




179DT Coax - Precision Video Cable for Analog and Digital

	<p>Metric Version 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 .0122" bare copper conductor, gas-injected foam HDPE insulation, lightly bonded aluminum poly aluminum foil tape shield with a 95% tinned copper braid shield, PVC jacket.

SUITABLE APPLICATIONS:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	179/U
AWG	28.5
Stranding	Solid
Conductor Diameter	0.31 mm
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	Gas-injected FHDPE - Foam High Density Polyethylene
Insulation Diameter	1.422 mm

OUTER SHIELD:

Outer Shield Material Trade Name	Duobond®
Outer Shield Type	Tape/Braid

Outer Shield Material :

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

Outer Shield % Coverage 100 %

OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	2.54 mm
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MECHANICAL CHARACTERISTICS:

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)	12.7 mm

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG

FLAME TEST:

UL Flame Test	UL1666 Vertical Shaft
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SWEEP TEST:

Sweep Testing	100% Sweep tested 5 MHz to 3 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	0.348 µH/m
Nom. Capacitance Conductor to Shield	57.089 pF/m
Nominal Velocity of Propagation	77 %
Nominal Delay	4.331 ns/m
Nom. Conductor DC Resistance @ 20 Deg. C	354.348 Ohms/km
Nominal Outer Shield DC Resistance @ 20°C	29.201 Ohms/km
Nom. Attenuation :	



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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100m)
	1			3.872
	5			6.07
	7			7.054
	10			7.842
	67.5			19.325
	71.5			19.62
	88.5			21.687
	100			22.606
	135			25.756
	143			26.478
	180			29.299
	270			35.435
	360			41.012
	540			50.527
	720			58.73
	750			60.042
	1000			69.885
	1500			86.29
	2000			101.055
	2250			107.617
	3000			125.662

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 (M)	Ship Weight (kgs.)	Jacket Color	Notes
179DT 0011000	#28H PE/GIFPE SH PVC	304.8	3.632	BROWN	
179DT 0021000	#28H PE/GIFPE SH PVC	304.8	3.632	RED	C
179DT 0031000	#28H PE/GIFPE SH PVC	304.8	3.632	ORANGE	C
179DT 0041000	#28H PE/GIFPE SH PVC	304.8	3.632	YELLOW	C
179DT 0061000	#28H PE/GIFPE SH PVC	304.8	3.632	BLUE, LIGHT	
179DT 0071000	#28H PE/GIFPE SH PVC	304.8	3.632	VIOLET	
179DT 0081000	#28H PE/GIFPE SH PVC	304.8	3.632	GRAY	C
179DT 0091000	#28H PE/GIFPE SH PVC	304.8	3.632	WHITE	



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179DT 0101000	#28H PE/GIFPE SH PVC	304.8	3.632	BLACK	
179DT 010500	#28H PE/GIFPE SH PVC	152.4	2.27	BLACK	C
179DT N3U1000	#28H PE/GIFPE SH PVC	304.8	3.632	GREEN, MIL	C

C = CRATE REEL PUT-UP.

Revision Number: 6 Revision Date: 03-04-2005

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