



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/patents .

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
24 AWG	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
--------------	-----

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.220 in (5.59 mm)	No

Overall Cable Diameter (Nominal):	0.220 in (5.59 mm)
-----------------------------------	--------------------

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
90 Ohm/km (27 Ohm/1000ft)	160 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. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Max./Min. Input Impedance (unFitted) [Ohm]	Max./Min. Fitted Impedance [Ohm]
1	2.4 dB/100m	65.3	65.3	63.8	60.8	20.0	100 ± 12	105 ± 10
4	4.8 dB/100m	56.3	56.3	51.7	48.7	23.0	100 ± 12	100 ± 10
8	6.8 dB/100m	51.8	51.8	45.7	42.7	24.5	100 ± 12	100 ± 10
10	7.7 dB/100m	50.3	50.3	43.8	40.8	25.0	100 ± 12	100 ± 10
16	9.8 dB/100m	47.3	47.3	39.7	36.7	25.0	100 ± 12	100 ± 10
20	11.0 dB/100m	45.8	45.8	37.7	34.7	25.0	100 ± 12	100 ± 10
25	12.4 dB/100m	44.3	44.3	35.8	32.8	19.0	100 ± 15	100 ± 10
31.25	13.9 dB/100m	42.9	42.9	33.9	30.9	19.0	100 ± 15	100 ± 10

62.5	20.1 dB/100m	38.4	38.4	27.8	24.8	19.0	100 ± 15	100 ± 10
100	26.1 dB/100m	35.3	35.3	23.8	20.8	19.0	100 ± 15	100 ± 10
155	33.3 dB/100m	32.5	32.5	19.9	16.9	19.0	100 ± 18	100 ± 10
200	38.4 dB/100m	30.8	30.8	17.7	14.7	19.0	100 ± 18	100 ± 10
250	43.7 dB/100m	29.3	29.3	15.8	12.8	18.0	100 ± 20	100 ± 10
300	48.6 dB/100m	28.2	28.2	14.2	11.2	18.0	100 ± 20	100 ± 10
310	49.5 dB/100m	27.9	27.9	13.9	10.9	18.0	100 ± 20	100 ± 10
350	53.2 dB/100m	27.2	27.2	12.9	9.9	17.0	100 ± 22	100 ± 10

Voltage

UL Voltage Rating
300 V (CM)

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)	2.2 in (56 mm)

Max. Pull Tension:	40 lbs (18 kg)
Bulk Cable Weight:	21 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Indoor, Indoor
Sustainability:	Product Lens™, Environmental Product Declaration (EPD) Available
Flammability / Reaction to Fire:	UL 1685 (UL 1581) Vertical Tray, FT1
NEC / UL Compliance:	Article 800, CM
CEC / C(UL) Compliance:	CM
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 Patch
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61156-6
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
APAC Compliance:	China RoHS II (GB/T 26572-2011)

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.
--------	---

History

Update and Revision:	Revision Number: 0.502 Revision Date: 04-29-2024
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
1752A 0101000	Black	Reel	1,000 ft	612825122210	C
1752A 010U1000	Black	UnReel	1,000 ft	612825122203	
1752A 0061000	Blue	Reel	1,000 ft	612825122173	C
1752A 006U1000	Blue	UnReel	1,000 ft	612825122166	
1752A F2V1000	Gray	Reel	1,000 ft	612825122074	C
1752A F2VU1000	Gray	UnReel	1,000 ft	612825122067	
1752A 0051000	Green	Reel	1,000 ft	612825122159	C
1752A 005U1000	Green	UnReel	1,000 ft	612825122142	
1752A 0031000	Orange	Reel	1,000 ft	612825122111	C

1752A 003U1000	Orange	UnReel	1,000 ft	612825122104	
1752A 007U1000	Purple	UnReel	1,000 ft	612825122180	
1752A 0021000	Red	Reel	1,000 ft	612825122098	C
1752A 002U1000	Red	UnReel	1,000 ft	612825122081	
1752A 0041000	Yellow	Reel	1,000 ft	612825122135	C
1752A 004U1000	Yellow	UnReel	1,000 ft	612825122128	

© 2024 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.