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1-800-Belden1



## General Description:

RG-8X type, 16 AWG stranded (19x29) .058" bare copper conductor, gas-injected FPE insulation, bare copper braid shield (95% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

#### AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (mm)
1	16	19x29	BC - Bare Copper	1.4732

Total Number of Conductors: 1

### Insulation

#### Insulation Material:

Insulation Material	Dia. (mm)
Gas-injected FPE - Foam Polyethylene	3.937

### Outer Shield

#### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	BC - Bare Copper	95

### 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:	-40°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 1354)
Bulk Cable Weight:	55.063 Kg/Km
Max. Recommended Pulling Tension:	333.615 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
AWM Specification:	UL Style 1354 (30 V 80°C)
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:	8/X

### Flame Test

UL Flame Test:	UL1685 UL Loading
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### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Suitability - Aerial:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
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## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)

50

### Nom. Inductance:

Inductance (µH/m)

0.213265

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

81.3688

### Nominal Velocity of Propagation:

VP (%)

82

### Nominal Delay:

Delay (ns/m)

3.9372

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

14.1083

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

10.8273

### Nom. Attenuation:

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

1	0.9843
10	2.9529
50	6.8901
100	10.1711
200	14.7645
400	21.6546
700	29.8571
900	35.1067
1000	36.7472

### Max. Power Rating:

Freq. (MHz) Rating (W)

10 1000

50	370
100	250
200	190
400	110
700	75
1000	60

**Max. Operating Voltage - UL:**

<b>Voltage</b>
300 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9258 0091000	1,000 FT	40.000 LB	WHITE		RG-8X TYPE COAX
9258 010U1000	1,000 FT	39.000 LB	BLACK		RG-8X TYPE COAX
9258 010U500	500 FT	20.000 LB	BLACK		RG-8X TYPE COAX
9258 0101000	1,000 FT	40.000 LB	BLACK	C	RG-8X TYPE COAX
9258 010500	500 FT	20.000 LB	BLACK	C	RG-8X TYPE COAX

**Notes:**

C = CRATE REEL PUT-UP.

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