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### Description:

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

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1      | 20  | Solid     | BC - Bare Copper   | 0.8382    |

#### Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PE - Polyethylene   | 2.9464    |

#### Outer Shield

Outer Shield Material:

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

#### Outer Jacket

Outer Jacket Material:

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

#### Overall Cabling

Overall Nominal Diameter: 4.902 mm

### Mechanical Characteristics (Overall)

|                                        |                          |
|----------------------------------------|--------------------------|
| Operating Temperature Range:           | -40°C To +75°C           |
| UL Temperature Rating:                 | 80°C (UL AWM Style 1354) |
| Bulk Cable Weight:                     | 37.205 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:               | CMX                       |
| CEC/C(UL) Specification:              | CMX                       |
| AWM Specification:                    | UL Style 1354 (30 V 80°C) |
| 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): | 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  |
| RG Type:                          | 58/U |

**Flame Test**

|                |                         |
|----------------|-------------------------|
| UL Flame Test: | UL1685 UL Loading, VW-1 |
|----------------|-------------------------|

**Suitability**

|                        |                                          |
|------------------------|------------------------------------------|
| Suitability - Indoor:  | Yes                                      |
| Suitability - Outdoor: | Yes                                      |
| Suitability - Aerial:  | Yes - when supported by a messenger wire |

**Plenum/Non-Plenum**

|                |              |
|----------------|--------------|
| Plenum (Y/N):  | No           |
| Plenum Number: | 88240, 82240 |

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

| Impedance (Ohm) |
|-----------------|
| 52              |

**Nom. Inductance:**

| Inductance (μH/m) |
|-------------------|
| 0.26248           |

**Nom. Capacitance Conductor to Shield:**

| Capacitance (pF/m) |
|--------------------|
| 93.5085            |

**Nominal Velocity of Propagation:**

| VP (%) |
|--------|
| 66     |

**Nominal Delay:**

| Delay (ns/m) |
|--------------|
| 5.05274      |

**Nom. Conductor DC Resistance:**

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 32.81               |

**Nominal Outer Shield DC Resistance:**

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 13.4521             |

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1           | 0.9843                |
| 10          | 3.6091                |
| 50          | 8.2025                |
| 100         | 12.4678               |
| 200         | 18.3736               |
| 400         | 27.5604               |
| 700         | 38.3877               |
| 900         | 44.9497               |
| 1000        | 47.5745               |

**Max. Power Rating:**

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 530        |
| 100         | 350        |

|      |     |
|------|-----|
| 400  | 160 |
| 1000 | 90  |

**Max. Operating Voltage - UL:**

| Voltage                      |
|------------------------------|
| 300 V RMS (CMX)              |
| 30 V RMS (UL AWM Style 1354) |

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

| Voltage    |
|------------|
| 1400 V RMS |

**Other Electrical Characteristic 1:**

Actual Impedance specification is 51.5 +/- 1.5 ohms.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup  | Ship Weight | Color | Notes | Item Desc        |
|---------------|--------|-------------|-------|-------|------------------|
| 8240 010U1000 | 305 MT | 12.247 KG   | BLACK |       | #20 PE BRD FRPVC |
| 8240 010U500  | 152 MT | 6.350 KG    | BLACK |       | #20 PE BRD FRPVC |
| 8240 010100   | 30 MT  | 1.497 KG    | BLACK |       | #20 PE BRD FRPVC |
| 8240 0101000  | 305 MT | 11.793 KG   | BLACK | C     | #20 PE BRD FRPVC |
| 8240 010500   | 152 MT | 5.897 KG    | BLACK | C     | #20 PE BRD FRPVC |

**Notes:**

C = CRATE REEL PUT-UP.

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#### Как с нами связаться

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