



**Product:** <u>1585A</u> ☑

Category 5e Cable, 4 Pair, U/UTP, CMP

# **Product Description**

Category 5e Premise Horizontal Cable (200MHz), 4 Pair, 24 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, 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
24 AWG	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®	0.190 in (4.83 mm)	Yes
Overall Cable Diameter (Nominal):	0.190 in (4.83 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/100m	72%

### 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	65.3	62.3	63.3	60.3	63.8	60.8	20.0	100 ± 15	100 ± 15
4	4.1 dB/100m	56.3	53.3	52.2	49.2	51.8	48.8	23.0	100 ± 15	100 ± 15
8	5.8 dB/100m	51.8	48.8	46.0	43.0	45.7	42.7	24.5	100 ± 15	100 ± 15
10	6.5 dB/100m	50.3	47.3	43.8	40.8	43.8	40.8	25.0	100 ± 15	100 ± 15
16	8.2 dB/100m	47.2	44.2	39.0	36.0	39.7	36.7	25.0	100 ± 15	100 ± 15
20	9.3 dB/100m	45.8	42.8	36.5	33.5	37.8	34.8	25.0	100 ± 15	100 ± 15
25	10.4 dB/100m	44.3	41.3	33.9	30.9	35.8	32.8	24.3	100 ± 15	100 ± 15
31.25	11.7 dB/100m	42.9	39.9	31.2	28.2	33.9	30.9	23.6	100 ± 15	100 ± 15

62.5	17.0 dB/100m	38.4	35.4	21.4	18.4	27.9	24.9	21.5	100 ± 15	100 ± 15
100	22.0 dB/100m	35.3	32.3	13.3	10.3	23.8	20.8	20.1	100 ± 15	100 ± 15
155	28.1 dB/100m	32.4	29.4	4.4	1.4	20.0	17.0	18.8		
200	32.4 dB/100m	30.8	27.8	4.0	1.0	17.8	14.8	18.0		

# Voltage

UL Voltage Rating 300 V (CMP)

### **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

Stationary Min.	Installation Min.
1.0 in (25 mm)	2.0 in (51 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	21 lbs/1000ft

# **Standards and Compliance**

Sustainability: Product Lens Environmental Product Declaration (EPD) Available Fire: Price: P		
Flammability / Reaction to Fire:  NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2  CPR Compliance: CPR Euroclass: Eca; CPR UKCA Class: Eca  NEC / UL Compliance: Article 800, CMP  CEC / C(UL) Compliance: CMP  ICEA Compliance: S-90-661  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  TIA/EIA Compliance: Verification: Verification: SO/IEC Compliance: USO/IEC Compliance: USO/IEC Compliance: USO/IEC Compliance: USO/IEC Compliance: USO/IEC T1801-1, IEC 61156-5  European Directive Compliance: UK Regulation Compliance: UKCA Mark  APAC Compliance: CPR Euroclass: Eca; CPR UKCA Class: Eca  Article 800, CMP  Article 800, C	Environmental Suitability:	Plenum, Indoor
Fire: MFA 222. Ct 910 (Februin), F10. IEC 60352-12  CPR Compliance: CPR Euroclass: Eca; CPR UKCA Class: Eca  NEC / UL Compliance: Article 800, CMP  CEC / C(UL) Compliance: CMP  ICEA Compliance: S-90-661  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  TIA/EIA Compliance: SO/IEC 1880-1, IEC 61156-5  European Directive Compliance: SO/IEC 1880-1, IEC 61156-5  European Directive Compliance: UKCA Mark  APAC Compliance: UKCA Mark  China RoHS II (GB/T 26572-2011)	Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
NEC / UL Compliance: Article 800, CMP  CEC / C(UL) Compliance: CMP  CEC / C(UL) 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  Tilid Party Performance Verification: SCO/IEC 11801-1, IEC 61156-5  European Directive Compliance: BU 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  WK Regulation Compliance: UKCA Mark  APAC Compliance: Cina RoHS II (GB/T 26572-2011)	Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, IEC 60332-1-2
CEC / C(UL) Compliance: CEC / C(UL) Compliance: CEC / C(UL) Compliance: CEC / C(UL) 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: SO/IEC Compliance: ISO/IEC 1801-1, IEC 61156-5  European Directive Compliance: UK Regulation Compliance: UK Regulation Compliance: UKCA Mark  APAC Compliance: China RoHS II (GB/T 26572-2011)	CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
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  TIA/EIA Compliance: Category 5e  Tiorid Party Performance Verification: ISO/IEC 11801-1, IEC 61156-5  European Directive Compliance: BU 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)	NEC / UL Compliance:	Article 800, CMP
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  Tikid Party Performance Verification: SO/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)	CEC / C(UL) Compliance:	CMP
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Third Party Performance Verification:  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)	Data Category:	Category 5e
Verification: Category 36  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)	TIA/EIA Compliance:	ANSI/TIA-568.2-D Category 5e
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APAC Compliance: China RoHS II (GB/T 26572-2011)	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
Non-Plenum Number: 1583A	APAC Compliance:	China RoHS II (GB/T 26572-2011)
	Non-Plenum Number:	1583A

# **Product Notes**

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Values above 100 MHz are for Engineering Information Only. Print Includes Descending Footage Markings from Max. Put-Up Length to 0.
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# History

Update and Revision:	Revision Number: 0.657 Revision Date: 05-21-2024

### **Part Numbers**

### Variants

Color	Putup Type	Length	UPC	Footnote
Black	Reel	500 ft	612825118404	
Black	Reel	1,000 ft	612825118398	С
Black	UnReel	1,000 ft	612825118381	
Blue	Reel	1,000 ft	612825118244	С
Blue	UnReel	1,000 ft	612825118237	
Blue	Reel	3,000 ft	612825118251	С
Gray	Reel	1,000 ft	612825118350	С
Gray	UnReel	1,000 ft	612825118343	
	Black Black Black Blue Blue Blue Gray	Black Reel Black Reel Black UnReel Blue Reel Blue UnReel Blue Reel Blue Reel Gray Reel	Black         Reel         500 ft           Black         Reel         1,000 ft           Black         UnReel         1,000 ft           Blue         Reel         1,000 ft           Blue         UnReel         1,000 ft           Blue         Reel         3,000 ft           Gray         Reel         1,000 ft	Black         Reel         500 ft         612825118404           Black         Reel         1,000 ft         612825118398           Black         UnReel         1,000 ft         612825118381           Blue         Reel         1,000 ft         612825118244           Blue         UnReel         1,000 ft         612825118237           Blue         Reel         3,000 ft         612825118251           Gray         Reel         1,000 ft         612825118350

1585A 0051000	Green	Reel	1,000 ft	612825118336	С
1585A 005U1000	Green	UnReel	1,000 ft	612825118329	
1585A 8771000	Natural	Reel	1,000 ft	612825118442	С
1585A 877U1000	Natural	UnReel	1,000 ft	612825118435	
1585A 0031000	Orange	Reel	1,000 ft	612825118299	С
1585A 003U1000	Orange	UnReel	1,000 ft	612825118282	
1585A 0121000	Pink	Reel	1,000 ft	612825118428	С
1585A 012U1000	Pink	UnReel	1,000 ft	612825118411	
1585A 0021000	Red	Reel	1,000 ft	612825118275	С
1585A 002U1000	Red	UnReel	1,000 ft	612825118268	
1585A 0091000	White	Reel	1,000 ft	612825118374	С
1585A 009U1000	White	UnReel	1,000 ft	612825118367	
1585A 0041000	Yellow	Reel	1,000 ft	612825118312	С
1585A 004U1000	Yellow	UnReel	1,000 ft	612825118305	

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