

179DT Coax - Sub-Miniature

 	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p>
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Description:

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

SUITABLE APPLICATIONS:

Suitable Applications	Broadcast Mobil Trucks, Digital Video, Precision Video, Telecommunications
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	179/U
AWG	28.5
Stranding	Solid
Conductor Diameter	.0122 in.
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	.056 in.

OUTER SHIELD:

Outer Shield Material Trade Name	Duofoil®
Outer Shield Type	Tape/Braid
Outer Shield Material :	

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

Outer Shield % Coverage	100 %
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.100 in.
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MECHANICAL CHARACTERISTICS:

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Operating Temperature Range	-20°C To +75°C
UL Temperature Rating	75°C
Bulk Cable Weight	7.3 lbs/1000 ft.
Max. Recommended Pulling Tension	15 lbs.
Min. Bend Radius (Install)	0.5 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004

FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft
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SWEEP TEST:

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

Suitability - Indoor	Yes
Suitability - Outdoor	No
Suitability - Aerial	No
Suggested Connectors	BNC Plug: Kings 2065-26-9, Trompeter UPL2000-D24, Canare BCP-C1, Holland SLC-BNC-179DT, ADC BNC31, Bomar HBC179DT

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	75 Ohms
Nom. Inductance	.106 µH/ft
Nom. Capacitance Conductor to Shield	17.4 pF/ft
Nominal Velocity of Propagation	77 %
Nominal Delay	1.32 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	108 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	8.9 Ohms/1000 ft

Minimum Return Loss :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Minimum Return Loss (dB)
		5	1600	23
		1600	4500	21

Nom. Attenuation :

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			1.18
	5			1.85
	7			2.15
	10			2.39
	67.5			5.89
	71.5			5.98
	88.5			6.61
	100			6.89
	135			7.85
	143			8.07
	180			8.93
	270			10.8
	360			12.5
	540			15.4
	720			17.9
	750			18.3
	1000			21.3
	1500			26.3
	2000			30.8
	2250			32.8
	3000			38.3
	4500			47.5

Max. Operating Voltage - UL	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.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
179DT 0011000	#28H PE/GIFPE SH PVC	1000	9	BROWN	
179DT 0021000	#28H PE/GIFPE SH PVC	1000	9	RED	C
179DT 0031000	#28H PE/GIFPE SH PVC	1000	9	ORANGE	C
179DT 0041000	#28H PE/GIFPE SH PVC	1000	9	YELLOW	C
179DT 0061000	#28H PE/GIFPE SH PVC	1000	9	BLUE, LIGHT	
179DT 0071000	#28H PE/GIFPE SH PVC	1000	9	VIOLET	
179DT 0081000	#28H PE/GIFPE SH PVC	1000	9	GRAY	C
179DT 0091000	#28H PE/GIFPE SH PVC	1000	9	WHITE	

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179DT 0101000	#28H PE/GIFPE SH PVC	1000	9	BLACK	
179DT 010500	#28H PE/GIFPE SH PVC	500	5	BLACK	
179DT N3U1000	#28H PE/GIFPE SH PVC	1000	9	GREEN, MIL	C

C = CRATE REEL PUT-UP.

Revision Number: 9 Revision Date: 06-05-2006

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