ENGLISH MEASUREMENT VERSION



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



For more Information please call

1-800-Belden1



General 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

Total Number of Conductors: 8

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. (in.) 0.205

Outer Jacket Ripcord: Yes

Overall Cable

Overall Cabling Separator Material: Central Filler Member

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:	27 lbs/1000 ft.

Page 1 of 4 12-30-2012





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

Max. Recommended Pulling Tension:	40 lbs.
Min. Bend Radius/Minor Axis:	1 in.
Min. Bend/Installation:	2 in.

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				

No

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:



Plenum/Non-Plenum Plenum (Y/N):

> 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)

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

Page 2 of 4





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

9.38

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

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7883A F2V1000	1,000 FT	24.000 LB	GRAY, DEC	С	CAT6 PATCH U/UTP CMR REEL
7883A 0021000	1,000 FT	24.000 LB	RED	С	CAT6 PATCH U/UTP CMR REEL
7883A 0031000	1,000 FT	24.000 LB	ORANGE	С	CAT6 PATCH U/UTP CMR REEL
7883A 0041000	1,000 FT	24.000 LB	YELLOW	С	CAT6 PATCH U/UTP CMR REEL
7883A 0051000	1,000 FT	24.000 LB	GREEN, DARK	С	CAT6 PATCH U/UTP CMR REEL
7883A 0061000	1,000 FT	24.000 LB	BLUE, LIGHT	С	CAT6 PATCH U/UTP CMR REEL
7883A 0071000	1,000 FT	24.000 LB	VIOLET	С	CAT6 PATCH U/UTP CMR REEL
7883A 0091000	1,000 FT	24.000 LB	WHITE	С	CAT6 PATCH U/UTP CMR REEL
7883A 0101000	1,000 FT	24.000 LB	BLACK	С	CAT6 PATCH U/UTP CMR REEL

Notes

C = CRATE REEL PUT-UP.

Page 3 of 4 12-30-2012

ENGLISH MEASUREMENT VERSION



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Test Reports

i) UL Test Reports are available on-line through the UL Client Document Access web portal.
ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

* other test data may be available if requested at time of order.

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Page 4 of 4