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please call

1-800-Belden1



Description:

28.5 AWG solid .012" bare copper conductor, gas-injected foam HDPE insulation, Duobond® 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

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 Cabling

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: 10.864 Kg/Km

Max. Recommended Pulling Tension: 66.723 N

Min. Bend Radius (Install)/Minor Axis: 12.700 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

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

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: No

Suitability - Aerial: No

Plenum/Non-Plenum

Plenum (Y/N): No

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	3.87158
5	6.06985
7	7.05415
10	7.84159
67.5	19.3251
71.5	19.6204
88.5	21.6874
100	22.6061
135	25.7558
143	26.4777
180	29.2993
270	35.4348

360	41.0125
540	50.5274
720	58.7299
750	60.0423
1000	69.8853
1500	86.2903
2000	101.055
2250	107.617
3000	125.662
4500	155.848

Max. Operating Voltage - UL:

Voltage
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)

Other Description: Added CMR and CMG to UL section. 3/14/06 added rl requirements. 06/02/06 changed to duofoil tape.

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

Notes:
C = CRATE REEL PUT-UP.

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