

## 7882A Paired - CCTV Fixed and PTZ Applications

 	<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:

23 AWG solid bare copper conductors, FEP insulation, Flamarrest® jacket with ripcord, sequential footage marking every two feet.

### SUITABLE APPLICATIONS:

Suitable Applications Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155 ATM, 622 ATM, 250MHz Category 6

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	23
Stranding	Solid
Conductor Material	BC - Bare Copper

#### INSULATION:

Insulation Material FRPO/FEP - Flame Retardant Polyolefin/Fluorinated Ethylene Propylene

#### Pair Color Code Chart :

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

### OVERALL CABLING:

Overall Cabling Fillers Rod Center Member

### OUTER SHIELD:

Outer Shield Material Unshielded

### OUTER JACKET:

Outer Jacket Material Trade Name Flamarrest®  
 Outer Jacket Material LS PVC - Low Smoke Polyvinyl Chloride  
 Outer Jacket Ripcord Yes

### OVERALL NOMINAL DIAMETER:

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Overall Nominal Diameter	.224 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	28 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	CMP, UL444
CEC/C(UL) Specification	CMP
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
TIA/EIA Specification	568-B.2-1 Category 6
Other Specification	UL Verified to Category 6

**FLAME TEST:**

UL Flame Test	NFPA 262
CSA Flame Test	FT6

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	Y
Non-Plenum Number	7881A

**ELECTRICAL CHARACTERISTICS:**

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	330 pF/100 m
Nominal Velocity of Propagation	72 %
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	8.2 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	2.0	74.3	72.3	72.3	70.3	20.0	na
4	3.8	65.3	63.3	61.5	59.5	23.0	na
8	5.3	60.8	58.8	55.4	53.4	24.5	na
10	6.0	59.3	57.3	53.3	51.3	25.0	na
16	7.6	56.2	54.3	48.7	46.7	25.0	na
20	8.5	54.8	52.8	46.3	44.3	25.0	na
25	9.5	53.3	51.3	43.8	41.8	24.3	na
31.25	10.7	51.9	49.9	41.2	39.2	23.6	na
62.5	15.4	47.4	45.4	32.0	30.0	21.5	na
100	19.8	44.3	42.3	24.5	22.5	20.1	na
155	25.2	41.5	39.5	16.3	14.3	18.8	na
200	29.0	39.8	37.8	10.8	8.8	18.0	na
250	32.8	38.3	36.3	5.5	3.5	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.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7882A 0021000	4 PR #23 FEP FLRST	1000	29	RED	C
7882A 002A1000	4 PR #23 FEP FLRST	A1000	32	RED	
7882A 0031000	4 PR #23 FEP FLRST	1000	29	ORANGE	C
7882A 003A1000	4 PR #23 FEP FLRST	A1000	32	ORANGE	

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7882A 0041000	4 PR #23 FEP FLRST	1000	29	YELLOW	C
7882A 004A1000	4 PR #23 FEP FLRST	A1000	32	YELLOW	
7882A 0051000	4 PR #23 FEP FLRST	1000	29	GREEN, DARK	C
7882A 005A1000	4 PR #23 FEP FLRST	A1000	32	GREEN, DARK	
7882A 0071000	4 PR #23 FEP FLRST	1000	29	VIOLET	C
7882A 007A1000	4 PR #23 FEP FLRST	A1000	32	VIOLET	
7882A 0081000	4 PR #23 FEP FLRST	1000	29	GRAY	C
7882A 008A1000	4 PR #23 FEP FLRST	A1000	32	GRAY	
7882A 0091000	4 PR #23 FEP FLRST	1000	29	WHITE	C
7882A 009A1000	4 PR #23 FEP FLRST	A1000	32	WHITE	
7882A 0101000	4 PR #23 FEP FLRST	1000	29	BLACK	C
7882A 010A1000	4 PR #23 FEP FLRST	A1000	32	BLACK	
7882A 8771000	4 PR #23 FEP FLRST	1000	29	NATURAL	C
7882A 877A1000	4 PR #23 FEP FLRST	A1000	32	NATURAL	
7882A D151000	4 PR #23 FEP FLRST	1000	29	BLUE	C
7882A D15A1000	4 PR #23 FEP FLRST	A1000	32	BLUE	

C = CRATE REEL PUT-UP.

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