

Product: [82240](#) 

53 Ohm, RG58, 20 AWG, CMP



Product Description

RG-58/U type, 20 AWG solid .032" bare copper conductor, plenum, FEP Teflon® insulation, tinned copper braid shield (95% coverage), Flamarrest® jacket.

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |           |                  |                  |             |
|------------------|-----------|------------------|------------------|-------------|
| AWG              | Stranding | Material         | Nominal Diameter | No. of Coax |
| 20               | Solid     | BC - Bare Copper | 0.032 in         | 1           |
| Conductor Count: |           |                  | 1                |             |

| Insulation                           |                     |                  |
|--------------------------------------|---------------------|------------------|
| Material                             | Material Trade Name | Nominal Diameter |
| FEP - Fluorinated Ethylene Propylene | Teflon®             | 0.107 in         |

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

| Outer Jacket Material    |                     |                  |
|--------------------------|---------------------|------------------|
| Material                 | Material Trade Name | Nominal Diameter |
| PVC - Polyvinyl Chloride | Flamarrest®         | 0.159 in         |

Electrical Characteristics

| Conductor DCR         |                       |                      |                          |                     |
|-----------------------|-----------------------|----------------------|--------------------------|---------------------|
| Nominal Conductor DCR | Nominal Conductor DCR | Conductor Resistance | Nominal Outer Shield DCR | Outer Conductor DCR |
| 10.2 Ohm/1000ft       | 10.2 Ohm/1000ft       |                      | 6.7 Ohm/1000ft           | 6.7 Ohm/1000ft      |

| Capacitance                          |  |
|--------------------------------------|--|
| Nom. Capacitance Conductor to Shield |  |
| 26.4 pF/ft                           |  |

| Inductance         |  |
|--------------------|--|
| Nominal Inductance |  |
| 0.07 µH/ft         |  |

| Impedance                        |  |
|----------------------------------|--|
| Nominal Characteristic Impedance |  |
| 53 Ohm                           |  |

| High Frequency (Nominal/Typical) |                     |
|----------------------------------|---------------------|
| Frequency [MHz]                  | Nom. Insertion Loss |
| 1 MHz                            | 0.5 dB/100ft        |
| 10 MHz                           | 1.2 dB/100ft        |
| 50 MHz                           | 3 dB/100ft          |

|          |               |
|----------|---------------|
| 100 MHz  | 4.3 dB/100ft  |
| 200 MHz  | 6.4 dB/100ft  |
| 400 MHz  | 9.7 dB/100ft  |
| 700 MHz  | 13.7 dB/100ft |
| 900 MHz  | 16.1 dB/100ft |
| 1000 MHz | 17.3 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.48 ns/ft    | 69.5%                                    |

Power Rating

| Frequency [MHz] | Nominal Power Rating [W] |
|-----------------|--------------------------|
| 1 MHz           | 4,798.7 W                |
| 10 MHz          | 1,937.2 W                |
| 50 MHz          | 782.4 W                  |
| 100 MHz         | 542.2 W                  |
| 200 MHz         | 370.3 W                  |
| 400 MHz         | 248.5 W                  |
| 700 MHz         | 177.7 W                  |
| 900 MHz         | 153 W                    |
| 1,000 MHz       | 143.2 W                  |

Voltage

| Non-UL Voltage Rating | UL Voltage Rating |
|-----------------------|-------------------|
| 1400 V RMS            | 300 V RMS         |

Temperature Range

|                       |              |
|-----------------------|--------------|
| UL Temp Rating:       | 75°C         |
| Operating Temp Range: | 0°C To +75°C |

Mechanical Characteristics

|                             |               |
|-----------------------------|---------------|
| Bulk Cable Weight:          | 24 lbs/1000ft |
| Max. Pull Tension:          | 47 lbs        |
| Min Bend Radius/Minor Axis: | 1.75 in       |

Standards

|                       |           |
|-----------------------|-----------|
| NEC/(UL) Compliance:  | CMP       |
| CEC/C(UL) Compliance: | CMP       |
| CPR Euroclass:        | Eca       |
| RG Type:              | 58/U Type |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| Environmental Space:                  | Indoor - Plenum               |
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/11/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive 2015/863/EU:             | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | No                            |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                   |          |
|-------------------|----------|
| UL Flammability:  | NFPA 262 |
| CSA Flammability: | FT6      |

|                    |               |
|--------------------|---------------|
| IEC Flammability:  | IEC 60332-1-2 |
| UL voltage rating: | 300 V RMS     |

Plenum/Non-Plenum

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

Part Number

|                    |      |
|--------------------|------|
| Non-Plenum Number: | 8240 |
|--------------------|------|

Variants

| Item #         | Color   | Putup Type   | Length   | UPC          |
|----------------|---------|--------------|----------|--------------|
| 82240 010U500  | Black   | UnReel       | 500 ft   | 612825434832 |
| 82240 010Z500  | Black   | ReelTuff Box | 500 ft   | 612825196440 |
| 82240 010Z1000 | Black   | ReelTuff Box | 1,000 ft | 612825434757 |
| 82240 877U500  | Natural | UnReel       | 500 ft   | 612825434849 |
| 82240 877I1000 | Natural | Reel         | 1,000 ft | 612825196426 |
| 82240 877U1000 | Natural | UnReel       | 1,000 ft | 612825196433 |
| 82240 877Z1000 | Natural | ReelTuff Box | 1,000 ft | 612825196471 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

Product Notes

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

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.271 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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