# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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

For more Information please call

1-800-Belden1



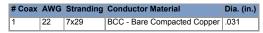
#### **General Description:**

22 AWG stranded (7x29) .031" bare compacted copper conductor, polyethylene insulation, tinned copper/bare copper double braid shield (95% coverage), PVC jacket.

### **Physical Characteristics (Overall)**

## Conductor

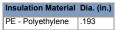
AWG:



Total Number of Conductors:

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

Layer #	Type	Outer Shield Material	Coverage (%)
1	Braid	TC - Tinned Copper	95.000
2	Braid	TC - Tinned Copper	95.000

#### **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:	108 lbs.
Min. Bend Radius/Minor Axis:	3 in.
Min. Flexing Radius:	4.500 in.

### **Applicable Specifications and Agency Compliance (Overall)**

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II):	Yes
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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
RG Type:	59/U

#### Suitability

Suitability - Indoor: Yes

Page 1 of 3 01-05-2017

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Plenum/Non-Plenum				
Plenum (Y/N):	No			
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				
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				
217 830 23				
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.

# **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8281F G7V1000	1,000 FT	65.000 LB	RED, MATTE	С	#21H PE DBLB PVC
8281F G7W1000	1,000 FT	65.000 LB	GREEN, MATTE	С	#21H PE DBLB PVC
8281F G7X1000	1,000 FT	65.000 LB	BLUE, MATTE	С	#21H PE DBLB PVC
8281F J5C1000	1,000 FT	65.000 LB	BLACK, VIVID MATTE	С	#21H PE DBLB PVC
8281F J5C500	500 FT	35.000 LB	BLACK, VIVID MATTE		#21H PE DBLB PVC

Page 2 of 3 01-05-2017

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Notes

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 04-30-2013

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Page 3 of 3