



**7997A Paired - DataTwist® Category 5e Outdoor**

	<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:**

4 pair UTP, 24 AWG solid bare copper conductors, polyolefin insulation, gel-filled, polyethylene jacket, Sequential marking at two foot intervals.

**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, 200MHz Category 5e, Outside Plant, Duct
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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 & 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	PE - Polyethylene
Outer Jacket Ripcord	No

**OVERALL NOMINAL DIAMETER:**



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Overall Nominal Diameter	.251 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-40°C To +60°C
Bulk Cable Weight	31 lbs/1000 ft.
Max. Recommended Pulling Tension	35 lbs.
Min. Bend Radius (Install)	2.5 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

IEC Specification	Exceeds 11801 Category 5
TIA/EIA Specification	Exceeds 568-B.2 Category 5e

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
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**ELECTRICAL CHARACTERISTICS:**

Nom. Mutual Capacitance @ 1 KHz	14 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	66 pF/100 m
Nominal Velocity of Propagation	65 %
Maximum Delay Skew (ns/100m)	25 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	8.9 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	70.3	68.3	70.3	66.3	20.0	
4	4.0	61.3	59.3	59.3	55.3	23.0	
8	5.7	56.8	54.8	53.1	49.1	24.5	
10	6.4	55.3	53.3	50.9	46.9	25.0	
16	8.1	52.2	50.2	46.1	42.1	25.0	
20	9.1	50.8	48.8	43.7	39.7	25.0	
25	10.2	49.3	47.3	41.1	37.1	24.3	
31.25	11.4	47.9	45.9	38.5	34.5	23.6	
62.5	16.4	43.4	41.4	29.0	25.0	21.5	
100	21.0	40.3	38.3	21.3	17.3	20.1	
155	26.6	37.4	35.4	12.9	8.9	18.8	
200	30.5	35.8	33.8	7.3	3.3	18.0	
*350	41.4	32.1	30.1			16.3	
*400	44.6	31.3	29.3			15.9	

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	52.8
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	24.0	21.0
200	100 ± 22	100 ± 15	21.8	18.8
*350	100 ± 22	100 ± 15		
*400	100 ± 22	100 ± 15		

**NOTES:**

Notes

\* Frequencies above 200 MHz are for reference only

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
7997A 0101000	4 PR #24 PO PE	1000	34504.002	BLACK	C

C = CRATE REEL PUT-UP.



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