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1-800-Belden1



## General Description:

22 AWG solid bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (85% coverage), PVC jacket.

## Physical Characteristics (Overall)

### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material               | Dia. (mm) |
|--------|-----|-----------|----------------------------------|-----------|
| 1      | 22  | Solid     | BCCS - Bare Copper Covered Steel | 0.635     |

Total Number of Conductors: 1

### Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene   | 3.7084    |

### Outer Shield

Outer Shield Material:

| Type  | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper      | 85           |

### 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

Non-UL Temperature Rating: 80°C

Bulk Cable Weight: 49.111 Kg/Km

Max. Recommended Pulling Tension: 298.029 N

Min. Bend Radius/Minor Axis: 63.500 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC(UL) Specification:                | CMX                       |
| CEC/C(UL) Specification:              | CMX                       |
| AWM Specification:                    | UL Style 1354 (30 V 80°C) |
| 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): | 01/01/2004                |
| 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:                              | 59/U                      |

**Flame Test**

UL Flame Test: VW-1

**Suitability**

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Electrical Characteristics (Overall)**

**Nom. Characteristic Impedance:**

Impedance (Ohm)  
75

**Nom. Inductance:**

Inductance (µH/m)  
0.367472

**Nom. Capacitance Conductor to Shield:**

Capacitance (pF/m)  
63.6514

**Nominal Velocity of Propagation:**

VP (%)  
66

**Nominal Delay:**

Delay (ns/m)  
5.05274

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/km)  
164.05

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/km)  
14.7645

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1           | 1.9686                |
| 10          | 3.6091                |
| 50          | 7.8744                |
| 100         | 11.1554               |
| 200         | 16.0769               |
| 400         | 22.967                |
| 700         | 31.8257               |
| 900         | 36.4191               |
| 1000        | 39.372                |

**Nom. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 470        |
| 100         | 310        |
| 300         | 160        |
| 500         | 115        |
| 1000        | 76         |

**Max. Operating Voltage - UL:**

Voltage  
150 V RMS

**Max. Operating Voltage - Non-UL:**

Voltage  
1700 V RMS

**Minimum Return Loss:**

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
|             |             | 5                 | 450              | 23           |

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc         |
|---------------|----------|-------------|-------|-------|-------------------|
| 9244 010U1000 | 1,000 FT | 35.000 LB   | BLACK |       | RG-59/U TYPE COAX |

# Detailed Specifications & Technical Data



## METRIC MEASUREMENT VERSION

### 9244 Coax - 75 Ohm Coax

|              |          |           |       |  |                   |
|--------------|----------|-----------|-------|--|-------------------|
| 9244 010U500 | 500 FT   | 18.000 LB | BLACK |  | RG-59/U TYPE COAX |
| 9244 0101000 | 1,000 FT | 36.000 LB | BLACK |  | RG-59/U TYPE COAX |

Revision Number: 3    Revision Date: 05-14-2007

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