



Product: [7883A](#) 

CAT6 Patch, 4pr, UTP, PVC Jkt, CMR

Product Description

CAT6 (250MHz), 4-Pair, U/UTP-unshielded, Riser-CMR, Premise Patch cable, 24 AWG solid bare copper conductors, polyolefin insulation, central filler, PVC jacket, RG-45 compatible

Technical Specifications

Product Overview

Suitable Applications:	Premise Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM
------------------------	--

Construction Details

Conductor

Size	Stranding	Material	No. of Pairs
24	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

Separator	Material	Nom. Diameter	Ripcord
Central Filler	PVC - Polyvinyl Chloride	0.205 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Capacitance Unbalance
93.8 Ohm/km (28.6 Ohm/1000ft)	160 pF/100m

Delay

Frequency	Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
100 MHz	537.6 ns/100m	45 ns/100m	70%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	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	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.4	74.3	72.3	67.8	64.8	20.0	100 ± 15 Ohm	100 ± 15 Ohm	40.0	35.0
4	4.5	65.3	63.3	55.8	52.7	23.0	100 ± 15 Ohm	100 ± 15 Ohm	40.0	23.0
8	6.4	60.8	58.8	49.7	46.7	24.5	100 ± 15 Ohm	100 ± 15 Ohm	40.0	16.9
10	7.1	59.3	57.3	47.8	44.8	25.0	100 ± 15 Ohm	100 ± 15 Ohm	40.0	15.0
16	9.1	56.2	54.3	43.7	40.7	25.0	100 ± 15 Ohm	100 ± 15 Ohm	38.0	10.9
20	10.2	54.8	52.8	41.8	38.8	25.0	100 ± 15 Ohm	100 ± 15 Ohm	37.0	9.0
25	11.4	53.3	51.3	39.8	36.8	24.3	100 ± 15 Ohm	100 ± 15 Ohm	36.0	7.0
31.25	12.8	51.9	49.9	37.9	34.9	23.6	100 ± 15 Ohm	100 ± 15 Ohm	35.1	5.1
62.5	18.5	47.4	45.4	31.9	28.9	21.5	100 ± 15 Ohm	100 ± 15 Ohm	32.0	
100	23.8	44.3	42.3	27.8	24.8	20.1	100 ± 15 Ohm	100 ± 15 Ohm	30.0	
155	30.2	41.5	39.5	23.9	20.9	18.8	100 ± 22 Ohm	100 ± 15 Ohm	28.1	

200	34.8	39.8	37.8	21.8	18.8	18.0	100 ± 22 Ohm	100 ± 15 Ohm	27.0	
250	39.4	38.3	36.3	19.8	16.8	17.3	100 ± 32 Ohm	100 ± 15 Ohm	26.0	

Voltage

UL Voltage Rating
300 V RMS

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:	20 lbs/1000ft (30 kg/km)

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
NEC / UL Compliance:	CMR
CEC / C(UL) Compliance:	CMR
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3, Type 4
Data Category:	Category 6
TIA/EIA Compliance:	ANSI/TIA-568-C.2 Category 6 Patch
Third Party Performance Verification:	Category 6 Patch
ISO/IEC Compliance:	11801 ed 2.2 (2011) Class E Patch
CENELEC Compliance:	Segregation class according EN50174-2 = a
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2017-07-10
UK Regulation Compliance:	UKCA Mark
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.
--------	--

History

Update and Revision:	Revision Number: 0.517 Revision Date: 09-07-2025
----------------------	--

Part Numbers

Variants

Item #	Color	Putup Type	Length	UPC	Footnote
7883A 0101000	Black	Reel	1,000 ft	612825190660	C
7883A 0101000	Black	Reel	1,000 ft	612825190660	C
7883A 0061000	Blue	Reel	1,000 ft	612825190639	C
7883A 0061000	Blue	Reel	1,000 ft	612825190639	C
7883A F2V1000	Gray	Reel	1,000 ft	612825190585	C
7883A F2V1000	Gray	Reel	1,000 ft	612825190585	C
7883A 0051000	Green	Reel	1,000 ft	612825190622	C
7883A 0051000	Green	Reel	1,000 ft	612825190622	C
7883A 0031000	Orange	Reel	1,000 ft	612825190608	C
7883A 0031000	Orange	Reel	1,000 ft	612825190608	C
7883A 0071000	Purple	Reel	1,000 ft	612825190646	C
7883A 0071000	Purple	Reel	1,000 ft	612825190646	C
7883A 0021000	Red	Reel	1,000 ft	612825190592	C
7883A 0021000	Red	Reel	1,000 ft	612825190592	C

7883A 0091000	White	Reel	1,000 ft	612825190653	C
7883A 0091000	White	Reel	1,000 ft	612825190653	C
7883A 0041000	Yellow	Reel	1,000 ft	612825190615	C
7883A 0041000	Yellow	Reel	1,000 ft	612825190615	C

Footnote:	C - CRATE REEL PUT-UP.
-----------	------------------------

© 2026 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.