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please call

1-800-Belden1



## General Description:

28.5 AWG solid .012" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® foil + tinned copper braid shield (95% coverage), PVC jacket.

## Usage (Overall)

**Suitable Applications:** Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications

## Physical Characteristics (Overall)

### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	28.5	Solid	BC - Bare Copper	0.30988

**Total Number of Conductors:** 1

### Insulation

**Insulation Material:**

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	1.4224

### Outer Shield

**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	95

### Outer Jacket

**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

### Overall Cable

**Overall Nominal Diameter:** 2.540 mm

## Mechanical Characteristics (Overall)

**Operating Temperature Range:** -20°C To +75°C

**UL Temperature Rating:** 75°C

**Bulk Cable Weight:** 11.906 Kg/Km

**Max. Recommended Pulling Tension:** 66.723 N

**Min. Bend Radius/Minor Axis:** 25.400 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

**NEC/(UL) Specification:** CMR

**CEC/C(UL) Specification:** CMG

**EU Directive 2011/65/EU (ROHS II):** Yes

**EU CE Mark:** Yes

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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
RG Type:	179/U

### Flame Test

UL Flame Test:	UL1666 Vertical Shaft
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	No
Suitability - Aerial:	No

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)
75

### Nom. Inductance:

Inductance (µH/m)
0.347786

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
57.0894

### Nominal Velocity of Propagation:

VP (%)
77

### Nominal Delay:

Delay (ns/m)
4.33092

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
354.348

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
29.2009

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	3.872
5.000	6.070
6.000	6.529
7.000	7.054
10.000	7.842
12.000	12.566
67.500	19.325
71.500	19.620
88.500	21.687

100.000	22.606
135.000	25.756
143.000	26.478
180.000	29.299
270.000	35.435
360.000	41.013
540.000	50.527
720.000	58.730
750.000	60.042
1000.000	69.885
1500.000	86.290
2000.000	101.055
2250.000	107.617
3000.000	125.662
4500.000	155.848

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 3 Ohms

**Other Electrical Characteristic 2:** Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1600	4500	21

**Sweep Test**

**Sweep Testing:** 100% Sweep tested 5 MHz to 4.5 GHz.

**Misc. Information (Overall)**

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
179DT N3U1000	305 MT	4.082 KG	GREEN, MIL	C	#28H PE/GIFPE SH PVC
179DT 0011000	305 MT	4.082 KG	BROWN		#28H PE/GIFPE SH PVC
179DT 0021000	305 MT	4.082 KG	RED	C	#28H PE/GIFPE SH PVC
179DT 0031000	305 MT	4.082 KG	ORANGE	C	#28H PE/GIFPE SH PVC
179DT 0041000	305 MT	4.082 KG	YELLOW	C	#28H PE/GIFPE SH PVC
179DT 0061000	305 MT	4.082 KG	BLUE, LIGHT		#28H PE/GIFPE SH PVC
179DT 0071000	305 MT	4.082 KG	VIOLET		#28H PE/GIFPE SH PVC
179DT 0081000	305 MT	4.082 KG	GRAY	C	#28H PE/GIFPE SH PVC
179DT 0091000	305 MT	4.082 KG	WHITE		#28H PE/GIFPE SH PVC
179DT 0101000	305 MT	4.082 KG	BLACK		#28H PE/GIFPE SH PVC
179DT 010500	152 MT	2.041 KG	BLACK		#28H PE/GIFPE SH PVC
179DTBHD1	1 EA	0.015 KG	CHROME, BRIGHT	Q	CONN, LCK, 179 DIGI-/50PK
179DTBHD1	1 EA	0.015 KG	CHROME, BRIGHT	Q	CONN, 1PC, 179 DIGI-/50PK
179DTBHD3	1 EA	0.015 KG	CHROME, BRIGHT	Q	CONN, 3PC, 179 DIGI-/50PK

**Notes:**

C = CRATE REEL PUT-UP.  
Q = STANDARD PACKAGES CANNOT BE BROKEN.

**Test Reports**

**a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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