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General Description:

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

Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---------------------|------------|
| PE - Polyethylene | .146 |

Outer Shield

Outer Shield Material:

| Type | 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/Minor Axis: 2.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

AWM Specification: UL Style 1354

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): 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/ft)

.131

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

20.5

Nominal Velocity of Propagation:

VP (%)

66

Nominal Delay:

Delay (ns/ft)

1.54

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

49.0

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.6

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 |
| 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 | 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 | C | RG59/U TYPE COAX BLK |
| 8241 0102000 | 2,000 FT | 80.000 LB | BLACK | C | RG59/U TYPE COAX BLK |
| 8241 010500 | 500 FT | 20.000 LB | BLACK | C | RG59/U TYPE COAX BLK |
| 8241 0105000 | 5,000 FT | 200.000 LB | BLACK | C | RG59/U TYPE COAX BLK |

Notes:

C = CRATE REEL PUT-UP.

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