

## 1701S6 Multi-Conductor - Banana Peel® Jacketless Cables

DataTwist 350



For more Information  
please call

1-800-Belden1



### Description:

24 AWG bonded-pairs, solid bare copper conductors, plenum, FEP insulation, rip cord, riser, see color code chart (below), Flam arrest® inner jacket (natural), no overall jacket.

### Usage (Overall)

**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

### Physical Characteristics (Overall)

#### Conductor

**AWG:**

# Pairs	AWG	Stranding	Conductor Material
24	24	Solid	BC - Bare Copper

#### Insulation

**Insulation Material:**

Insulation Material
FEP - Fluorinated Ethylene Propylene

#### Inner Jacket

**Inner Jacket Material:**

Inner Jacket Trade Name	Inner Jacket Material	Nom. Dia. (in.)
Flam arrest®	LS PVC - Low Smoke Polyvinyl Chloride	.195

#### Outer Shield

**Outer Shield Material:**

Outer Shield Material
Unshielded

#### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
Unjacketed

#### Overall Cable

**Overall Cabling Fillers:**

Spline

**Overall Cabling Color Code Chart:**

Color
1/ONE
2/TWO
3/THREE
4/FOUR
5/FIVE
6/SIX

**Overall Nominal Diameter:**

0.600 in.

#### Pair

**Pair Color Code Chart:**

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

### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-20°C To +75°C
<b>Bulk Cable Weight:</b>	148 lbs/1000 ft.
<b>Max. Recommended Pulling Tension:</b>	240 lbs.
<b>Min. Bend Radius (Install)/Minor Axis:</b>	0.600 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMP
<b>CEC/C(UL) Specification:</b>	CMP
<b>Other Standards:</b>	Individual Leg: ISO11801 Category 5
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	01/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes
<b>CA Prop 65 (CJ for Wire &amp; Cable):</b>	Yes
<b>MII Order #39 (China RoHS):</b>	Yes
<b>Telecommunications Standards:</b>	Individual Leg: ANSI/TIA/EIA-568-B.2 Category 5e
<b>Other Specification:</b>	Individual Leg: NEMA WC-63.1 Category 5e, UL Verified to Category 5e

#### Flame Test

<b>UL Flame Test:</b>	NFPA 262
<b>CSA Flame Test:</b>	FT6

#### Plenum/Non-Plenum

<b>Plenum (Y/N):</b>	Yes
<b>Non-Plenum Number:</b>	1700S6

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)

15

**Maximum Capacitance Unbalance (pF/100 m):** 66

#### Nominal Velocity of Propagation:

VP (%)

72

#### Maximum Delay:

Delay (ns/100 m)

510

#### Max. Delay Skew:

Delay Skew (ns/100 m)

25

#### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

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### Max. Operating Voltage - UL:

**Voltage**  
300 V RMS

### Maximum DCR Unbalanced:

**DCR Unbalance @ 20°C (%)**  
3

## Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (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 Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.8	60.8
4	100 ± 12	100 ± 10	51.7	48.8
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	24.9
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 (Overall)

**Notes:** Belden IBDN. Bundled version of 1701A. Jacket sequentially marked at 2 ft. intervals. US Patent #'s 5, 606, 151; 5, 734, 126; Banana Peel® US Patent 7049523. Individual Legs third party verified to TIA/EIA-568-B.2, Category 5e.

### Related Documents:

No related documents are available for this product

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1701S6 D15X	1 FT	0.156 LB	BLUE	C	CAT5E+ BANANA PEEL 6X CMP
1701S6 D151000	1,000 FT	156.000 LB	BLUE	C	CAT5E+ BANANA PEEL 6X CMP REEL

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1701S6 D15500	500 FT	81.500 LB	BLUE	C	CAT5E+ BANANA PEEL 6X CMP REEL
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**Notes:**

C = CRATE REEL PUT-UP.

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