

7883A Multi-Conductor - Enhanced Category 6 Cable



For more Information
please call

1-800-Belden1



Description:

Patch cables, 24 AWG solid BC conductors, twisted pairs, non-plenum, polyolefin insulation, central slit-film 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 Ripcord: Yes

Overall Cabling

Overall Cabling Fillers: Slit Film

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: 40.926 Kg/Km

Max. Recommended Pulling Tension: 177.928 N

Min. Bend Radius (Install)/Minor Axis: 12.700 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
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:	ANSI/TIA/EIA-568-B.2-1 Cat 6 Patch
Other Specification:	UL Verified to Category 6

Flame Test

UL Flame Test:	UL1685 UL Loading
CSA Flame Test:	FT1

Plenum/Non-Plenum

Plenum (Y/N):	No
---------------	----

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/m)	49.215
--------------------	--------

Nominal Velocity of Propagation:

VP (%)	70
--------	----

Maximum Capacitance Unbalance (pF/100 m): 330

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

7883A Multi-Conductor - Enhanced Category 6 Cable

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 TIA/EIA-568-B.2-1, Category 6 Patch

Notes (Cont'd.): RJ-45 compatible for either 568 A & B configurations

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
7883A F2V1000	305 MT	10.886 KG	GRAY, DEC	C	4 PR #24 PP PVC
7883A 0021000	305 MT	10.886 KG	RED	C	4 PR #24 PP PVC
7883A 0031000	305 MT	10.886 KG	ORANGE	C	4 PR #24 PP PVC
7883A 0041000	305 MT	10.886 KG	YELLOW	C	4 PR #24 PP PVC
7883A 0051000	305 MT	10.886 KG	GREEN, DARK	C	4 PR #24 PP PVC
7883A 0061000	305 MT	10.886 KG	BLUE, LIGHT	C	4 PR #24 PP PVC
7883A 0071000	305 MT	10.886 KG	VIOLET	C	4 PR #24 PP PVC
7883A 0091000	305 MT	10.886 KG	WHITE	C	4 PR #24 PP PVC
7883A 0101000	305 MT	10.886 KG	BLACK	C	4 PR #24 PP PVC

Notes:
C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 03-07-2008

© 2008 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and

7883A Multi-Conductor - Enhanced Category 6 Cable

the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure 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. This 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. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.