

7883A Multi-Conductor - Category 6 Nonbonded-Pair Patch Cable

For more Information
please call

1-800-Belden1



Description:

Cat 6 Patch Cable, 24 AWG Solid Bare Copper Conductors, Twisted Pairs, Non-Plenum, Polyolefin Insulation, Central Filler, RG-45 Compatible, PVC Jacket.

Usage (Overall)

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

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Outer Jacket Diameter:

Nom. Dia. (mm)
5.207

Outer Jacket Ripcord: Yes

Overall Cabling

Overall Cabling Separator Material: Central Filler Member

Overall Nominal Diameter: 5.207 mm

Pair

Pair Color Code Chart:

Number	Color
1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown



Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 40.181 Kg/Km

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Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius (Install)/Minor Axis: 19.050 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMR
CEC/C(UL) Specification:	CMR
Other Standards:	ISO/IEC 11801 ed 2.1 (2008) Class E
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Telecommunications Standards:	Category 6 - TIA 568.C.2
Other Specification:	UL Verified to Category 6 Patch

Flame Test

UL Flame Test:	UL1666 Vertical Riser
C(UL) Flame Test:	FT4
CSA Flame Test:	FT4
IEEE Flame Test:	1202

Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No

Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)

49.215

Maximum Capacitance Unbalance (pF/100 m): 330

Nominal Velocity of Propagation:

VP (%)

70

Maximum Delay:

Delay (ns/100 m)

537 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)

45

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

9.38

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Max. Operating Voltage - UL:

Voltage
300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
5

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2.4	74.3	72.3	71.9	69.9	20.0	na
4	4.5	65.3	63.3	60.7	58.7	23.0	na
8	6.4	60.8	58.8	54.4	52.4	24.5	na
10	7.1	59.3	57.3	52.2	50.2	25.0	na
16	9.1	56.2	54.3	47.2	45.2	25.0	na
20	10.2	54.8	52.8	44.6	42.6	25.0	na
25	11.4	53.3	51.3	41.9	39.9	24.3	na
31.25	12.8	51.9	49.9	39.1	37.1	23.6	na
62.5	18.5	47.4	45.4	28.9	26.9	21.5	na
100	23.8	44.3	42.3	20.5	18.5	20.1	na
155	30.2	41.5	39.5	11.3	9.3	18.8	na
200	34.8	39.8	37.8	5.0	3.0	18.0	na
250	39.4	38.3	36.3			17.3	na

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	67.8	64.8
4	100 ± 15	100 ± 15	55.8	52.7
8	100 ± 15	100 ± 15	49.7	46.7
10	100 ± 15	100 ± 15	47.8	44.8
16	100 ± 15	100 ± 15	43.7	40.7
20	100 ± 15	100 ± 15	41.8	38.8
25	100 ± 15	100 ± 15	39.8	36.8
31.25	100 ± 15	100 ± 15	37.9	34.9
62.5	100 ± 15	100 ± 15	31.9	28.9
100	100 ± 15	100 ± 15	27.8	24.8
155	100 ± 22	100 ± 15	23.9	20.9
200	100 ± 22	100 ± 15	21.8	18.8
250	100 ± 32	100 ± 15	19.8	16.8

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to ANSI/TIA-568-C.2, Category 6 Patch RJ-45 compatible for either 568 A & B configurations

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7883A F2V1000	305 MT	10.886 KG	GRAY, DEC	C	CAT6 PATCH U/UTP CMR REEL
7883A 0021000	305 MT	10.886 KG	RED	C	CAT6 PATCH U/UTP CMR REEL
7883A 0031000	305 MT	10.886 KG	ORANGE	C	CAT6 PATCH U/UTP CMR REEL
7883A 0041000	305 MT	10.886 KG	YELLOW	C	CAT6 PATCH U/UTP CMR REEL
7883A 0051000	305 MT	10.886 KG	GREEN, DARK	C	CAT6 PATCH U/UTP CMR REEL
7883A 0061000	305 MT	10.886 KG	BLUE, LIGHT	C	CAT6 PATCH U/UTP CMR REEL
7883A 0071000	305 MT	10.886 KG	VIOLET	C	CAT6 PATCH U/UTP CMR REEL
7883A 0091000	305 MT	10.886 KG	WHITE	C	CAT6 PATCH U/UTP CMR REEL
7883A 0101000	305 MT	10.886 KG	BLACK	C	CAT6 PATCH U/UTP CMR REEL

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Notes:

C = CRATE REEL PUT-UP.

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