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1-800-Belden1



General Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® IV quad shield (60% and 40% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|----------------------------------|-----------|
| 1 | 18 | Solid | BCCS - Bare Copper Covered Steel | 1.016 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|--------------------------------------|-----------|
| Gas-injected FPE - Foam Polyethylene | 4.572 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1 | Bonded Duofoil® | Tape | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | AL - Aluminum | 60 |
| 3 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 4 | | Braid | AL - Aluminum | 40 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 7.468 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 43.158 Kg/Km

Max. Recommended Pulling Tension: 720.608 N

Min. Bend Radius/Minor Axis: 76.200 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

CEC/C(UL) Specification: CM

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 |
| Series Type: | Series 6 |

Flame Test

| | |
|----------------|-------------------|
| UL Flame Test: | UL1685 UL Loading |
|----------------|-------------------|

Plenum/Non-Plenum

| | |
|----------------|--------|
| Plenum (Y/N): | No |
| Plenum Number: | 1189AP |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/m)

0.318257

Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)

53.1522

Nominal Velocity of Propagation:

VP (%)

83

Nominal Delay:

Delay (ns/m)

3.9372

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

91.868

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

15.7488

Max. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

| | |
|------|---------|
| 5 | 2.19827 |
| 55 | 5.2496 |
| 211 | 9.41647 |
| 270 | 10.6304 |
| 300 | 11.2538 |
| 350 | 12.2053 |
| 400 | 13.124 |
| 450 | 13.9771 |
| 550 | 15.4535 |
| 750 | 18.3408 |
| 870 | 19.686 |
| 1000 | 21.4577 |

Max. Operating Voltage - UL:

Voltage

300 V RMS

Minimum Structural Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------|-------------|-------------------|------------------|---------------|
| | | 5 | 1000 | 20 |

Sweep Test

Sweep Testing: 5 MHz - 1 GHz

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|--------------|-------|---------------------------|
| 1189A 009U1000 | 305 MT | 15.422 KG | WHITE | | #18 GIFHDLPE DBL SH PVC |
| 1189A 009U500 | 152 MT | 8.165 KG | WHITE | | #18 GIFHDLPE DBL SH PVC |
| 1189A 0091000 | 305 MT | 15.422 KG | WHITE | C | #18 GIFHDLPE DBL SH PVC |
| 1189A 010U1000 | 305 MT | 15.422 KG | BLACK | | #18 GIFHDLPE DBL SH PVC . |
| 1189A 010U500 | 152 MT | 8.165 KG | BLACK | | #18 GIFHDLPE DBL SH PVC |
| 1189A 0101000 | 305 MT | 15.422 KG | BLACK | | #18 GIFHDLPE DBL SH PVC . |
| 1189A 0105000 | 1,524 MT | 83.915 KG | BLACK | | #18 GIFHDLPE DBL SH PVC |
| 1189A 2901000 | 305 MT | 15.422 KG | BEIGE, LIGHT | | #18 GIFHDLPE DBL SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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