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1-800-Belden1



General Description:

RG-58A/U type, 20 AWG stranded (19x32) .037" tinned copper conductor, foam polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 20 | 19x32 | TC - Tinned Copper | 0.9398 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|-------------------------|-----------|
| FPE - Foam Polyethylene | 2.8956 |

Outer Shield

Outer Shield Material:

| Type | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | TC - Tinned Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 4.902 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

UL Temperature Rating: 80°C

Bulk Cable Weight: 37.205 Kg/Km

Max. Recommended Pulling Tension: 222.410 N

Min. Bend Radius/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification: UL Style 1354

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

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

PMSHA Specification: SC-182/5

| | |
|--------------------------|-------------------|
| RG Type: | 58A/U |
| Flame Test | |
| UL Flame Test: | UL1685 UL Loading |
| Suitability | |
| Suitability - Indoor: | Yes |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | No |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

54

Nom. Inductance:

Inductance (µH/m)

0.213265

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

86.9465

Nominal Velocity of Propagation:

VP (%)

73

Nominal Delay:

Delay (ns/m)

4.56059

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

28.8728

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

13.4521

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 1.3124 |
| 10 | 4.2653 |
| 50 | 10.1711 |
| 100 | 14.7645 |
| 200 | 21.6546 |
| 400 | 32.81 |
| 700 | 46.5902 |
| 900 | 54.4646 |
| 1000 | 59.3861 |

Max. Operating Voltage - UL:

Voltage

30 V RMS (UL AWM Style 1354)

300 V RMS (CM)

Other Electrical Characteristic 1:

Actual Impedance specification is 53.5 +/- 3 ohms.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-------------------|
| 8219 009U500 | 500 FT | 14.000 LB | WHITE | | RG58A/U TYPE COAX |
| 8219 0091000 | 1,000 FT | 28.000 LB | WHITE | C | RG58A/U TYPE COAX |
| 8219 010U1000 | 1,000 FT | 27.000 LB | BLACK | | RG58A/U TYPE COAX |
| 8219 010U500 | 500 FT | 14.000 LB | BLACK | | RG58A/U TYPE COAX |
| 8219 0101000 | 1,000 FT | 28.000 LB | BLACK | C | RG58A/U TYPE COAX |
| 8219 010500 | 500 FT | 14.500 LB | BLACK | C | RG58A/U TYPE COAX |

Notes:

C = CRATE REEL PUT-UP.

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