# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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

For more Information please call

1-800-Belden1



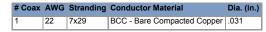
#### **General Description:**

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

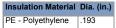
AWG:



Total Number of Conductors:

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:

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

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wechanical	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

Yes
No
Yes
Yes
01/01/2004
Yes
Yes
Yes
Yes
59/U

#### Suitability

Suitability - Indoor: Yes

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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:					
<b>VP (%)</b> 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					
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

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Notes

C = CRATE REEL PUT-UP.

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

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