Directive 2011/65/EC (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

Sectional Drawing





COMMUNICATION CABLE UTP CAT.6 INDOOR/OUTDOOR CMR/CMX BLACK JACKET



Product Description

Conductor	Material	23AWG solid bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	0.97 ± 0.02 mm
		Orange & white/orange stripe	0.93 ± 0.02 mm
		Green & white/green stripe	0.96 ± 0.02 mm
		Brown & white/brown stripe	0.93 ± 0.02 mm
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
Assembly	Description	Left hand direction	
Rip cord	Material	Polyester multi -yarn	
Jacket	Material	Flame retardant poly vinyl chloride (FRPVC)	
	Diameter	6.0 ± 0.2 mm	
	Thickness	0.50 ± 0.05 mm	
	Color	Black	

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	

Con el respaldo y representación exclusiva de Laumayer S.A.
Consulta con el director de tu zona y conoce más acerca del producto.
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COMMUNICATION CABLE UTP CAT.6 INDOOR/OUTDOOR CMR/CMX BLACK JACKET



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	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 M Ω • m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair -to-ground	≤ 330 pF/100m

Transmission Performance (at 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Ma x. ns/100m	Max. ns/100m
1	2.03	80.30	78.30	78.28	76.28	73.80	70.80	20.00	570.00	45.00
4	3.78	71.27	69.27	67.49	65.49	61.76	58.76	23.01	552.00	
8	5.32	66.75	64.75	61.43	59.43	55.74	52.74	24.52	546.73	
10	5.95	65.30	63.30	59.35	57.35	53.80	50.80	25.00	545.38	
16	7.55	62.24	60.24	54.68	52.68	49.72	46.72	25.00	543.00	
20	8.47	60.78	58.78	52.31	50.31	47.78	44.78	25.00	542.05	
25	9.51	59.33	57.33	49.83	47.83	45.84	42.84	24.32	541.20	
31.25	10.67	57.88	55.88	47.20	45.20	43.90	40.90	23.64	540.44	
62.5	15.38	53.36	51.36	37.98	35.98	37.88	34.88	21.54	538.55	
100	19.80	50.30	48.30	30.50	28.50	33.80	30.80	20.11	537.60	
150	24.71	47.66	45.66	22.95	20.95	30.28	27.28	18.87	536.94	
200	28.98	45.78	43.78	16.80	14.80	27.78	24.78	18.00	536.55	
250	32.85	44.33	42.33	11.48	9.48	25.84	22.84	17.32	536.28	
300	36.43	43.14	41.14	6.72	4.72	24.26	21.26	16.77	536.08	
350	39.79	42.14	40.14	2.35	0.35	22.92	19.92	16.30	535.92	
400	42.97	41.27	39.27	N.A.	N.A.	21.76	18.76	15.89	535.80	
450	46.01	40.50	38.50	N.A.	N.A.	20.74	17.74	15.53	535.70	
500	48.94	39.82	37.82	N.A.	N.A.	19.82	16.82	15.21	535.61	
550	51.76	39.19	37.19	N.A.	N.A.	18.99	15.99	14.92	535.54	
600	54.49	38.63	36.63	N.A.	N.A.	18.24	15.24	14.66	535.47	

Values above 250MHz are for information only.