



**Product:** <u>1212</u> ☑

Category 5E+ Cable, 4 Pair, U/UTP, CMR

# **Product Description**

Category 5E+ Premise Horizontal Cable (350MHz), 4 Pair, 24 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, PoE++, PoE+, PoE
Patent:	This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> .

## **Construction Details**

### Conductor

Size	Stranding	Material	Number of Pairs
24 AWG	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	0.206 in (5.23 mm)	Yes
Overall Cable Diameter Nominal):	0.206 in (5.23 mr	m)

# **Electrical Characteristics**

# Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
89 Ohm/km (27 Ohm/1000ft)	330 pF/100m

#### Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	25 ns/100m	70%

## High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	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]
1	2.0 dB/100m	70.3	69.3	68.3	67.3	67.8	65.8	20.0	100 ± 15	100 ± 15
4	4.0 dB/100m	61.3	60.3	57.3	56.3	55.8	53.8	23.0	100 ± 15	100 ± 15
8	5.7 dB/100m	56.8	55.8	51.1	50.1	49.7	47.7	24.5	100 ± 15	100 ± 15
10	6.4 dB/100m	55.3	54.3	48.9	47.9	47.8	45.8	25.0	100 ± 15	100 ± 15
16	8.1 dB/100m	52.2	51.2	44.1	43.1	43.7	41.7	25.0	100 ± 15	100 ± 15
20	9.1 dB/100m	50.8	49.8	41.7	40.7	41.8	39.8	25.0	100 ± 15	100 ± 15
25	10.2 dB/100m	49.3	48.3	39.1	38.1	39.8	37.8	24.3	100 ± 15	100 ± 15
31.25	11.4 dB/100m	47.9	46.9	36.4	35.4	37.9	35.9	23.6	100 ± 15	100 ± 15

62.5	16.4 dB/100m	43.4	42.4	27.0	26.0	31.9	29.9	21.5	100 ± 15	100 ± 15
100	21.0 dB/100m	40.3	39.3	19.3	18.3	27.8	25.8	20.1	100 ± 15	100 ± 15
155	26.6 dB/100m	37.4	36.4	10.9	9.9	24.0	22.0	18.8	100 ± 22	100 ± 15
200	30.5 dB/100m	35.8	34.8	5.3	4.3	21.8	19.8	18.0	100 ± 22	100 ± 15
250	34.4 dB/100m	34.3	33.3	-0.1	-1.1	19.8	17.8	17.3	100 ± 32	100 ± 15
300	38.0 dB/100m	33.1	32.1			18.3	16.3	14.4	100 ± 32	100 ± 15
350	41.4 dB/100m	32.1	31.1			16.9	14.9	13.8	100 ± 32	100 ± 15
400	44.6 dB/100m	31.3	30.3			15.8	13.8	13.3	100 ± 32	100 ± 15
450	47.7 dB/100m	30.5	29.5			14.7	12.7	12.8	100 ± 32	100 ± 15

## Voltage

UL Voltage Rating 300 V (CMR)

# **Mechanical Characteristics**

## Temperature

<b>UL Temperature</b>	Operating	Installation	Storage
75°C	-20°C To +75°C	0°C To +50°C	-20°C To +75°C

## Bend Radius

nstallation Min.
25 in (57.2 mm)

Max. Pull Tension: 25 lbs (11 kg)
Bulk Cable Weight: 20 lbs/1000ft

# **Standards and Compliance**

Environmental Suitability:	Riser, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1666 Riser, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
ICEA Compliance:	S-90-661
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3
NEMA Compliance:	NEMA WC-63.1
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
Third Party Performance Verification:	Category 5e
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-5
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1213

# **Product Notes**

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 350 MHz are for Engineering Information Only. Print Includes Descending Footage/Meter Markings from Max. Put-Up Length to 0.

# History

Update and Revision:	Revision Number: 0.435 Revision Date: 01-20-2023

# **Part Numbers**

# Variants

Item #	Color	UPC
1212 010U1000	Black	612825061410
1212 0061000	Blue	612825061519
1212 0062500	Blue	612825061434

1212 006U1000	Blue	612825061427
1212 008U1000	Gray	612825061465
1212 005U1000	Green	612825061441
1212 003U1000	Orange	612825061458
1212 0091000	White	612825061489
1212 009U1000	White	612825061472
1212 0041000	Yellow	612825062189
1212 004U1000	Yellow	612825061496

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