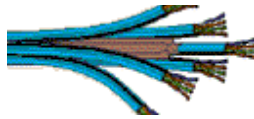


## 1701S6 Multi-Conductor - Banana Peel® Jacketless Cables

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), Flammarrest® 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.)
Flammarrest®	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
--------	-------

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

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

### Mechanical Characteristics (Overall)

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

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

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

#### Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

#### Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	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)	
------------------------	--

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

9

**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.

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

**Notes:**  
C = CRATE REEL PUT-UP.

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

Revision Number: 1    Revision Date: 05-14-2007

© 2012 Belden, Inc.  
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.