

**BELDEN**Cable™

**8259 Coax - 50 Ohm Transmission and Computer Cable**



For more information please  
call  
**1-800-Belden1**

See Put-ups and Colors

**Description:**

20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, 95% tinned copper braid shield, PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

Number of Coax	1
Total Number of Conductors	1
RG Type	58A/U
AWG	20
Stranding	19x33
Conductor Diameter	.035 in.
Conductor Material	TC - Tinned Copper

**INSULATION:**

Insulation Material	PE - Polyethylene
Insulation Diameter	.116 in.

**OUTER SHIELD:**

Outer Shield Type	Braid
Outer Shield Material	TC - Tinned Copper
Outer Shield %Coverage	95 %

**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Nominal Wall Thickness	.0275 in.

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.193 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-40°C To +75°C
Non-UL Temperature Rating	75°C
Bulk Cable Weight	24 lbs/1000 ft.
Max. Recommended Pulling Tension	42 lbs.
Min. Bend Radius (Install)	2 in.



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### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### SUITABILITY:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Suitability - Aerial	Yes - when supported by a messenger wire

#### PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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#### ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	0.092 $\mu$ H/ft
Nom. Capacitance Conductor to Shield	30.8 pF/ft
Nominal Velocity of Propagation	66 %
Nominal Delay	1.54 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	10.8 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20°C	4.1 Ohms/1000 ft

Nom. Attenuation :

Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	1			0.4
	10			1.5
	50			3.7
	100			5.4
	200			8.1
	400			12.4
	700			17.7
	900			21.1
	1000			22.8

Max. Operating Voltage - Non-UL

1900 V RMS

#### PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
8259 010100	RG-58A/U 50 OHMS COAX	100	3.6	BLACK	
8259 0101000	RG-58A/U 50 OHMS COAX	1000	27	BLACK	C
8259 010500	RG-58A/U 50 OHMS COAX	500	14	BLACK	C
8259 010U1000	RG-58A/U 50 OHMS COAX	U1000	27	BLACK	
8259 010U500	RG-58A/U 50 OHMS COAX	U500	14	BLACK	

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C = CRATE REEL PUT-UP.

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