

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



For more Information please call

1-800-Belden1



General 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

Usage (Overall)					
Suitable Applications:	Premise Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM				
Physical Characteristics (Overall)					
WG: # 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 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 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:	40.181 Kg/Km				
Max. Recommended Pulling Tension:	177.928 N				
Min. Bend Radius/Minor Axis:	25.400 mm				
Min. Bend/Installation:	50.800 mm				
Applicable Specifications and Agency Compliance (Ov	verall)				
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CMR				
CEC/C(UL) Specification:	CMR				

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

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EU Directive 2011/65/EU (ROHS II):	Yes
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
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
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	
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

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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.

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