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1-800-Belden1



Description:

Series 6, 18 AWG solid .040" bare copper or bare copper-covered steel conductor (see below), gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), PVC jacket (black, gray, white or neutral).

Physical Characteristics (Overall)

Conductor

AWG:

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

Insulation

Insulation Material:

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

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 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.270 in.

Mechanical Characteristics (Overall)

Installation Temperature Range: -30°C To +80°C

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

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 126 lbs.

Min. Bend Radius (Install)/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

EU CE Mark: No

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

MIL Order #39 (China RoHS): Yes

Series Type: Series 6

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) | Tolerance (Ohms) |
|-----------------|------------------|
| 75 | ± 3 |

Nom. Inductance:

| Inductance (µH/ft) |
|--------------------|
| .097 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/ft) |
|---------------------|
| 16.2 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 83 |

Nominal Delay:

| Delay (ns/ft) |
|---------------|
| 1.2 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 28.0 |

Nominal Outer Shield DC Resistance:

| DCR @ 20°C (Ohm/1000 ft) |
|--------------------------|
| 9 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 5 | .5 |
| 55 | 1.4 |
| 211 | 2.6 |
| 500 | 4.1 |
| 750 | 5.1 |
| 862 | 5.5 |
| 1000 | 6.0 |
| 1450 | 7.8 |
| 1800 | 8.6 |
| 2250 | 9.8 |
| 3000 | 11.3 |

Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 5 | 0.67 |
| 55 | 1.60 |
| 211 | 2.87 |
| 500 | 4.48 |
| 750 | 5.59 |
| 862 | 5.98 |

| | |
|------|------|
| 1000 | 6.54 |
| 1450 | 8.00 |
| 1800 | 8.80 |
| 2250 | 10.0 |
| 3000 | 11.9 |

Max. Operating Voltage - UL:

| Voltage |
|-----------|
| 350 V RMS |

Minimum Structural Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------------|------------------|---------------|
| 950 | 2250 | 15 |
| 2250 | 3000 | 10 |

Sweep Test

Sweep Testing: 950 MHz - 3 GHz

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|----------------|-------|--------------------------|
| 1829A Q5HU1000 | 1,000 FT | 29.000 LB | WHITE, NEUTRAL | Z | #18 GIFHDL DPE SH FR PVC |
| 1829A Q5H1000 | 1,000 FT | 30.000 LB | WHITE, NEUTRAL | Z | #18 GIFHDL DPE SH FR PVC |
| 1829A 008U1000 | 1,000 FT | 29.000 LB | GRAY | Z | #18 GIFHDL DPE SH FR PVC |
| 1829A 0081000 | 1,000 FT | 30.000 LB | GRAY | Z | #18 GIFHDL DPE SH FR PVC |
| 1829A 009U1000 | 1,000 FT | 29.000 LB | WHITE | Z | #18 GIFHDL DPE SH FR PVC |
| 1829A 0091000 | 1,000 FT | 30.000 LB | WHITE | Z | #18 GIFHDL DPE SH FR PVC |
| 1829A 010U1000 | 1,000 FT | 29.000 LB | BLACK | | #18 GIFHDL DPE SH FR PVC |
| 1829A 0101000 | 1,000 FT | 30.000 LB | BLACK | C | #18 GIFHDL DPE SH FR PVC |

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.

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