

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
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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.
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History

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

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