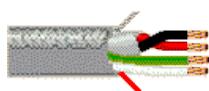


# Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

**BELDEN**  
SENDING ALL THE RIGHT SIGNALS

## 5502GE Multi-Conductor - Commercial Applications



For more Information  
please call

1-800-Belden1



### General Description:

Security & Alarm Cable, Riser-CMR, 1-22 AWG stranded bare copper pair with polyolefin insulation and Beldfoil® shield, 2-22 AWG stranded bare copper conductors with insulation, Overall PVC jacket with ripcord

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 2            | 1       | 22  | 7x30      | BC - Bare Copper   |

Total Number of Conductors: 4

#### Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|---------------------|----------------------|
| PP - Polypropylene  | 0.007                |

#### Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material        | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil®               | Tape | Aluminum Foil-Polyester Tape | 100          |

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

#### Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded            |

#### Outer Jacket

Outer Jacket Material:

| Outer Jacket Material    | Nom. Wall Thickness (in.) |
|--------------------------|---------------------------|
| PVC - Polyvinyl Chloride | 0.017                     |

#### Overall Cable

Overall Cabling Color Code Chart:

| Color                       |
|-----------------------------|
| Black & Red (shielded pair) |
| White                       |
| Green                       |

Overall Nominal Diameter: 0.152 in.

#### Pair

Pair Lay Length & Direction:

| Lay Length (in.) |
|------------------|
| 1.375            |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 18.200 lbs/1000 ft.

Max. Recommended Pulling Tension: 42 lbs.

Min. Bend Radius/Minor Axis: 1.500 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

# Detailed Specifications & Technical Data



## ENGLISH MEASUREMENT VERSION

## 5502GE Multi-Conductor - Commercial Applications

|                                       |            |
|---------------------------------------|------------|
| 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): | 04/01/2005 |
| 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        |

### Flame Test

|                   |                       |
|-------------------|-----------------------|
| UL Flame Test:    | UL1666 Vertical Shaft |
| C(UL) Flame Test: | FT4                   |

### Plenum/Non-Plenum

|                |        |
|----------------|--------|
| Plenum (Y/N):  | No     |
| Plenum Number: | 6502GE |

### Surface Printing (Overall)

### Electrical Characteristics (Overall)

#### Nom. Inductance:

|                    |
|--------------------|
| Inductance (μH/ft) |
| 0.160              |

#### Nom. Capacitance Conductor to Conductor:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 37.000              |

#### Nom. Capacitance Cond. to Other Conductor & Shield:

|                     |
|---------------------|
| Capacitance (pF/ft) |
| 66.500              |

#### Nom. Conductor DC Resistance:

|                          |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 16.4                     |

#### Max. Operating Voltage - UL:

|           |
|-----------|
| Voltage   |
| 300 V RMS |

#### Max. Recommended Current:

|                               |
|-------------------------------|
| Current                       |
| 2.2 Amps per conductor @ 25°C |

### Put Ups and Colors:

| Item #          | Putup    | Ship Weight | Color | Notes | Item Desc                  |
|-----------------|----------|-------------|-------|-------|----------------------------|
| 5502GE 001U1000 | 1,000 FT | 17.000 LB   | BROWN |       | 1FSPR + 2 CDR #22 PP FRPVC |
| 5502GE 008U1000 | 1,000 FT | 17.000 LB   | GRAY  |       | 1FSPR + 2 CDR #22 PP FRPVC |
| 5502GE 0081000  | 1,000 FT | 19.000 LB   | GRAY  | C     | 1FSPR + 2 CDR #22 PP FRPVC |
| 5502GE 010U1000 | 1,000 FT | 17.000 LB   | BLACK |       | 1FSPR + 2 CDR #22 PP FRPVC |

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 03-11-2013

© 2014 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 herein 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 "AS IS" 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 EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that becomes a part of. This 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.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

# Mouser Electronics

Authorized Distributor

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

[Belden Wire & Cable:](#)

[5502GE 008U1000](#) [5502GE 0081000](#) [5502GE 001U1000](#) [5502GE 010U1000](#)