Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9118 Coax - CATV Cable

For more Information please call

1-800-Belden1



General Description:

18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® III + aluminum braid shield (60% coverage), PVC jacket.

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Physical Characteristics (Overall)

Conductor

AWG:

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

Total Number of Conductors:

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|--------------------------------------|------------|
| Gas-injected FPE - Foam Polyethylene | .180 |

Outer Shield

Outer Shield Material:

| Layer # | Layer # Outer Shield Trade Name | | 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 |

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.275 in.

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -40°C To +80°C |
|-----------------------------------|-----------------|
| UL Temperature Rating: | 80°C |
| Bulk Cable Weight: | 27 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 126 lbs. |
| Min. Bend Radius/Minor Axis: | 2.750 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| CEC/C(UL) Specification: CM | |
|--|--|
| (-, | |
| EU Directive 2011/65/EU (ROHS II): Yes | |
| EU CE Mark: Yes | |
| EU Directive 2000/53/EC (ELV): Yes | |

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| Plenum (Y/N): | No |
|---------------------------------------|-------------------|
| Plenum/Non-Plenum | |
| UL Flame Test: | UL1685 UL Loading |
| Flame Test | |
| Series Type: | Series 6 |
| MII Order #39 (China RoHS): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/95/EC (RoHS): | Yes |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Inductance:



Nom. Capacitance Conductor to Shield:



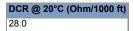
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 5 | 0.67 |
| 55 | 1.60 |
| 211 | 2.87 |
| 270 | 3.24 |
| 300 | 3.43 |
| 350 | 3.72 |
| 400 | 4.00 |
| 450 | 4.26 |
| 550 | 4.71 |
| 750 | 5.59 |
| 870 | 6.00 |
| 1000 | 6.54 |

Max. Operating Voltage - UL:



Minimum Structural Return Loss:

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

Sweep Test

Sweep Testing: 5 MHz - 1 GHz

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|----------------|-------|---------------------------|
| 9118 Q5HU1000 | 1,000 FT | 30.000 LB | WHITE, NEUTRAL | Z | #18GIFHDLDPE SH FS FRPVC |
| 9118 0081000 | 1,000 FT | 29.000 LB | GRAY | | #18 GIFHDLDPE SH FS FRPVC |
| 9118 009U1000 | 1,000 FT | 30.000 LB | WHITE | | #18 GIFHDLDPE SH FS FRPVC |
| 9118 010U1000 | 1,000 FT | 30.000 LB | BLACK | Z | #18GIFHDLDPE SH FS FRPVC |
| 9118 0101000 | 1,000 FT | 29.000 LB | BLACK | CZ | #18GIFHDLDPE SH FS FRPVC |

Notes:

C = CRATE REEL PUT-UP

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND(+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 4 Revision Date: 08-21-2012

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