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1-800-Belden1



General Description:

20 AWG solid .032" bare copper conductor, plenum, foam FEP insulation, Duofoil® + tinned copper braid shield (95% coverage), Flamarrest® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (in.) |
|--------|-----|-----------|--------------------|------------|
| 1 | 20 | Solid | BC - Bare Copper | .032 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (in.) |
|-----------------------|--|------------|
| Teflon® | FFEP - Foam Fluorinated Ethylene Propylene | .133 |

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 | 95 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|--------------------------|
| Flamarrest® | PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 0.196 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

UL Temperature Rating: 75°C

Bulk Cable Weight: 29 lbs/1000 ft.

Max. Recommended Pulling Tension: 68 lbs.

Min. Bend Radius/Minor Axis: 2 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

CEC/C(UL) Specification: CMP

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): 04/01/2005

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: | NFPA 262 |
| CSA Flame Test: | FT6 |

Suitability

| | |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Plenum/Non-Plenum

| | |
|--------------------|-------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 1505A |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 75 |

Nom. Inductance:

| |
|---------------------------|
| Inductance (µH/ft) |
| 0.097 |

Nom. Capacitance Conductor to Shield:

| |
|----------------------------|
| Capacitance (pF/ft) |
| 16.1 |

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 84 |

Nominal Delay:

| |
|----------------------|
| Delay (ns/ft) |
| 1.21 |

Nom. Conductor DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 10.0 |

Nominal Outer Shield DC Resistance:

| |
|---------------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 3.2 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1.000 | 0.290 |
| 3.580 | 0.620 |
| 5.000 | 0.700 |
| 7.000 | 0.820 |
| 10.000 | 1.050 |
| 67.500 | 2.200 |
| 71.500 | 2.250 |
| 100.000 | 2.700 |
| 135.000 | 3.200 |
| 143.000 | 3.250 |
| 180.000 | 3.650 |
| 270.000 | 4.550 |
| 360.000 | 5.250 |
| 540.000 | 6.400 |
| 720.000 | 7.300 |
| 750.000 | 7.500 |
| 1000.000 | 9.000 |
| 1500.000 | 11.300 |
| 2250.000 | 14.400 |
| 3000.000 | 17.200 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Other Electrical Characteristic 1: Impedance tested in accordance with ASTM D-4566 paragraph 48.2, option 2 using a 75 Ohm fixed bridge and termination.

Other Electrical Characteristic 2: Return Loss tested in accordance with ASTM D-4566 paragraph 50.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
|-------------------|------------------|--------------|

| | | |
|----------|----------|--------|
| 5.000 | 1600.000 | 23.000 |
| 1600.000 | 4500.000 | 21.000 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 3 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------------|-------|--------------------|
| 1506A N3U1000 | 1,000 FT | 31.000 LB | GREEN, MIL | C Z | #20 FFEP SH FLMRST |
| 1506A 0011000 | 1,000 FT | 31.000 LB | BROWN | C Z | #20 FFEP SH FLMRST |
| 1506A 0021000 | 1,000 FT | 31.000 LB | RED | C Z | #20 FFEP SH FLMRST |
| 1506A 0031000 | 1,000 FT | 31.000 LB | ORANGE | Z | #20 FFEP SH FLMRST |
| 1506A 0041000 | 1,000 FT | 31.000 LB | YELLOW | Z | #20 FFEP SH FLMRST |
| 1506A 0061000 | 1,000 FT | 31.000 LB | BLUE, LIGHT | C Z | #20 FFEP SH FLMRST |
| 1506A 0071000 | 1,000 FT | 31.000 LB | VIOLET | C Z | #20 FFEP SH FLMRST |
| 1506A 0081000 | 1,000 FT | 31.000 LB | GRAY | Z | #20 FFEP SH FLMRST |
| 1506A 0101000 | 1,000 FT | 31.000 LB | BLACK | C | #20 FFEP SH FLMRST |
| 1506A 010500 | 500 FT | 16.500 LB | BLACK | C Z | #20 FFEP SH FLMRST |
| 1506A 8771000 | 1,000 FT | 31.000 LB | NATURAL | C | #20 FFEP SH FLMRST |
| 1506A 877500 | 500 FT | 16.500 LB | NATURAL | C Z | #20 FFEP SH FLMRST |

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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