




**1585A 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>Color Code Chart : No. 8 for DataTwist Cables (Modified Western Electric).pdf</b></p>
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**Description:**

24 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, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422
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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	FRPO/FEP - Flame Retardant Polyolefin/Fluorinated Ethylene Propylene
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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

**OUTER SHIELD:**

Outer Shield Material	Unshielded
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**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	.195 in.
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### MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	24.4 lbs/1000 ft.
Max. Recommended Pulling Tension	35 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
IEC Specification	11801 Category 5
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	No
TIA/EIA Specification	568-B.2 Category 5e
Other Specification	NEMA WC-63.1 Category 5e, ETL Verified to Category 5e

#### FLAME TEST:

UL Flame Test	NFPA 262
CSA Flame Test	FT4, FT6

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
Non-Plenum Number	1583A, 1583R

### 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)	538 @ 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	3 %
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	65.3	62.3	63.0	60.0	20.0	23.0
4	4.1	56.3	53.3	51.0	49.0	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	41.0	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	11.0	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	15.0	

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	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7

**NOTES:**

Notes

Jacket sequentially marked at 2 ft. intervals. Thrid party verified to TIA/EIA-568-B.2, Category 5e.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1585A 0021000	4 PR #24 FEP FLMRST	1000	24	RED	C
1585A 002U1000	4 PR #24 FEP FLMRST	U1000	23	RED	
1585A 0031000	4 PR #24 FEP FLMRST	1000	24	ORANGE	C
1585A 003U1000	4 PR #24 FEP FLMRST	U1000	23	ORANGE	

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1585A 0041000	4 PR #24 FEP FLMRST	1000	24	YELLOW	C
1585A 004U1000	4 PR #24 FEP FLMRST	U1000	23	YELLOW	
1585A 0051000	4 PR #24 FEP FLMRST	1000	24	GREEN, DARK	C
1585A 005U1000	4 PR #24 FEP FLMRST	U1000	23	GREEN, DARK	
1585A 0081000	4 PR #24 FEP FLMRST	1000	24	GRAY	C
1585A 008U1000	4 PR #24 FEP FLMRST	U1000	23	GRAY	
1585A 0091000	4 PR #24 FEP FLMRST	1000	24	WHITE	C
1585A 009U1000	4 PR #24 FEP FLMRST	U1000	23	WHITE	
1585A 0101000	4 PR #24 FEP FLMRST	1000	24	BLACK	C
1585A 010U1000	4 PR #24 FEP FLMRST	U1000	23	BLACK	
1585A 0121000	4 PR #24 FEP FLMRST	1000	24	PINK	C
1585A 012U1000	4 PR #24 FEP FLMRST	U1000	23	PINK	
1585A 8771000	4 PR #24 FEP FLMRST	1000	24	NATURAL	C
1585A 8773000	4 PR #24 FEP FLMRST	3000	69	NATURAL	C
1585A 877U1000	4 PR #24 FEP FLMRST	U1000	23	NATURAL	
1585A D151000	4 PR #24 FEP FLMRST	1000	24	BLUE	C
1585A D153000	4 PR #24 FEP FLMRST	3000	69	BLUE	C
1585A D15U1000	4 PR #24 FEP FLMRST	U1000	23	BLUE	

C = CRATE REEL PUT-UP.

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