



**Product:** [1352A](#)

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

## Product Description

Category 6 Premise Horizontal Cable (250MHz), 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 <a href="https://www.belden.com/resources/patents">https://www.belden.com/resources/patents</a> .

### 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	Material Trade Name	Nom. Diameter	Ripcord
Center Member (Patented X-Spline®)	PVC - Polyvinyl Chloride	Flamarrest®	0.285 in (7.24 mm)	No

Overall Cable Diameter (Nominal): 0.285 in (7.24 mm)

### Electrical Characteristics

#### Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km	160 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. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance	Min. TCL [dB]	Min. ELCTL [dB]
1	2.0 dB/100m	74.3	72.3	70.3	67.8	64.8	20.0	100 ± 15 Ohm	100 ± 15 Ohm	40.0	35.0
4	3.8 dB/100m	65.3	63.3	59.5	55.7	52.7	23.0	100 ± 15 Ohm	100 ± 15 Ohm	40.0	23.0
8	5.3 dB/100m	60.8	58.8	53.4	49.7	46.7	24.5	100 ± 15 Ohm	100 ± 15 Ohm	40.0	16.9
10	6.0 dB/100m	59.3	57.3	51.4	47.8	44.8	25.0	100 ± 15 Ohm	100 ± 15 Ohm	40.0	15.0

16	7.6 dB/100m	56.3	54.3	46.7	43.7	40.7	25.0	100 ± 15 Ohm	100 ± 15 Ohm	38.0	10.9
20	8.5 dB/100m	54.8	52.8	44.3	41.7	38.7	25.0	100 ± 15 Ohm	100 ± 15 Ohm	37.0	9.0
25	9.5 dB/100m	53.3	51.3	41.8	39.8	36.8	24.3	100 ± 15 Ohm	100 ± 15 Ohm	36.0	7.0
31.25	10.7 dB/100m	51.9	49.9	39.2	37.9	34.9	23.6	100 ± 15 Ohm	100 ± 15 Ohm	35.1	5.1
62.5	15.4 dB/100m	47.4	45.4	30.0	31.8	28.8	21.5	100 ± 15 Ohm	100 ± 15 Ohm	32.0	
100	19.8 dB/100m	44.3	42.3	22.5	27.8	24.8	20.1	100 ± 15 Ohm	100 ± 15 Ohm	30.0	
155	25.2 dB/100m	41.5	39.5	14.3	23.9	20.9	18.8	100 ± 22 Ohm	100 ± 15 Ohm	28.1	
200	29.0 dB/100m	39.8	37.8	8.8	21.7	18.7	18.0	100 ± 22 Ohm	100 ± 15 Ohm	27.0	
250	32.8 dB/100m	38.3	36.3	3.5	19.8	16.8	17.3	100 ± 32 Ohm	100 ± 15 Ohm	26.0	

#### Voltage

<b>UL Voltage Rating</b>
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 in (57.2 mm)

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

### Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, 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-116-732-2013
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-568.2-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), 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)
Non-Plenum Number:	1351A

### Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Shield is Bonded to Jacket Inner Wall for Electrical Stability. Print Includes Descending Footage Markings from Max. Put-Up Length to 0.
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### History

Update and Revision:	Revision Number: 0.527 Revision Date: 02-16-2022
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#### Variants

Item #	Color	Putup Type	Length	UPC
1352A D151000	Blue	Reel	1,000 ft	612825112457
1352A 0081000	Gray	Reel	1,000 ft	612825112471
1352A 0091000	White	Reel	1,000 ft	612825112488
1352A 0041000	Yellow	Reel	1,000 ft	612825112464

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