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1-800-Belden1



General Description:

22 AWG stranded (7x29) .031" bare compacted copper conductor, gas-injected foam HDPE insulation, tinned copper double braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|-----------------------------|------------|
| 1 | 22 | 7x29 | BCC - Bare Compacted Copper | .031 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (in.) |
|-----------------------------------------------------|------------|
| Gas-injected FHDPE - Foam High Density Polyethylene | .145 |

Outer Shield

Outer Shield Material:

| Layer # | Type | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1 | Braid | TC - Tinned Copper | 95.000 |
| 2 | Braid | TC - Tinned Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 0.242 in.

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|-----------------|
| Operating Temperature Range: | -35°C To +75°C |
| UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 41 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 88 lbs. |
| Min. Bend Radius/Minor Axis: | 2.500 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CM |
| CEC/(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): | 01/01/2005 |
| 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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Inductance:

Inductance (µH/ft)

0.094

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)

17.0

Nominal Velocity of Propagation:

VP (%)

80

Nominal Delay:

Delay (ns/ft)

1.3

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

12.2

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

2.4

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000 | 0.200 |
| 3.600 | 0.500 |
| 5.000 | 0.600 |
| 6.000 | 0.670 |
| 7.000 | 0.730 |
| 10.000 | 0.900 |
| 12.000 | 0.980 |
| 25.000 | 1.440 |
| 67.500 | 2.400 |
| 71.500 | 2.500 |
| 88.500 | 2.800 |
| 100.000 | 3.000 |
| 135.000 | 3.500 |
| 143.000 | 3.600 |
| 180.000 | 4.100 |
| 270.000 | 5.100 |
| 360.000 | 6.000 |
| 540.000 | 7.500 |
| 720.000 | 8.900 |
| 750.000 | 9.100 |
| 1000.000 | 10.800 |
| 1500.000 | 13.600 |
| 2000.000 | 16.100 |
| 2250.000 | 17.300 |
| 3000.000 | 20.700 |
| 4500.000 | 26.700 |

Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1:

Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2:

Return Loss tested in accordance with ASIM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000 | 850.000 | 20.000 |
| 851.000 | 4500.000 | 15.000 |

Sweep Test

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

Notes (Overall)

Notes: Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|---------------|-------|-----------------------|
| 1505F B591000 | 1,000 FT | 45.000 LB | BLACK, MATTE | C | #21 GIFHDLPE DBLB PVC |
| 1505F G7V1000 | 1,000 FT | 45.000 LB | RED, MATTE | C | #21 GIFHDLPE DBLB PVC |
| 1505F G7W1000 | 1,000 FT | 45.000 LB | GREEN, MATTE | C | #21 GIFHDLPE DBLB PVC |
| 1505F G7X1000 | 1,000 FT | 45.000 LB | BLUE, MATTE | C | #21 GIFHDLPE DBLB PVC |
| 1505F G7Y1000 | 1,000 FT | 45.000 LB | WHITE, MATTE | C | #21 GIFHDLPE DBLB PVC |
| 1505F G8L1000 | 1,000 FT | 45.000 LB | ORANGE, MATTE | C | #21 GIFHDLPE DBLB PVC |
| 1505F Z4B1000 | 1,000 FT | 45.000 LB | VIO Z4B | | #21 GIFHDLPE DBLB PVC |
| 1505F 0041000 | 1,000 FT | 45.000 LB | YELLOW | C | #21 GIFHDLPE DBLB PVC |

Notes:

C = CRATE REEL PUT-UP.

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