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1-800-Belden1



### General Description:

23 AWG solid .023" bare copper conductor, gas-injected foam HDPE insulation, Duobond® II plus a tinned copper braid shield (85% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	23	Solid	BC - Bare Copper	0.5842

Total Number of Conductors: 1

#### Insulation

Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FHDPE - Foam High Density Polyethylene	2.5908

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duobond® II	Tape	Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	100.000
2		Braid	TC - Tinned Copper	85.000

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

#### Overall Cable

Overall Nominal Diameter: 4.064 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 23.067 Kg/Km

Max. Recommended Pulling Tension: 160.135 N

Min. Bend Radius/Minor Axis: 38.100 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMR

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): 11/21/2011

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: Sub-miniature 59/U

### Flame Test

UL Flame Test: UL1666 Vertical Shaft

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: No

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 1371P

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

75

### Nom. Inductance:

Inductance (µH/m)

0.348

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.4803

### Nominal Velocity of Propagation:

VP (%)

82

### Nominal Delay:

Delay (ns/m)

4.068

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

65.9481

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

15.093

### Nom. Attenuation:

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

1.000	1.280
3.580	2.559
5.000	3.019
6.000	3.281
7.000	3.543
10.000	3.937
12.000	4.265
25.000	5.906
67.500	9.285
71.500	10.040
88.500	10.368
100.000	10.926
135.000	12.501

METRIC MEASUREMENT VERSION

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143.000	12.862
180.000	14.371
270.000	17.717
360.000	20.342
540.000	25.264
720.000	31.071
750.000	31.465
1000.000	34.451
1500.000	42.653
2000.000	49.543
2250.000	52.496
3000.000	60.699

### Max. Operating Voltage - UL:

Voltage
300 V RMS

**Other Electrical Characteristic 1:** Impedance tested in accordance with ASTM D-4566 paragraph 48.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

**Other Electrical Characteristic 2:** Return loss tested in accordance with ASTM D-4566 paragraph 50.3 using a 75 Ohm fixed bridge and termination.

### Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5.000	3000.000	15.000

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1371R N3U1000	305 MT	7.711 KG	GREEN, MIL		#23 PE/GIFHDLDP SH PVC
1371R N3U500	152 MT	4.082 KG	GREEN, MIL		#23 PE/GIFHDLDP SH PVC
1371R 0011000	305 MT	7.711 KG	BROWN		#23 PE/GIFHDLDP SH PVC
1371R 001500	152 MT	4.082 KG	BROWN		#23 PE/GIFHDLDP SH PVC
1371R 0021000	305 MT	7.711 KG	RED		#23 PE/GIFHDLDP SH PVC
1371R 002500	152 MT	4.082 KG	RED		#23 PE/GIFHDLDP SH PVC
1371R 0031000	305 MT	7.711 KG	ORANGE		#23 PE/GIFHDLDP SH PVC
1371R 003500	152 MT	4.082 KG	ORANGE		#23 PE/GIFHDLDP SH PVC
1371R 0041000	305 MT	7.711 KG	YELLOW		#23 PE/GIFHDLDP SH PVC
1371R 004500	152 MT	4.082 KG	YELLOW		#23 PE/GIFHDLDP SH PVC
1371R 0061000	305 MT	7.711 KG	BLUE, LIGHT		#23 PE/GIFHDLDP SH PVC
1371R 006500	152 MT	4.082 KG	BLUE, LIGHT		#23 PE/GIFHDLDP SH PVC
1371R 0071000	305 MT	7.711 KG	VIOLET		#23 PE/GIFHDLDP SH PVC
1371R 007500	152 MT	4.082 KG	VIOLET		#23 PE/GIFHDLDP SH PVC
1371R 0081000	305 MT	7.711 KG	GRAY		#23 PE/GIFHDLDP SH PVC
1371R 008500	152 MT	4.082 KG	GRAY		#23 PE/GIFHDLDP SH PVC
1371R 0091000	305 MT	7.711 KG	WHITE		#23 PE/GIFHDLDP SH PVC
1371R 009500	152 MT	4.082 KG	WHITE		#23 PE/GIFHDLDP SH PVC
1371R 0101000	305 MT	7.711 KG	BLACK		#23 PE/GIFHDLDP SH PVC
1371R 010500	152 MT	4.082 KG	BLACK		#23 PE/GIFHDLDP SH PVC

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