Detailed Specifications & Technical Data



8241 Coax - 75 Ohm Coax

METRIC MEASUREMENT VERSION

For more Information

please call

1-800-Belden1



General 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 1 23 Solid BCCS - Bare Copper Covered S | Dia. (mm) Steel 0.584 |
| | |
| Total Number of Conductors: | 1 |
| Insulation Insulation Material: | |
| Insulation MaterialDia. (mm)PE - Polyethylene3.7084 | |
| Outer Shield Outer Shield Material: | |
| TypeOuter Shield MaterialCoverage (%)BraidBC - Bare Copper95 | |
| Outer Jacket Outer Jacket Material: | |
| Outer Jacket Material PVC - Polyvinyl Chloride | |
| Overall Cable | |
| Overall Nominal Diameter: | 6.096 mm |
| 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: | 55.063 Kg/Km |
| Max. Recommended Pulling Tension: | 275.788 N |
| Min. Bend Radius/Minor Axis: | 63.500 mm |
| Applicable Specifications and Agency Com | pliance (Overall) |
| Applicable Standards & Environmental Program | |
| NEC/(UL) Specification: | CM |
| CEC/C(UL) Specification: | СМ |
| AWM Specification: | UL Style 1354 |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |

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| EU Directive 2002/95/EC (RoHS): | Yes |
|---------------------------------------|-------------------|
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| 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: Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.429811

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m) 67.2605

Nominal Velocity of Propagation:

VP (%) 66

Nominal Delay:

Delay (ns/m) 5.05274

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 160.769

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

8.5306

Nom. Attenuation:

| - | (B. B. L. L.) | | (10 (10 0) |
|-------|----------------|-------------|---------------|
| Frog | (MHZ) | Attenuation | (dR/100m) |
| TICQ. | (101112) | Attenuation | (ab/ room) |

| 1 | 1.9686 |
|------|---------|
| 10 | 3.6091 |
| 50 | 7.8744 |
| 100 | 11.1554 |
| 200 | 16.0769 |
| 400 | 22.967 |
| 700 | 31.8257 |
| 900 | 36.4191 |
| 1000 | 39.372 |

Nom. Power Rating:

| Freq. (MHz) | Rating (W) |
|-------------|------------|
| 50 | 470 |

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| 100 | 310 |
|------|-----|
| 300 | 160 |
| 500 | 115 |
| 1000 | 76 |

Max. Operating Voltage - UL:

Voltage 300 V RMS 30 V RMS

Max. Operating Voltage - Non-UL:

| Voltage | | |
|------------|--|--|
| 1700 V RMS | | |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|-----------------------|
| 8241 002U1000 | 305 MT | 17.237 KG | RED | | RG59/U TYPE COAX RED |
| 8241 003U1000 | 305 MT | 17.237 KG | ORANGE | | RG59/U TYPE COAX ORG |
| 8241 004U1000 | 305 MT | 17.237 KG | YELLOW | | RG59/U TYPE COAX YEL |
| 8241 005U1000 | 305 MT | 17.237 KG | GREEN, DARK | | RG59/U TYPE COAX DGRN |
| 8241 006U1000 | 305 MT | 17.237 KG | BLUE, LIGHT | | RG59/U TYPE COAX LBLU |
| 8241 009U1000 | 305 MT | 17.237 KG | WHITE | | RG59/U TYPE COAX WHT |
| 8241 010U1000 | 305 MT | 17.237 KG | BLACK | | RG59/U TYPE COAX BLK |
| 8241 010U500 | 152 MT | 8.845 KG | BLACK | | RG59/U TYPE COAX BLK |
| 8241 010100 | 30 MT | 1.996 KG | BLACK | | RG59/U TYPE COAX BLK |
| 8241 0101000 | 305 MT | 18.144 KG | BLACK | С | RG59/U TYPE COAX BLK |
| 8241 0102000 | 610 MT | 36.288 KG | BLACK | С | RG59/U TYPE COAX BLK |
| 8241 010500 | 152 MT | 9.072 KG | BLACK | С | RG59/U TYPE COAX BLK |
| 8241 0105000 | 1,524 MT | 90.719 KG | BLACK | С | RG59/U TYPE COAX BLK |

Notes:

C = CRATE REEL PUT-UP.

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