Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





For more Information please call

1-800-Belden1



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General Description:

RG-58A/U type, 20 AWG solid .033" bare copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

1

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|---------------------------|-----------|
| 1 | 20 | Solid | BC - Bare Copper | 0.8382 |

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Material Dia. (mm)
PE - Polyethylene | 2.9464

Outer Shield

Outer Shield Material:

| | Outer Shield Material | |
|-------|-----------------------|----|
| Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 4.902 mm

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -40°C To +75°C | |
|-----------------------------------|--------------------------|--|
| UL Temperature Rating: | 80°C (UL AWM Style 1354) | |
| Bulk Cable Weight: | 38.693 Kg/Km | |
| Max. Recommended Pulling Tension: | 209.065 N | |
| Min. Bend Radius/Minor Axis: | 50.800 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 |
| 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 |

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8240 Coax - RG-58A/U Type

| 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: | 58/U |
| Flame Test | |
| UL Flame Test: | VW-1 |
| Suitability | |
| Suitability - Indoor: | Yes |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | No |
| Plenum Number: | 88240, 82240 |

Electrical Characteristics (Overall)

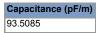
Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



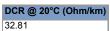
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 13.4521

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 0.9843 |
| 10 | 3.6091 |
| 50 | 8.2025 |
| 100 | 12.4678 |
| 200 | 18.3736 |
| 400 | 27.5604 |
| 700 | 38.3877 |
| 900 | 44.9497 |
| 1000 | 47.5745 |

Max. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50 | 530 |
| 100 | 350 |

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8240 Coax - RG-58A/U Type

| 400 | 160 |
|------|-----|
| 1000 | 90 |

Max. Operating Voltage - UL:

| Voltage |
|------------------------------|
| 300 V RMS (CMX) |
| 30 V RMS (UL AWM Style 1354) |

Max. Operating Voltage - Non-UL:

Voltage 1400 V RMS

Other Electrical Characteristic 1:

Actual Impedance specification is 51.5 +/- 1.5 ohms.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|------------------|
| 8240 010U1000 | 1,000 FT | 27.000 LB | BLACK | | #20 PE BRD FRPVC |
| 8240 010U500 | 500 FT | 14.000 LB | BLACK | | #20 PE BRD FRPVC |
| 8240 010100 | 100 FT | 3.300 LB | BLACK | | #20 PE BRD FRPVC |
| 8240 0101000 | 1,000 FT | 27.000 LB | BLACK | С | #20 PE BRD FRPVC |
| 8240 010500 | 500 FT | 14.500 LB | BLACK | С | #20 PE BRD FRPVC |
| 8240 0105000 | 5,000 FT | 135.000 LB | BLACK | С | #20 PE BRD FRPVC |

Notes:

C = CRATE REEL PUT-UP.

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