



**Product:** [9581](#) 

Electronic, 2 C #14 Sol BC, PVC Ins, OS, Red PVC Jkt, FPLR

 [Request Sample](#)

## Product Description

Electronic, 2 Conductor 14AWG (Solid) Bare Copper, PVC Insulation, Overall Beldfoil® Shield, Red PVC Outer Jacket, FPLR

## Technical Specifications

### Product Overview

|                        |                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | fire alarms; indoor applications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage control (24v, ...) |
|------------------------|-------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material         | No. of Conductors |
|-----|-----------|------------------|-------------------|
| 14  | Solid     | BC - Bare Copper | 2                 |

|                        |   |
|------------------------|---|
| Conductor Count:       | 2 |
| Total Number of Pairs: | 1 |

#### Insulation

| Material                 | Nominal Wall Thickness |
|--------------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.022 in               |

#### Color Chart

| Number | Color |
|--------|-------|
| 1      | Black |
| 2      | Red   |

#### Outer Shield Material

| Type | Material    | Material Trade Name | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil®           | 100 %        | TC - Tinned Copper | 16            | Stranded                     |

#### Outer Jacket Material

| Material                 | Nominal Diameter | Nominal Wall Thickness |
|--------------------------|------------------|------------------------|
| PVC - Polyvinyl Chloride | 0.306 in         | 0.042 in               |

### Construction and Dimensions

#### Cabling

| Lay Direction | Twists     |
|---------------|------------|
| Left Hand     | 6 twist/ft |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 2.5 Ohm/1000ft        | 3.8 Ohm/1000ft           |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
|-----------------------------------------|---------------------------------------------------------|

|          |           |
|----------|-----------|
| 55 pF/ft | 105 pF/ft |
|----------|-----------|

Inductance

| Nominal Inductance |
|--------------------|
| 0.18 µH/ft         |

Current

| Max. Recommended Current [A] |
|------------------------------|
| 18 Amps per conductor @ 25°C |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                       |                 |
|-----------------------|-----------------|
| UL Temp Rating:       | 105°C           |
| Operating Temp Range: | -40°C To +105°C |

Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 58 lbs/1000ft |
| Max Recommended Pulling Tension: | 124 lbs       |
| Min Bend Radius/Minor Axis:      | 3.25 in       |

Standards

|                          |                                |
|--------------------------|--------------------------------|
| NEC Articles:            | 760                            |
| NEC/(UL) Specification:  | FPLR                           |
| CEC/C(UL) Specification: | FAS105                         |
| UL AWM Style:            | UL Style 2464 (300 V 80°C)     |
| CPR Euroclass:           | Eca                            |
| Other Specification:     | California State Fire Marshall |

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 Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

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

Flammability, LSOH, Toxicity Testing

|                       |               |
|-----------------------|---------------|
| UL Flammability:      | UL 1666 Riser |
| CSA Flammability:     | FT4           |
| ISO/IEC Flammability: | IEC 60332-1-2 |
| UL voltage rating:    | 300 V RMS     |

Plenum/Non-Plenum

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

Part Number

Variants

| Item #       | Color | UPC          |
|--------------|-------|--------------|
| 9581 0021000 | Red   | 612825256236 |
| 9581 002U500 | Red   | 612825256229 |

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

Product Notes

|        |                                                                                                                                                                                           |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes: | This cable passes the UL 1685 70,000 BTU Flame Test (comparable to the IEEE 383 Flame Test) and is listed by the California State Fire Marshall. Component Recognized UL 2464, 300V 80°C. |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.306 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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