



Product: [1752A](#)

Category 5e+ Patch Cable, 4 Bonded-Pairs, U/UTP, CM

Product Description

Category 5e+ Premise Patch Cable (350MHz), 4 Bonded-Pairs, 24 AWG Stranded (7x32) Tinned Copper Conductors, U/UTP, CM, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Patch 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/resources/patents .

Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	7x32	TC - Tinned Copper	4

Insulation

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

Bonded-Pair:	Yes
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Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.220 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Max. Capacitance Unbalance	Nom. Mutual Capacitance
90 Ohm/km	3%	160 pF/100m	15 pF/ft

Delay

Frequency [MHz]	Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
100 MHz	537.6 ns/100m	25 ns/100m	70%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted)	Max./Min. Fitted Impedance
1 MHz	2.4 dB/100m	65.3 dB	65.3 dB	63.8 dB	60.8 dB	20.0 dB	100 ± 12 Ohm	105 ± 10 Ohm
4 MHz	4.8 dB/100m	56.3 dB	56.3 dB	51.7 dB	48.7 dB	23.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
8 MHz	6.8 dB/100m	51.8 dB	51.8 dB	45.7 dB	42.7 dB	24.5 dB	100 ± 12 Ohm	100 ± 10 Ohm
10 MHz	7.7 dB/100m	50.3 dB	50.3 dB	43.8 dB	40.8 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
16 MHz	9.8 dB/100m	47.3 dB	47.3 dB	39.7 dB	36.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
20 MHz	11.0 dB/100m	45.8 dB	45.8 dB	37.7 dB	34.7 dB	25.0 dB	100 ± 12 Ohm	100 ± 10 Ohm
25 MHz	12.4 dB/100m	44.3 dB	44.3 dB	35.8 dB	32.8 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
31.25 MHz	13.9 dB/100m	42.9 dB	42.9 dB	33.9 dB	30.9 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
62.5 MHz	20.1 dB/100m	38.4 dB	38.4 dB	27.8 dB	24.8 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm

100 MHz	26.1 dB/100m	35.3 dB	35.3 dB	23.8 dB	20.8 dB	19.0 dB	100 ± 15 Ohm	100 ± 10 Ohm
155 MHz	33.3 dB/100m	32.5 dB	32.5 dB	19.9 dB	16.9 dB	19.0 dB	100 ± 18 Ohm	100 ± 10 Ohm
200 MHz	38.4 dB/100m	30.8 dB	30.8 dB	17.7 dB	14.7 dB	19.0 dB	100 ± 18 Ohm	100 ± 10 Ohm
250 MHz	43.7 dB/100m	29.3 dB	29.3 dB	15.8 dB	12.8 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm
300 MHz	48.6 dB/100m	28.2 dB	28.2 dB	14.2 dB	11.2 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm
310 MHz	49.5 dB/100m	27.9 dB	27.9 dB	13.9 dB	10.9 dB	18.0 dB	100 ± 20 Ohm	100 ± 10 Ohm
350 MHz	53.2 dB/100m	27.2 dB	27.2 dB	12.9 dB	9.9 dB	17.0 dB	100 ± 22 Ohm	100 ± 10 Ohm

Voltage

UL Voltage Rating
300 V (CM)

Mechanical Characteristics

Temperature

UL Rating	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	2.2 in

Max. Pull Tension:	40 lbs
Bulk Cable Weight:	21 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Fire Resistance:	UL 1685 (UL 1581) Vertical Tray, FT1, FT1
NEC / UL Compliance:	800, CM
CEC / C(UL) Compliance:	CM
ICEA Compliance:	S-90-661-2012
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
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU, EU Directive 2011/65/EU (ROHS II), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
1752A 0101000	Black	Reel	1,000 ft	612825122210
1752A 010U1000	Black	UnReel	1,000 ft	612825122203
1752A 0061000	Blue	Reel	1,000 ft	612825122173
1752A 006U1000	Blue	UnReel	1,000 ft	612825122166
1752A F2V1000	Gray	Reel	1,000 ft	612825122074
1752A F2VU1000	Gray	UnReel	1,000 ft	612825122067
1752A 0051000	Green	Reel	1,000 ft	612825122159
1752A 005U1000	Green	UnReel	1,000 ft	612825122142
1752A 0031000	Orange	Reel	1,000 ft	612825122111
1752A 003U1000	Orange	UnReel	1,000 ft	612825122104
1752A 007U1000	Purple	UnReel	1,000 ft	612825122180
1752A 0021000	Red	Reel	1,000 ft	612825122098
1752A 002U1000	Red	UnReel	1,000 ft	612825122081
1752A 0041000	Yellow	Reel	1,000 ft	612825122135
1752A 004U1000	Yellow	UnReel	1,000 ft	612825122128

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. Print Includes Descending Footage Markings. Conductor strands are bonded together.
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History

Update and Revision:	Revision Number: 0.391 Revision Date: 09-30-2020
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