

8240 Coax - RG-58A/U Type

For more Information
please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 20 | Solid | BC - Bare Copper | .033 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PE - Polyethylene | .116 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.193 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|--------------------------|
| Operating Temperature Range: | -40°C To +75°C |
| UL Temperature Rating: | 80°C (UL AWM Style 1354) |
| Bulk Cable Weight: | 26 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 47 lbs. |
| Min. Bend Radius/Minor Axis: | 2 in. |

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 |

| | |
|---------------------------------------|------------|
| 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:

Impedance (Ohm)

52

Nom. Inductance:

Inductance (µH/ft)

0.080

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

28.5

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

10.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

4.1

Nom. Attenuation:

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

| | |
|------|------|
| 1 | 0.3 |
| 10 | 1.1 |
| 50 | 2.5 |
| 100 | 3.8 |
| 200 | 5.6 |
| 400 | 8.4 |
| 700 | 11.7 |
| 900 | 13.7 |
| 1000 | 14.5 |

Max. Power Rating:

Freq. (MHz) Rating (W)

| | |
|-----|-----|
| 50 | 530 |
| 100 | 350 |

| | |
|------|-----|
| 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 | C | #20 PE BRD FRPVC |
| 8240 010500 | 500 FT | 14.500 LB | BLACK | C | #20 PE BRD FRPVC |
| 8240 0105000 | 5,000 FT | 135.000 LB | BLACK | C | #20 PE BRD FRPVC |

Notes:

C = CRATE REEL PUT-UP.

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