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please call

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:**

|                        |
|------------------------|
| <b>Impedance (Ohm)</b> |
| 75                     |

**Nom. Inductance:**

|                           |
|---------------------------|
| <b>Inductance (µH/ft)</b> |
| 0.097                     |

**Nom. Capacitance Conductor to Shield:**

|                            |
|----------------------------|
| <b>Capacitance (pF/ft)</b> |
| 16.1                       |

**Nominal Velocity of Propagation:**

|               |
|---------------|
| <b>VP (%)</b> |
| 84            |

**Nominal Delay:**

|                      |
|----------------------|
| <b>Delay (ns/ft)</b> |
| 1.21                 |

**Nom. Conductor DC Resistance:**

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

**Nominal Outer Shield DC Resistance:**

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

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100 ft.) |
|-------------|--------------------------|
| 1           | .29                      |
| 3.58        | .62                      |
| 5           | .70                      |
| 7           | .82                      |
| 10          | 1.05                     |
| 67.5        | 2.20                     |
| 71.5        | 2.25                     |
| 100         | 2.70                     |
| 135         | 3.20                     |
| 143         | 3.25                     |
| 180         | 3.65                     |
| 270         | 4.55                     |
| 360         | 5.25                     |
| 540         | 6.4                      |
| 720         | 7.3                      |
| 750         | 7.5                      |
| 1000        | 9.4                      |
| 1500        | 12.8                     |
| 2250        | 17.5                     |
| 3000        | 21.9                     |

**Max. Operating Voltage - UL:**

|                |
|----------------|
| <b>Voltage</b> |
| 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#37; 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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