

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9258 Coax - RG-8X Type



For more Information  
please call

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

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### Flame Test

UL Flame Test: UL1685 UL Loading

### Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Suitability - Aerial: Yes

### Plenum/Non-Plenum

Plenum (Y/N): No

### Electrical Characteristics (Overall)

#### Nom. Characteristic Impedance:

Impedance (Ohm)

50

#### Nom. Inductance:

Inductance ( $\mu$ H/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:

Voltage

300 V RMS

### Put Ups and Colors:

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc       |
|---------------|--------|-------------|-------|-------|-----------------|
| 9258 0091000  | 305 MT | 18.144 KG   | WHITE |       | RG-8X TYPE COAX |
| 9258 010U1000 | 305 MT | 17.690 KG   | BLACK |       | RG-8X TYPE COAX |
| 9258 010U500  | 152 MT | 9.072 KG    | BLACK |       | RG-8X TYPE COAX |
| 9258 0101000  | 305 MT | 18.144 KG   | BLACK | C     | RG-8X TYPE COAX |

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|             |        |          |       |   |                 |
|-------------|--------|----------|-------|---|-----------------|
| 9258 010500 | 152 MT | 9.072 KG | BLACK | C | RG-8X TYPE COAX |
|-------------|--------|----------|-------|---|-----------------|

**Notes:**

C = CRATE REEL PUT-UP.

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