

Product: [8262](#) 



50 Ohm, RG58, 20 AWG Stranded TC, TC Braid, Non-contaminating PVC Jacket, Commercial Non-QPL Product

Product Description

50 Ohm, RG-58C/U, 20 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), non-contaminating PVC jacket, commercial non-QPL product

Technical Specifications

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------|------------------|-------------|
| 20 | Stranded | TC - Tinned Copper | 0.035 in | 1 |

| | |
|------------------|---|
| Conductor Count: | 1 |
|------------------|---|

Insulation

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.115 in |

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter |
|--|------------------|
| PVC - Polyvinyl Chloride (Non-Contaminating) | 0.195 in |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
|-----------------------|--------------------------|---------------------|
| 10.8 Ohm/1000ft | 4.1 Ohm/1000ft | 4.1 Ohm/1000ft |

Capacitance

| Nom. Capacitance Conductor to Shield |
|--------------------------------------|
| 30.8 pF/ft |

Inductance

| Nominal Inductance |
|--------------------|
| 0.077 μ H/ft |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 50 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz | 0.4 dB/100ft |
| 10 MHz | 1.4 dB/100ft |

| | |
|----------|---------------|
| 50 MHz | 3.3 dB/100ft |
| 100 MHz | 4.9 dB/100ft |
| 200 MHz | 7.3 dB/100ft |
| 400 MHz | 11.5 dB/100ft |
| 700 MHz | 17 dB/100ft |
| 900 MHz | 20 dB/100ft |
| 1000 MHz | 21.5 dB/100ft |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|--|
| 1.54 ns/ft | 66% |

Voltage

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

Temperature Range

| | |
|-----------------------|----------------|
| UL Temp Rating: | 85°C |
| Operating Temp Range: | -40°C To +80°C |

Mechanical Characteristics

| | |
|-----------------------------|------------------|
| UV Resistance: | Yes - Black only |
| Bulk Cable Weight: | 24 lbs/1000ft |
| Max. Pull Tension: | 42 lbs |
| Min Bend Radius/Minor Axis: | 2 in |

Standards

| | |
|--------------------------------|---|
| CPR Euroclass: | Eca |
| RG Type: | 58C/U Type |
| Military Compliance: | Commerical, non-QPL product (M17/155-00001) |
| Qualified Products List (QPL): | No |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| Environmental Space: | Outdoor - Aerial |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2003/96/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: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|--|
| Suitability - Aerial: | Yes - Black only, when supported by messenger wire |
| Suitability - Burial: | No |
| Suitability - Hazardous Locations: | No |
| Suitability - Indoor: | Yes |
| Suitability - Outdoor: | Yes - Black only |

Flammability, LSOH, Toxicity Testing

| | |
|-------------------|---------------|
| IEC Flammability: | IEC 60332-1-2 |
|-------------------|---------------|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Putup Type | Length | UPC |
|---------------|-------|------------|----------|--------------|
| 8262 010500 | Black | Reel | 500 ft | 612825197423 |
| 8262 010U500 | Black | UnReel | 500 ft | 612825358114 |
| 8262 0101000 | Black | Reel | 1,000 ft | 612825197454 |
| 8262 010U1000 | Black | UnReel | 1,000 ft | 612825197430 |

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

Product Notes

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|--------|---------------------------------|
| Notes: | Non-SWR swept version of RG-58. |
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History

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| Update and Revision: | Revision Number: 0.294 Revision Date: 04-28-2020 |
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