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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. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 20 | Solid | BC - Bare Copper | 0.8128 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (mm) |
|-----------------------|--------------------------------------|-----------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 2.7178 |

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 Cabling

Overall Nominal Diameter: 4.039 mm

Mechanical Characteristics (Overall)

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

UL Temperature Rating: 200°C

Bulk Cable Weight: 31.252 Kg/Km

Max. Recommended Pulling Tension: 209.065 N

Min. Bend Radius (Install)/Minor Axis: 50.800 mm

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/m) |
|-------------------|
| 0.288728 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 86.6184 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 69.5 |

Nominal Delay:

| Delay (ns/m) |
|--------------|
| 4.85588 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 33.4662 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 21.9827 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 1.6405 |
| 10 | 3.9372 |
| 50 | 9.843 |
| 100 | 14.1083 |
| 200 | 20.9984 |
| 400 | 31.8257 |
| 700 | 44.9497 |
| 900 | 52.8241 |
| 1000 | 56.7613 |

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:

| |
|----------------|
| Voltage |
| 300 V RMS |

Max. Operating Voltage - Non-UL:

| |
|----------------|
| Voltage |
| 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 | 305 MT | 10.886 KG | BLACK | C | #20 COAX FEP RG58/U |
| 88240 010500 | 152 MT | 5.443 KG | BLACK | C | #20 COAX FEP RG58/U |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 09-23-2008

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