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1-800-Belden1



General Description:

18 AWG solid .040" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (60% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 18 | Solid | BC - Bare Copper | .040 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|---|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .180 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|--|--------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 60 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.270 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|--------------------------|
| Operating Temperature Range: | -40°C To +80°C |
| UL Temperature Rating: | 80°C (UL AWM Style 1354) |
| Bulk Cable Weight: | 35 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 44 lbs. |
| Min. Bend Radius/Minor Axis: | 2.750 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 (30 V 80°C) |
| 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: | 6/U |

Flame Test

UL Flame Test: UL1685 UL Loading

Suitability

Suitability - Indoor: Yes

Suitability - Outdoor: Yes

Plenum/Non-Plenum

Plenum Number: 89248 and 82248

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
75

Nom. Inductance:

Inductance (µH/ft)
.106

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
16.2

Nominal Velocity of Propagation:

VP (%)
82

Nominal Delay:

Delay (ns/ft)
1.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
6.4

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
5.6

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1 | .30 |
| 5 | .54 |
| 10 | .70 |
| 50 | 1.5 |
| 100 | 2.0 |
| 200 | 2.8 |
| 400 | 4.0 |
| 700 | 5.3 |
| 900 | 6.1 |
| 1000 | 6.5 |
| 1500 | 8.3 |

Max. Operating Voltage - UL:

Voltage
30 V RMS (UL AWM Style 1354); 300 V RMS (CM)

Minimum Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------|-------------|-------------------|------------------|--------------|
| | | 5 | 450 | 23 |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-------------------------|
| 9248 010U1000 | 1,000 FT | 37.000 LB | BLACK | | #18 PE/GIFHDPE SH FRPVC |
| 9248 010U500 | 500 FT | 19.000 LB | BLACK | | #18 PE/GIFHDPE SH FRPVC |
| 9248 0101000 | 1,000 FT | 38.000 LB | BLACK | C | #18 PE/GIFHDPE SH FRPVC |
| 9248 0101640 | 1,640 FT | 63.960 LB | BLACK | C | #18 PE/GIFHDPE SH CORE |
| 9248 0103280 | 3,280 FT | 121.360 LB | BLACK | C | #18 PE/GIFHDPE SH FRPVC |
| 9248 010500 | 500 FT | 19.000 LB | BLACK | C | #18 PE/GIFHDPE SH FRPVC |

Notes:

C = CRATE REEL PUT-UP.

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