

Part Number: 8259

50 Ohm, RG58, 21 AWG Stranded TC, TC Braid, PVC Jacket



Product Description

50 Ohm, RG-58A/U type, 21 AWG stranded (19x33) .035" tinned copper conductor, polyethylene insulation, tinned copper braid shield (95% coverage), PVC jacket.

Technical Specifications

Product Overview

| | |
|----------------------|------------------------------|
| Environmental Space: | Indoor (Not Riser or Plenum) |
|----------------------|------------------------------|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter | No. of Coax |
|-----|-----------|--------------------|------------------|-------------|
| 21 | 19x33 | TC - Tinned Copper | 0.035 in | 1 |

| | |
|------------------|----|
| Conductor Count: | 1 |
| AWG Size: | 20 |

Insulation

| Material | Nominal Diameter |
|-------------------|------------------|
| PE - Polyethylene | 0.116 in |

Outer Shield Material

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

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.193 in | 0.0275 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 |
|--------------------|
| 0.092 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 | 1.5 dB/100ft |
| 50 MHz | 3.7 dB/100ft |
| 100 MHz | 5.4 dB/100ft |
| 200 MHz | 8.1 dB/100ft |
| 400 MHz | 12.4 dB/100ft |
| 700 MHz | 17.7 dB/100ft |
| 900 MHz | 21.1 dB/100ft |
| 1000 MHz | 22.8 dB/100ft |

Delay

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

Voltage

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

Temperature Range

| | |
|-----------------------|----------------|
| Non-UL Temp Rating: | 75°C |
| Operating Temp Range: | -40°C To +75°C |

Mechanical Characteristics

| | |
|----------------------------------|---------------|
| Bulk Cable Weight: | 25 lbs/1000ft |
| Max Recommended Pulling Tension: | 42 lbs |
| Min Bend Radius/Minor Axis: | 2 in |

Standards

| | |
|----------------|---------------|
| CPR Euroclass: | Eca |
| RG Type: | RG-58A/U Type |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| 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: | No |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2004-01-01 |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Part Number

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

Variants

| Item # | Color | Footnote |
|---------------|-------|----------|
| 8259 010100 | BLACK | |
| 8259 0101000 | BLACK | C |
| 8259 010500 | BLACK | C |
| 8259 0105000 | BLACK | C |
| 8259 010U1000 | BLACK | |
| 8259 010U500 | BLACK | |

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

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