

Detailed Specifications & Technical Data



1701S6 Paired - DataTwist® 350 Enhanced Category 5e

 <p style="font-size: 2em; margin-top: 20px;">DataTwist 350</p>	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : No. 8 for DataTwist Cables (Modified Western Electric).pdf</p>
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Description:

Banana Peel® banded 6-pack, 4 pair UTP, 350MHz Enhanced Category 5e, 24 AWG solid bare copper conductor, FEP insulation, bonded pairs, PVC Flamarrest® jacket, rip cord. Sequential marking at two foot intervals on Leg# 1.

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, Noisy Environments
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	24
Total Number of Conductors	48
AWG	24
Stranding	Solid
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	FEP - 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

INNER JACKET:

Inner Jacket Material Trade Name	Flamarrest®
Inner Jacket Material	LS PVC - Low Smoke Polyvinyl Chloride
Inner Jacket Diameter	.193 in.

OVERALL CABLING:

Overall Cabling Fillers	Spline
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OUTER SHIELD:

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Outer Shield Material	Unshielded
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OUTER JACKET:

Outer Jacket Material	Unjacketed
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.600 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
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Bulk Cable Weight	148 lbs/1000 ft.
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Max. Recommended Pulling Tension	240 lbs.
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Min. Bend Radius (Install)	0.6 in.
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APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
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CEC/C(UL) Specification	CMP
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IEC Specification	Individual Leg: ISO11801 Category 5
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TIA/EIA Specification	Individual Leg: ANSI/TIA/EIA-568-B.2 Category 5e
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Other Specification	Individual Leg: NEMA WC-63.1 Category 5e, UL Verified to Category 5e
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FLAME TEST:

UL Flame Test	UL910 Plenum
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CSA Flame Test	FT6
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PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
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Non-Plenum Number	1700S6
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ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
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Maximum Capacitance Unbalance (pF/100 m)	66 pF/100 m
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Nominal Velocity of Propagation	72 %
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Maximum Delay (ns/100 m)	510 ns/100 m
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Maximum Delay Skew (ns/100m)	25 ns/100 m
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Maximum Conductor DC Resistance @ 20 Deg. C	9 Ohms/100 m
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Maximum DCR Unbalance @ 20 Deg. C	3 %
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Max. Operating Voltage - UL	300 V RMS
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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	65.3	63.3	63.3	20.0	
4	4.0	56.3	56.3	52.3	52.3	23.0	
8	5.7	51.8	51.8	46.1	46.1	24.5	
10	6.4	50.3	50.3	43.9	43.9	25.0	
16	8.1	47.3	47.3	39.1	39.1	25.0	
20	9.2	45.8	45.8	35.2	35.2	25.0	
25	10.3	44.3	44.3	34.1	34.1	24.3	
31.25	11.6	42.9	42.9	31.3	31.3	23.6	
62.5	16.8	38.4	38.4	21.6	21.6	21.5	
100	21.7	35.3	35.3	17.1	17.1	20.1	
155	27.7	32.5	32.5	4.7	4.7	19.0	
200	32.0	30.8	30.8	3.0	3.0	19.0	
250	36.4	29.3	29.3	>0	>0	18.0	
300	40.5	28.2	28.2			18.0	
310	41.3	27.9	27.9			18.0	
350	44.3	27.2	27.2			17.0	

Premise Cable Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.7
8	100 ± 12	100 ± 10	45.7	42.7
10	100 ± 12	100 ± 10	43.8	40.8
16	100 ± 12	100 ± 10	39.7	36.7
20	100 ± 12	100 ± 10	37.7	34.7
25	100 ± 15	100 ± 10	35.8	32.8
31.25	100 ± 15	100 ± 10	33.9	30.9
62.5	100 ± 15	100 ± 10	27.8	24.8
100	100 ± 15	100 ± 10	23.8	20.8
155	100 ± 18	100 ± 10	19.9	16.9
200	100 ± 20	100 ± 10	17.7	14.7
250	100 ± 20	100 ± 10	15.8	12.8
300	100 ± 20	100 ± 10	14.2	11.2
310	100 ± 20	100 ± 10	13.9	10.9
350	100 ± 22	100 ± 10	12.9	9.9

NOTES:

Notes US Patent #'s 5, 606, 151; 5, 734, 126; Banana Peel® patent pending.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
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1701S6 8771000	BONDED FILLER COMPOSITE	1000	157	NATURAL	C
1701S6 877500	BONDED FILLER COMPOSITE	500	81.5	NATURAL	C
1701S6 D151000	BONDED FILLER COMPOSITE	1000	157	BLUE	C
1701S6 D15500	BONDED FILLER COMPOSITE	500	81.5	BLUE	C

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 06-18-2004

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