

**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 | TC - Tinned Copper | 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 $\mu$ 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 Recommended Pulling Tension: | 42 lbs           |
| Min Bend Radius/Minor Axis:      | 2 in             |

#### Standards

|                             |   |
|-----------------------------|---|
| CPR Euroclass:              | Eca   |
| RG Type:                    | 58C/U Type                                  |
| Military Specification:     | Commerical, non-QPL product (M17/155-00001) |
| QPL (Qualified Parts List): | 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

|                       |               |
|-----------------------|---------------|
| ISO/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

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

## History

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

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Belden Wire & Cable:](#)

[8262 010U500](#) [8262 0101000](#) [8262 010U1000](#) [8262 010500](#)