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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:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	22	7x29	BCC - Bare Compacted Copper	0.7874

Total Number of Conductors: 1

Insulation

Insulation Material:

Insulation Material	Dia. (mm)
PE - Polyethylene	4.9022

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: 7.722 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +60°C

Non-UL Temperature Rating: 60°C

Bulk Cable Weight: 93.757 Kg/Km

Max. Recommended Pulling Tension: 480.406 N

Min. Bend Radius/Minor Axis: 76.200 mm

Min. Flexing Radius: 11.430 cm

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

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

EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MIL Order #39 (China RoHS):	Yes
RG Type:	59/U

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/m)

0.387158

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

68.901

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/m)

5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

40.0282

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.5777

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

1	0.9843
3.6	1.6405
10.0	2.9529
71.5	8.2025
135	11.8116
270	16.7331
360	19.686
540	24.2794
720	28.5447
750	29.2009
1000	34.4505

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	305 MT	29.484 KG	RED, MATTE	C	#21H PE DBLB PVC
8281F G7W1000	305 MT	29.484 KG	GREEN, MATTE	C	#21H PE DBLB PVC
8281F G7X1000	305 MT	29.484 KG	BLUE, MATTE	C	#21H PE DBLB PVC
8281F J5C1000	305 MT	29.484 KG	BLACK, VIVID MATTE	C	#21H PE DBLB PVC
8281F J5C500	152 MT	15.876 KG	BLACK, VIVID MATTE		#21H PE DBLB PVC
8281F U901000	305 MT	29.484 KG	GRAY, MATTE	C	#21H PE DBLB PVC

Notes:
C = CRATE REEL PUT-UP.

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