



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

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

Product Description

Category 6 Premise Horizontal Cable (250MHz), 4 Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Riser-CMR, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, Surveillance, PoE++, PoE+, PoE
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	No. of Pairs
23	Solid	BC - Bare Copper	4

Insulation

Material	Color Code
PO - Polyolefin	White/Blue Stripe & Blue, White/Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	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	70%

Voltage

UL Voltage Rating
300 V RMS (CMR)

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 in (57.2 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	22 lbs/1000ft (33 kg/km)

Standards and Compliance

Environmental Suitability:	RiserIndoor, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1666 Riser
CPR Compliance:	CPR Euroclass: Eca
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMR.
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 6
Third Party Performance Verification:	Category 6
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class E
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)
Plenum Number:	D6UP

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: 0.16 Revision Date: 07-28-2026
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Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC
M58299B	Black	Box	1,000 ft	799936139914
M58292B	Blue, Light	Box	1,000 ft	799936139730
M58295B	Gray	Box	1,000 ft	799936139839
M58296B	Green, Dark	Box	1,000 ft	799936139853
M58298B	Orange	Box	1,000 ft	799936139891
M58293B	Pink	Box	1,000 ft	799936139815
M58297B	Red	Box	1,000 ft	799936139877
M58291B X	White			
M58291B	White	Box	1,000 ft	799936139723
M58294B	Yellow	Box	1,000 ft	799936139754

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