

8281F Coax - Double Braided RG-59/U Type

For more Information
please call

1-800-Belden1

**Description:**

22 AWG stranded (7x29) .031" bare compacted copper conductor, polyethylene insulation, tinned copper/bare copper double braid shield (98% coverage), PVC jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	22	7x29	BCC - Bare Compacted Copper	.031

Insulation**Insulation Material:**

Insulation Material	Dia. (in.)
PE - Polyethylene	.193

Outer Shield**Outer Shield Material:**

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	98
2	Braid	TC - Tinned Copper	98

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.304 in.

Mechanical Characteristics (Overall)

Operating Temperature Range:	-20°C To +60°C
Non-UL Temperature Rating:	60°C
Bulk Cable Weight:	63 lbs/1000 ft.
Max. Recommended Pulling Tension:	168 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.
Min. Flexing Radius:	4.500 in.

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

EU CE Mark:	No
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

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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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RG Type:	59/U
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Suitability

Suitability - Indoor:	Yes
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Electrical Characteristics (Overall)**Nom. Characteristic Impedance:**

Impedance (Ohm)
75

Nom. Inductance:

Inductance (μH/ft)
0.118

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
21

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
12.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
1.7

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	.3
3.6	.5
10.0	.9
71.5	2.5
135	3.6
270	5.1
360	6.0
540	7.4
720	8.7
750	8.9
1000	10.5

Max. Operating Voltage - Non-UL:

Voltage
2900 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.

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 Structural Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. SRL (dB)
5	216	27

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217	830	23
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Sweep Test

Sweep Testing: 100% sweep tested. 5 MHz to 850 MHz.

Notes (Overall)

Notes: Compacted copper combines the Impedance uniformity of solid conductors and the "nick-resistance" of stranded conductors.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8281F G7V1000	1,000 FT	68.000 LB	RED, MATTE	C	#21H PE DBLB PVC
8281F G7W1000	1,000 FT	68.000 LB	GREEN, MATTE	C	#21H PE DBLB PVC
8281F G7X1000	1,000 FT	68.000 LB	BLUE, MATTE	C	#21H PE DBLB PVC
8281F J5C1000	1,000 FT	68.000 LB	BLACK, VIVID MATTE	C	#21H PE DBLB PVC
8281F J5C500	500 FT	35.000 LB	BLACK, VIVID MATTE		#21H PE DBLB PVC
8281F U901000	1,000 FT	68.000 LB	GRAY, MATTE	C	#21H PE DBLB PVC

Notes:

C = CRATE REEL PUT-UP.

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