

## 82240 Coax - RG-58A/U Type

|                                                                                                                                                                      |                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|   | <p>For more information please<br/>call<br/><b>1-800-Belden1</b></p> <p><u>See Put-ups and Colors</u></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|

### Description:

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

### PHYSICAL CHARACTERISTICS:

#### CONDUCTOR:

|                            |                  |
|----------------------------|------------------|
| Number of Coax             | 1                |
| Total Number of Conductors | 1                |
| RG Type                    | 58/U             |
| AWG                        | 20               |
| Stranding                  | Solid            |
| Conductor Diameter         | .032 in.         |
| Conductor Material         | BC - Bare Copper |

#### INSULATION:

|                                |                                      |
|--------------------------------|--------------------------------------|
| Insulation Material Trade Name | Teflon®                              |
| Insulation Material            | FEP - Fluorinated Ethylene Propylene |
| Insulation Diameter            | .107 in.                             |

#### OUTER SHIELD:

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

#### OUTER JACKET:

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Outer Jacket Material Trade Name | Flamarrest®                           |
| Outer Jacket Material            | LS PVC - Low Smoke Polyvinyl Chloride |

#### OVERALL NOMINAL DIAMETER:

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .159 in. |
|--------------------------|----------|

### MECHANICAL CHARACTERISTICS:

|                                  |                 |
|----------------------------------|-----------------|
| Operating Temperature Range      | 0°C To +75°C    |
| UL Temperature Rating            | 75°C            |
| Bulk Cable Weight                | 30 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 47 lbs.         |

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|                            |       |
|----------------------------|-------|
| Min. Bend Radius (Install) | 2 in. |
|----------------------------|-------|

### APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

#### APPLICABLE STANDARDS:

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification                | CMP        |
| CEC/C(UL) Specification               | CMP        |
| EU CE Mark (Y/N)                      | No         |
| EU RoHS Compliant (Y/N)               | Yes        |
| EU RoHS Compliance Date (mm/dd/yyyy): | 10/01/2005 |

#### FLAME TEST:

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

#### PLENUM/NON-PLENUM:

|                   |      |
|-------------------|------|
| Plenum (Y/N)      | Y    |
| Non-Plenum Number | 8240 |

#### ELECTRICAL CHARACTERISTICS:

|                                           |                   |
|-------------------------------------------|-------------------|
| Nom. Characteristic Impedance             | 53.5 Ohms         |
| Nom. Inductance                           | 0.070 $\mu$ H/ft  |
| Nom. Capacitance Conductor to Shield      | 26.4 pF/ft        |
| Nominal Velocity of Propagation           | 69.5 %            |
| Nominal Delay                             | 1.48 ns/ft        |
| Nom. Conductor DC Resistance @ 20 Deg. C  | 10.2 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20°C | 6.7 Ohms/1000 ft  |

#### Nom. Attenuation :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. 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 :

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| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Power 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 300 V RMS

Max. Operating Voltage - Non-UL 1400 V RMS

### NOTES:

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

### PUT-UPS AND COLORS:

| Item           | Description               | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|---------------------------|--------------|--------------------|--------------|-------|
| 82240 8771000  | #20 FEP RG-58/U<br>FLMRST | 1000         | 24                 | NATURAL      | C     |
| 82240 877U1000 | #20 FEP RG58/U<br>FLMRST  | U1000        | 26                 | NATURAL      |       |
| 82240 877U500  | #20 FEP RG58/U<br>FLMRST  | U500         | 13.5               | NATURAL      |       |

C = CRATE REEL PUT-UP.

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