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1-800-Belden1



## General Description:

22 AWG stranded (7x29) .031" bare compacted copper conductor, gas-injected foam HDPE insulation, tinned 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)
Gas-injected FHDPE - Foam High Density Polyethylene	3.683

### 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: 6.147 mm

## Mechanical Characteristics (Overall)

Operating Temperature Range: -35°C To +75°C

Bulk Cable Weight: 61.016 Kg/Km

Max. Recommended Pulling Tension: 391.442 N

Min. Bend Radius/Minor Axis: 63.500 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2005

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

### Flame Test

UL Flame Test:	UL1685 UL Loading
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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/m)
0.308414

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
55.777

### Nominal Velocity of Propagation:

VP (%)
80

### Nominal Delay:

Delay (ns/m)
4.2653

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
40.0282

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
7.8744

### Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
1.000	0.656
3.600	1.641
5.000	1.969
6.000	2.198
7.000	2.395
10.000	2.953
12.000	3.215
25.000	4.725
67.500	7.874
71.500	8.203
88.500	9.187
100.000	9.843
135.000	11.484
143.000	11.812
180.000	13.452
270.000	16.733
360.000	19.686

540.000	24.608
720.000	29.201
750.000	29.857
1000.000	35.435
1500.000	44.622
2000.000	52.824
2250.000	56.761
3000.000	67.917
4500.000	87.603
6000.000	105.648

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Other Electrical Characteristic 1:** Return Loss: Fixed bridge and termination.

**Minimum Return Loss:**

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	850.000	20.000
850.000	6000.000	15.000

**Sweep Test**

**Sweep Testing:** 5-6000 MHz

**Notes (Overall)**

**Notes:** Print legend includes sequential footage marks.

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1505F B591000	1,000 FT	45.000 LB	BLACK, MATTE	C	#21 GIFHLDPE DBLB PVC
1505F G7V1000	1,000 FT	45.000 LB	RED, MATTE	C	#21 GIFHLDPE DBLB PVC
1505F G7W1000	1,000 FT	45.000 LB	GREEN, MATTE	C	#21 GIFHLDPE DBLB PVC
1505F G7X1000	1,000 FT	45.000 LB	BLUE, MATTE	C	#21 GIFHLDPE DBLB PVC
1505F G7Y1000	1,000 FT	45.000 LB	WHITE, MATTE	C	#21 GIFHLDPE DBLB PVC
1505F G8L1000	1,000 FT	45.000 LB	ORANGE, MATTE	C	#21 GIFHLDPE DBLB PVC
1505F Z4B1000	1,000 FT	45.000 LB	VIO Z4B		#21 GIFHLDPE DBLB PVC
1505F 0041000	1,000 FT	45.000 LB	YELLOW	C	#21 GIFHLDPE DBLB PVC

**Notes:**  
C = CRATE REEL PUT-UP.

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