

1506A Coax - RG-59/U Type



For more information please
call

1-800-Belden1

See Put-ups and Colors

Description:

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

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|------------------|
| Number of Coax | 1 |
| Total Number of Conductors | 1 |
| RG Type | 59/U |
| AWG | 20 |
| Stranding | Solid |
| Conductor Diameter | .032 in. |
| Conductor Material | BC - Bare Copper |

INSULATION:

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

OUTER SHIELD:

| | |
|----------------------------------|------------|
| Outer Shield Material Trade Name | Duofoil® |
| Outer Shield Type | Tape/Braid |

Outer Shield Material :

| Layer Number | Trade Name | Type | Material | % Coverage (%) |
|--------------|------------|-------|---|----------------|
| 1 | Duofoil® | Tape | Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | TC - Tinned Copper | 95 |

| | |
|-------------------------|-------|
| Outer Shield % Coverage | 100 % |
|-------------------------|-------|

OUTER JACKET:

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

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .196 in. |
|--------------------------|----------|

MECHANICAL CHARACTERISTICS:

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| | |
|----------------------------------|-----------------|
| Operating Temperature Range | -20°C To +75°C |
| UL Temperature Rating | 75°C |
| Bulk Cable Weight | 27 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 52 lbs. |
| Min. Bend Radius (Install) | 2 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification | CMP |
| CEC/C(UL) Specification | CMP |
| EU CE Mark (Y/N) | Yes |
| EU RoHS Compliant (Y/N) | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |

FLAME TEST:

| | |
|---------------|----------|
| UL Flame Test | NFPA 262 |
|---------------|----------|

SWEEP TEST:

| | |
|---------------|-----------------------------------|
| Sweep Testing | 100% Sweep tested 5 MHz to 3 GHz. |
|---------------|-----------------------------------|

SUITABILITY:

| | |
|-----------------------|-----|
| Suitability - Indoor | Yes |
| Suitability - Outdoor | No |

PLENUM/NON-PLENUM:

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

ELECTRICAL CHARACTERISTICS:

| | |
|---|-------------------|
| Nom. Characteristic Impedance | 75 Ohms |
| Nom. Inductance | 0.097 µH/ft |
| Nom. Capacitance Conductor to Shield | 16.1 pF/ft |
| Nominal Velocity of Propagation | 84 % |
| Nominal Delay | 1.21 ns/ft |
| Nom. Conductor DC Resistance @ 20 Deg. C | 10.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20 Deg.C | 3.2 Ohms/1000 ft |

Minimum Structural Return Loss :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Minimum Structural Return Loss (dB) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------------|
| | | 5 | 850 | 23 |
| | | 851 | 3000 | 21 |

Nom. Attenuation :

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| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. 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 | 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 ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination. |

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|---------------|--------------------|--------------|--------------------|--------------|-------|
| 1506A 0011000 | #20 FFEP SH FLMRST | 1000 | 29 | BROWN | C Z |
| 1506A 0021000 | #20 FFEP SH FLMRST | 1000 | 29 | RED | C Z |
| 1506A 0031000 | #20 FFEP SH FLMRST | 1000 | 29 | ORANGE | Z |
| 1506A 0041000 | #20 FFEP SH FLMRST | 1000 | 29 | YELLOW | Z |
| 1506A 0061000 | #20 FFEP SH FLMRST | 1000 | 29 | BLUE, LIGHT | C Z |
| 1506A 0071000 | #20 FFEP SH FLMRST | 1000 | 29 | VIOLET | C Z |
| 1506A 0081000 | #20 FFEP SH FLMRST | 1000 | 29 | GRAY | Z |
| 1506A 0101000 | #20 FFEP SH FLMRST | 1000 | 29 | BLACK | C |
| 1506A 010500 | #20 FFEP SH FLMRST | 500 | 14.5 | BLACK | C Z |
| 1506A 8771000 | #20 FFEP SH FLMRST | 1000 | 29 | NATURAL | C |

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|---------------|-----------------------|------|------|------------|-----|
| 1506A 877500 | #20 FFEP SH FLMRST | 500 | 14.5 | NATURAL | C Z |
| 1506A N3U1000 | #20 FFEP SH FLMRST | 1000 | 29 | GREEN, MIL | C Z |

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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