

**7883A Paired - Category 6 Unbonded Pair-Cable**

 	<p>For more information please call <b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> <p><b>Related Documents : No. 8 for DataTwist Cables (Modified Western Electric).pdf</b></p>
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**Description:**

Patch cables, 24 AWG solid BC conductors, twisted pairs, non-plenum, polyolefin insulation, central slit-film filler, RG-45 compatible, see color code chart (below), PVC jacket (red, orange, yellow, green, blue, purple, gray, white or black).

**SUITABLE APPLICATIONS:**

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

**CONDUCTOR:**

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

**INSULATION:**

Insulation Material	PO - Polyolefin
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Pair Color Code Chart :

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

**OVERALL CABLING:**

Overall Cabling Fillers	Slit Film
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**OUTER SHIELD:**

Outer Shield Material	Unshielded
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**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	Yes

**OVERALL NOMINAL DIAMETER:**

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Overall Nominal Diameter	.205 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	27.5 lbs/1000 ft.
Max. Recommended Pulling Tension	40 lbs.
Min. Bend Radius (Install)	0.5 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
TIA/EIA Specification	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)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	330 pF/100 m
Nominal Velocity of Propagation	70 %
Maximum Delay (ns/100 m)	537 @ 100MHz ns/100 m
Maximum Delay Skew (ns/100m)	45 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9.38 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	5 %
Max. Operating Voltage - UL	300 V RMS

**ELECTRICAL CHARACTERISTICS - PREMISE:**

Premise Cable Electricals Table 1 :	
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Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (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 Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	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:

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	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7883A 0021000	4 PR #24 PP PVC	1000	24	RED	C
7883A 0031000	4 PR #24 PP PVC	1000	24	ORANGE	C
7883A 0041000	4 PR #24 PP PVC	1000	24	YELLOW	C

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7883A 0051000	4 PR #24 PP PVC	1000	24	GREEN, DARK	C
7883A 0061000	4 PR #24 PP PVC	1000	24	BLUE, LIGHT	C
7883A 0071000	4 PR #24 PP PVC	1000	24	VIOLET	C
7883A 0091000	4 PR #24 PP PVC	1000	24	WHITE	C
7883A 0101000	4 PR #24 PP PVC	1000	24	BLACK	C
7883A F2V1000	4 PR #24 PP PVC	1000	24	GRAY, DEC	C

C = CRATE REEL PUT-UP.

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