

## 88240 Coax - RG-58A/U Type

For more Information  
please call

1-800-Belden1



### Description:

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

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1      | 20  | Solid     | BC - Bare Copper   | .032       |

#### Insulation

##### Insulation Material:

| Insulation Trade Name | Insulation Material                  | Dia. (in.) |
|-----------------------|--------------------------------------|------------|
| Teflon®               | FEP - Fluorinated Ethylene Propylene | .107       |

#### Outer Shield

##### Outer Shield Material:

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

#### Outer Jacket

##### Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material                |
|-------------------------|--------------------------------------|
| Teflon®                 | FEP - Fluorinated Ethylene Propylene |

#### Overall Cable

Overall Nominal Diameter: 0.159 in.

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

UL Temperature Rating: 200°C

Bulk Cable Weight: 21 lbs/1000 ft.

Max. Recommended Pulling Tension: 47 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 04/01/2005

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:    | NFPA 262 |
| C(UL) Flame Test: | FT6      |

### Plenum/Non-Plenum

|                |      |
|----------------|------|
| Plenum (Y/N):  | Yes  |
| Plenum Number: | 8240 |

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

#### Impedance (Ohm)

53

### Nom. Inductance:

#### Inductance (µH/ft)

0.088

### Nom. Capacitance Conductor to Shield:

#### Capacitance (pF/ft)

26.4

### Nominal Velocity of Propagation:

#### VP (%)

69.5

### Nominal Delay:

#### Delay (ns/ft)

1.48

### Nom. Conductor DC Resistance:

#### DCR @ 20°C (Ohm/1000 ft)

10.2

### Nominal Outer Shield DC Resistance:

#### DCR @ 20°C (Ohm/1000 ft)

6.7

### Nom. Attenuation:

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

|      |      |
|------|------|
| 1    | 0.5  |
| 10   | 1.2  |
| 50   | 3.0  |
| 100  | 4.3  |
| 200  | 6.4  |
| 400  | 9.7  |
| 700  | 13.7 |
| 900  | 16.1 |
| 1000 | 17.3 |

### Nom. Power Rating:

#### Freq. (MHz) Rating (W)

|     |        |
|-----|--------|
| 1   | 4798.7 |
| 10  | 1937.2 |
| 50  | 782.4  |
| 100 | 542.2  |
| 200 | 370.3  |
| 400 | 248.5  |
| 700 | 177.7  |
| 900 | 153.0  |

|      |       |
|------|-------|
| 1000 | 143.2 |
|------|-------|

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 300 V RMS      |

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

|                |
|----------------|
| <b>Voltage</b> |
| 1400 V RMS     |

## Notes (Overall)

**Notes:** Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## Related Documents:

No related documents are available for this product

## Put Ups and Colors:

| Item #        | Putup    | Ship Weight | Color | Notes | Item Desc           |
|---------------|----------|-------------|-------|-------|---------------------|
| 88240 0101000 | 1,000 FT | 26.000 LB   | BLACK | C     | #20 COAX FEP RG58/U |
| 88240 010500  | 500 FT   | 14.000 LB   | BLACK | C     | #20 COAX FEP RG58/U |

**Notes:**

C = CRATE REEL PUT-UP.

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