



Product: [6 LAN Category 6 CMP](#) 

Category 6 Cable, 4 Pair, U/UTP, CMP

Product Description

Category 6 Premise Horizontal Cable (250MHz), 4 Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, 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
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Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
23	Solid	BC - Bare Copper	4

Insulation

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

Outer Jacket

Material	Material Trade Name	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	Flamarrest®	0.224 in (5.69 mm)	Yes

Overall Cable Diameter (Nominal):	0.224 in (5.69 mm)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
78 Ohm/km (24 Ohm/1000ft)	330 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	35 ns/100m	72%

Voltage

UL Voltage Rating
300 V (CMP)

Mechanical Characteristics

Temperature

UL Temperature	Operating	Installation	Storage
75°C	-20°C To +75°C	0°C To +50°C	-20°C To +75°C

Bend Radius

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

Max. Pull Tension:	25 lbs (11 kg)
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Bulk Cable Weight:	25 lbs/1000ft (37 kg/km)
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Standards and Compliance

Environmental Suitability:	PlenumIndoor, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum)
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMP
CEC / C(UL) Compliance:	CMP
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568.2-D 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)

Product Notes

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

Update and Revision:	Revision Number: 0.14 Revision Date: 07-16-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
M58289	Black	Reel	1,000 ft	799936116632
M58289B	Black		1,000 ft	799936139662
M58289RB	Black		1,000 ft	799936139679
M58281B X	Blue			
M58281	Blue	Reel	1,000 ft	799936116564
M58281RB	Blue		1,000 ft	799936139488
M58281B	Blue, Light		1,000 ft	799936139471
M58756B	Brown		1,000 ft	799936139709
M58285	Gray	Reel	1,000 ft	799936116595
M58285B	Gray		1,000 ft	799936139570
M58285-2.5	Gray	Reel	2,500 ft	799936139563
M58286	Green, Dark	Reel	1,000 ft	799936116601
M58286B	Green, Dark		1,000 ft	799936139594
M58286RB	Green, Dark		1,000 ft	799936139600
M58288	Orange	Reel	1,000 ft	799936116625
M58288B	Orange		1,000 ft	799936139648
M58282B	Pink		1,000 ft	799936139532
M58287	Red	Reel	1,000 ft	799936116618
M58287B	Red		1,000 ft	799936139624
M58287RB	Red		1,000 ft	799936139631
M58290	Violet	Reel	1,000 ft	799936116649
M58290B	Violet		1,000 ft	799936139686
M58280B X	White			
M58280	White	Reel	1,000 ft	799936116557
M58280B	White		1,000 ft	799936139433
M58283B-.5	Yellow			799936148848
M58283	Yellow	Reel	1,000 ft	799936116588
M58283B	Yellow		1,000 ft	799936139549

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