



Product Description

- U/UTP, 24AWG solid bare copper, CAT.5E, CMX outdoor CMR
- Sunlight resistant

Product Features

- High performance of transmission .
- High quality of safety property.
- Sweep frequency up to 350 MHz.

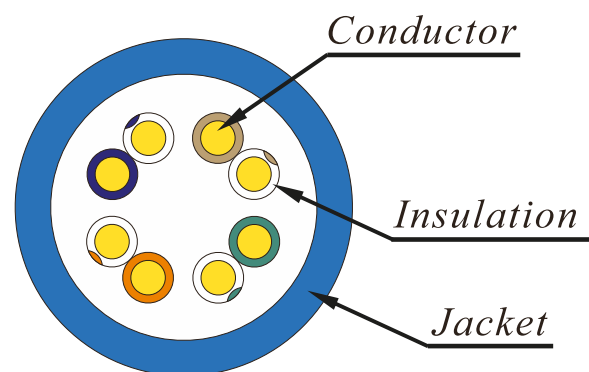
Application

- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T 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.5E INDOOR/OUTDOOR CMR/CMX BLACK JACKET



Product Description

Conductor	Material	24AWG solid bare copper	
Insulation	Material	Polyolefin (P O)	
	Color code & diameter	Blue & white/blue Stripe	0.85 ± 0.02 mm
		Orange & white/orange stripe	0.83 ± 0.02 mm
		Green & white/green stripe	0.85 ± 0.02 mm
		Brown & white/brown stripe	0.83 ± 0.02 mm
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Jacket	Material	Flame retardant poly vinyl chloride (FRPVC)	
	Diameter	4.9 ± 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	

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Consulta con el director de tu zona y conoce más acerca del producto.
Sede principal: Carrera 50 C No. 10 Sur 61 PBX: (4) 361 85 85 - Fax: (4) 361 38 87
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COMMUNICATION CABLE UTP CAT.5E 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 MΩ • 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	Max. ns/100m	Max. ns/100m
1	2.04	70.30	67.30	68.26	65.26	68.80	65.80	20.00	570.00	45.00
4	4.05	61.27	58.27	57.22	54.22	56.76	53.76	23.01	552.00	
8	5.77	56.75	53.75	50.99	47.99	50.74	47.74	24.52	546.73	
10	6.47	55.30	52.30	48.83	45.83	48.80	45.80	25.00	545.38	
16	8.25	52.24	49.24	43.99	40.99	44.72	41.72	25.00	543.00	
20	9.27	50.78	47.78	41.52	38.52	42.78	39.78	25.00	542.05	
25	10.42	49.33	46.33	38.91	35.91	40.84	37.84	24.32	541.20	
31.25	11.72	47.88	44.88	36.15	33.15	38.90	35.90	23.64	540.44	
62.5	16.99	43.36	40.36	26.37	23.37	32.88	29.88	21.54	538.55	
100	21.98	40.30	37.30	18.33	15.33	28.80	25.80	20.11	537.60	
150	27.54	37.66	34.66	10.11	7.11	25.28	22.28	18.87	536.94	
200	32.42	35.78	32.78	3.36	0.36	22.78	19.78	18.00	536.55	
250	36.85	34.33	31.33	N.A.	N.A.	20.84	17.84	17.32	536.28	
300	40.97	33.14	30.14	N.A.	N.A.	19.26	16.26	16.77	536.08	
350	44.85	32.14	29.14	N.A.	N.A.	17.92	14.92	16.30	535.92	

Values above 100MHz are for information only.

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