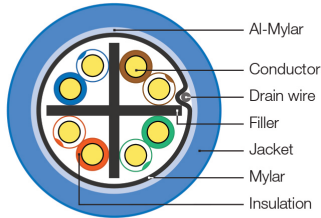


Specs for F/UTP, 23 copper, CAT.6, CMR

Part no. FUTP4-C6-SOLID-CMR-XX-305



Description:

F/UTP, 23AWG solid bare copper, CAT.6
 With cross filler
 Overall metal foil screen with drain wire

Performance specifications

- Structure cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- Overall metal shielded providing good protection from EMI noise.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

Environmental conditions

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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2212 Gladwin Crescent, Unit C7, Ottawa, Ontario, K1B 5N1, Canada

Features

- Electrical Transmission

ANSI/TIA-568-C.2 (2009)

ISO/IEC 11801 (Edition 2.2)

IEC 61156-5 (Edition 2.0)

- Flame Test

UL 1666 (CMR)

- Material and Construction

UL 444

CSA 22.2 NO.214

- EU Directive 2011/65/EC (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

Construction characteristic features

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



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Design features

High performance of transmission.

High quality of safety property.

Sweep frequency up to 400 MHz.

Materials

Conductor	Material	23AWG solid bare copper	
Insulation	Material	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue Stripe	1.08 ±
		Orange & white/orange stripe	1.05 ±
		Green & white/green stripe	1.08 ±
		Brown & white/brown stripe	1.05 ±
Twisted	Description	Left hand direction	
Filler	Material	Polyolefin (PO)	
Assembly	Description	Left hand direction	
Shield	Material	Mylar tape	
Drain wire	Material	24AWG solid tinned copper	
Shield	Material	Al Mylar tape	
	Description	100 % coverage and mylar side facing out	
Jacket	Material	Flame retardant polyvinyl chloride (FRPVC)	
	Diameter	7.20 ± 0.2 mm	
	Thickness	0.45 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE 1000X CAT 6 GIGASYSTEM TESTED TO 400MHz — E142890 FTP 4PR 23AWG 75°C(UL)US CMR — ETL COMPLIANT XXXXFT Note 1: mmyy is date code.		



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Electrical characteristics

Frequency	IL	NEXT	PS.NEXT	ACR	PS.ACR	ACRF	PS.ACRF	RL
(MHz)	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m	dB/100m
1	2.03	77.30	75.30	75.28	73.28	70.80	67.80	20.00
4	3.78	68.27	66.27	64.49	62.49	58.76	55.76	23.01
8	5.32	63.75	61.75	58.43	56.43	52.74	49.74	24.52
10	5.95	62.30	60.30	56.35	54.35	50.80	47.80	25.00
16	7.55	59.24	57.24	51.68	49.68	46.72	43.72	25.00
20	8.47	57.78	55.78	49.31	47.31	44.78	41.78	25.00
25	9.51	56.33	54.33	46.83	44.83	42.84	39.84	24.32
31.25	10.67	54.88	52.88	44.20	42.20	40.90	37.90	23.64
62.5	15.38	50.36	48.36	34.98	32.98	34.88	31.88	21.54
100	19.80	47.30	45.30	27.50	25.50	30.80	27.80	20.11
150	24.71	44.66	42.66	19.95	17.95	27.28	24.28	18.87
200	28.98	42.78	40.78	13.80	11.80	24.78	21.78	18.00
250	32.85	41.33	39.33	8.48	6.48	22.84	19.84	17.32
300	36.43	40.14	38.14	3.72	1.72	21.26	18.26	16.77
350	39.79	39.14	37.14	N.A.	N.A.	19.92	16.92	16.30
400	42.97	38.27	36.27	N.A.	N.A.	18.76	15.76	15.89

Values above 250MHz are for information only.



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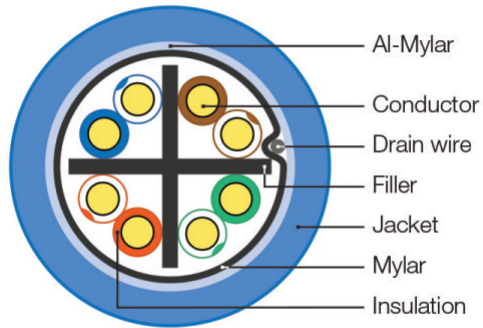


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Specifications



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