# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



### 8241 Coax - 75 Ohm Coax

For more Information please call

1-800-Belden1



# **Description:**

23 AWG Solid .023" bare copper or bare copper-covered steel conductor, polyethylene insulation, bare copper braid shield (95% cverage), PVC jacket.

# **Physical Characteristics (Overall)**

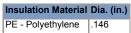
### Conductor

#### AWG:

| # Coax | AWG | Stranding | Conductor Material               | Dia. (in.) |
|--------|-----|-----------|----------------------------------|------------|
| 1      | 23  | Solid     | BCCS - Bare Copper Covered Steel | 0.023      |

### Insulation

#### **Insulation Material:**



### **Outer Shield**

### **Outer Shield Material:**

|       | Outer Shield Material | Coverage (%) |
|-------|-----------------------|--------------|
| Braid | BC - Bare Copper      | 95           |

### **Outer Jacket**

### **Outer Jacket Material:**

Outer Jacket Material
PVC - Polyvinyl Chloride

## **Overall Cable**

Overall Nominal Diameter: 0.240 in.

# **Mechanical Characteristics (Overall)**

| Operating Temperature Range:           | -40°C To +75°C  |  |  |
|--|-----------------|--|--|
| UL Temperature Rating:                 | 75°C            |  |  |
| Non-UL Temperature Rating:             | 75°C            |  |  |
| Bulk Cable Weight:                     | 37 lbs/1000 ft. |  |  |
| Max. Recommended Pulling Tension:      | 62 lbs.         |  |  |
| Min. Bend Radius (Install)/Minor Axis: | 2.500 in.       |  |  |

# **Applicable Specifications and Agency Compliance (Overall)**

# **Applicable Standards & Environmental Programs**

| 7-1                                   |               |  |  |
|---------------------------------------|---------------|--|--|
| NEC/(UL) Specification:               | CM            |  |  |
| CEC/C(UL) Specification:              | CM            |  |  |
| AWM Specification:                    | UL Style 1354 |  |  |
| 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): | 01/01/2004    |  |  |

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| 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               |
| RG Type:                          | 59/U              |
| Flame Test                        |                   |
| UL Flame Test:                    | UL1685 UL Loading |
| Suitability                       |                   |
| Suitability - Indoor:             | Yes               |
| Plenum/Non-Plenum                 |                   |
| Plenum (Y/N):                     | No                |
| Plenum Number:                    | 88241, 82241      |
|                                   |                   |

# **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



Nominal Velocity of Propagation:



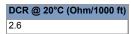
**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .6                       |
| 10          | 1.1                      |
| 50          | 2.4                      |
| 100         | 3.4                      |
| 200         | 4.9                      |
| 400         | 7.0                      |
| 700         | 9.7                      |
| 900         | 11.1                     |
| 1000        | 12.0                     |

# Nom. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50          | 470        |
| 100         | 310        |
| 300         | 160        |

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# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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| 500  | 115 |  |
|------|-----|--|
| 1000 | 76  |  |

Max. Operating Voltage - UL:

Voltage 300 V RMS 30 V RMS

Max. Operating Voltage - Non-UL:

Voltage 1700 V RMS

## **Related Documents:**

No related documents are available for this product

## **Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc             |
|---------------|----------|-------------|-------------|-------|-----------------------|
| 8241 002U1000 | 1,000 FT | 38.000 LB   | RED         |       | RG59/U TYPE COAX RED  |
| 8241 003U1000 | 1,000 FT | 38.000 LB   | ORANGE      |       | RG59/U TYPE COAX ORG  |
| 8241 004U1000 | 1,000 FT | 38.000 LB   | YELLOW      |       | RG59/U TYPE COAX YEL  |
| 8241 005U1000 | 1,000 FT | 38.000 LB   | GREEN, DARK |       | RG59/U TYPE COAX DGRN |
| 8241 006U1000 | 1,000 FT | 38.000 LB   | BLUE, LIGHT |       | RG59/U TYPE COAX LBLU |
| 8241 009U1000 | 1,000 FT | 38.000 LB   | WHITE       |       | RG59/U TYPE COAX WHT  |
| 8241 010U1000 | 1,000 FT | 38.000 LB   | BLACK       |       | RG59/U TYPE COAX BLK  |
| 8241 010U500  | 500 FT   | 19.500 LB   | BLACK       |       | RG59/U TYPE COAX BLK  |
| 8241 010100   | 100 FT   | 4.400 LB    | BLACK       |       | RG59/U TYPE COAX BLK  |
| 8241 0101000  | 1,000 FT | 40.000 LB   | BLACK       | С     | RG59/U TYPE COAX BLK  |
| 8241 0102000  | 2,000 FT | 80.000 LB   | BLACK       | С     | RG59/U TYPE COAX BLK  |
| 8241 010500   | 500 FT   | 20.000 LB   | BLACK       | С     | RG59/U TYPE COAX BLK  |
| 8241 0105000  | 5,000 FT | 200.000 LB  | BLACK       | С     | RG59/U TYPE COAX BLK  |

#### Notes:

C = CRATE REEL PUT-UP.

Revision Number: 3 Revision Date: 08-27-2011

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

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