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Product: Mohawk Cat 6 F/UTP CMP

Mohawk Category 6 Cable, 4 Pair, F/UTP, CMP

Product Description

Mohawk Category 6 Premise Horizontal Cable, 4 Pair, 23 AWG Solid Bare Copper Conductors, F/UTP - Foil Shielded, Plenum-CMP, Flamarrest® PVC-LS Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, Surveillance, PoE++, PoE+, PoE, Noisy Environments
Patent:	This product has one or more applicable patents. More information on patents can be found at https://www.belden.com/patents.

Construction Details

Conductor

Size	Stranding	Material	Number of Pairs
23 AWG	Solid	BC - Bare Copper	4

Insulation

Material	Color Code
FEP - Fluorinated Ethylene Propylene	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Polyester + Bi-Laminate (Alum+Poly)	100%	24 AWG (Solid) TC

Outer Jacket

Separator	Material	Nom. Diameter	Ripcord
Flexweb® Core Separator	PVC - Polyvinyl Chloride	0.310 in (7.87 mm)	No

Overall Cable Diameter (Nominal):	0.310 in (7.87 mm)

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	330 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	45 ns/100ft	72%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted) [Ohm]	Max./Min. Fitted Impedance [Ohm]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0	100 ± 15	100 ± 15	40.0	35.0
4	3.8	65.3	63.3	61.5	59.5	55.7	52.7	23.0	100 ± 15	100 ± 15	40.0	23.0
8	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5	100 ± 15	100 ± 15	40.0	16.9
10	6.0	59.3	57.3	53.4	51.4	47.8	44.8	25.0	100 ± 15	100 ± 15	40.0	15.0
16	7.6	56.3	54.3	48.7	46.7	43.7	40.7	25.0	100 ± 15	100 ± 15	38.0	10.9

20	8.5	54.8	52.8	46.3	44.3	41.7	38.7	25.0	100 ± 15	100 ± 15	37.0	9.0
25	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3	100 ± 15	100 ± 15	36.0	7.0
31.25	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6	100 ± 15	100 ± 15	35.1	5.1
62.5	15.4	47.4	45.4	32.0	30.0	31.8	28.8	21.5	100 ± 15	100 ± 15	32.0	
100	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1	100 ± 15	100 ± 15	30.0	
155	25.2	41.5	39.5	16.3	14.3	23.9	20.9	18.8	100 ± 22	100 ± 15	28.1	
200	29.0	39.8	37.8	10.8	8.8	21.7	18.7	18.0	100 ± 22	100 ± 15	27.0	
250	32.8	38.3	36.3	5.5	3.5	19.8	16.8	17.3	100 ± 32	100 ± 15	26.0	
500	48.9	33.8	31.8					15.2	100 ± 32	100 ± 15	23.0	
550	51.8	33.2	31.2					14.9	100 ± 32	100 ± 15	22.6	

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage
60°C	-20°C To +60°C	0°C To +50°C	-20°C To +60°C

Bend Radius

Stationary Min.	Installation Min.
1.0 in (25 mm)	2.25 in (57.2 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	44 lbs/1000ft (65 kg/km)

Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262 Plenum (UL 910), FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
ICEA Compliance:	S-116-732
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
NEMA Compliance:	ANSI/NEMA WC-66
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 6
Third Party Performance Verification:	Category 6
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2017-07-10
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Non-Plenum Number:	Category 6 FUTP CMR

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.

History

Update and Revision:	Revision Number: 0.26 Revision Date: 01-20-2023

Part Numbers

Variants

Item #	Color	Putup Type	Length
M58183	Black	Reel	1,000 ft
M58176	Blue	Reel	1,000 ft
M58179	Gray	Reel	1,000 ft
M58180	Green, Dark	Reel	1,000 ft
M58182	Orange	Reel	1,000 ft
M58177	Pink	Reel	1,000 ft

M58181	Red	Reel	1,000 ft
M58184	Violet	Reel	1,000 ft
M58175	White	Reel	1,000 ft
M58178	Yellow	Reel	1,000 ft

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