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1-800-Belden1



### Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1      | 20  | Solid     | BC - Bare Copper   | 0.8128    |

#### Insulation

Insulation Material:

| Insulation Material                                 | Dia. (mm) |
|-----------------------------------------------------|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 3.683     |

#### 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 Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

#### Overall Cabling

Overall Nominal Diameter: 5.918 mm

### Mechanical Characteristics (Overall)

|                                        |                |
|----------------------------------------|----------------|
| Operating Temperature Range:           | -30°C To +75°C |
| UL Temperature Rating:                 | 75°C           |
| Bulk Cable Weight:                     | 46.134 Kg/Km   |
| Max. Recommended Pulling Tension:      | 209.065 N      |
| Min. Bend Radius (Install)/Minor Axis: | 63.500 mm      |

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

|                                       |            |
|---------------------------------------|------------|
| NEC/(UL) Specification:               | CMR        |
| CEC/C(UL) Specification:              | CMG        |
| 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: | UL1666 Vertical Shaft |
|----------------|-----------------------|

**Suitability**

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

|                        |                  |
|------------------------|------------------|
| Suitability - Outdoor: | Yes - Black only |
|------------------------|------------------|

|                       |                                                      |
|-----------------------|------------------------------------------------------|
| Suitability - Aerial: | Yes - Black only, when supported by a messenger wire |
|-----------------------|------------------------------------------------------|

**Plenum/Non-Plenum**

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

|                |       |
|----------------|-------|
| Plenum Number: | 1506A |
|----------------|-------|

**Electrical Characteristics (Overall)****Nom. Characteristic Impedance:**

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

|    |
|----|
| 75 |
|----|

**Nom. Inductance:**

|                   |
|-------------------|
| Inductance (μH/m) |
|-------------------|

|          |
|----------|
| 0.351067 |
|----------|

**Nom. Capacitance Conductor to Shield:**

|                    |
|--------------------|
| Capacitance (pF/m) |
|--------------------|

|         |
|---------|
| 53.4803 |
|---------|

**Nominal Velocity of Propagation:**

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

|    |
|----|
| 83 |
|----|

**Nominal Delay:**

|              |
|--------------|
| Delay (ns/m) |
|--------------|

|         |
|---------|
| 4.00282 |
|---------|

**Nom. Conductor DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
|---------------------|

|       |
|-------|
| 32.81 |
|-------|

**Nominal Outer Shield DC Resistance:**

|                     |
|---------------------|
| DCR @ 20°C (Ohm/km) |
|---------------------|

|         |
|---------|
| 12.4678 |
|---------|

**Nom. Attenuation:**

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
|-------------|-----------------------|

|       |       |
|-------|-------|
| 1.000 | 0.984 |
|-------|-------|

|       |       |
|-------|-------|
| 3.600 | 1.969 |
|-------|-------|

|       |       |
|-------|-------|
| 5.000 | 2.067 |
|-------|-------|

|       |       |
|-------|-------|
| 6.000 | 2.264 |
|-------|-------|

|       |       |
|-------|-------|
| 7.000 | 2.428 |
|-------|-------|

|        |       |
|--------|-------|
| 10.000 | 2.953 |
|--------|-------|

|        |       |
|--------|-------|
| 12.000 | 2.986 |
|--------|-------|

|        |       |
|--------|-------|
| 25.000 | 4.265 |
|--------|-------|

|        |       |
|--------|-------|
| 67.500 | 6.726 |
|--------|-------|

|        |       |
|--------|-------|
| 71.500 | 6.890 |
|--------|-------|

|        |       |
|--------|-------|
| 88.500 | 7.218 |
|--------|-------|

|         |       |
|---------|-------|
| 100.000 | 7.546 |
|---------|-------|

|         |       |
|---------|-------|
| 135.000 | 8.859 |
|---------|-------|

|         |       |
|---------|-------|
| 143.000 | 9.187 |
|---------|-------|

|          |        |
|----------|--------|
| 180.000  | 10.171 |
| 270.000  | 12.468 |
| 360.000  | 14.436 |
| 540.000  | 18.046 |
| 720.000  | 20.998 |
| 750.000  | 21.327 |
| 1000.000 | 24.936 |
| 1500.000 | 30.513 |
| 2000.000 | 35.763 |
| 3000.000 | 43.965 |
| 2250.000 | 38.060 |
| 4500.000 | 53.808 |

**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. 75 +/- 1.5 Ohms

**Other Electrical Characteristic 2:**

Return Loss tested in accordance with ASTM 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                 | 1600             | 23           |
| 1600              | 4500             | 21           |

**Sweep Test****Sweep Testing:**

100% Sweep tested 5 MHz to 4.5 GHz.

**Misc. Information (Overall)****Notes (Overall)**

**Notes:** Also available in bundled versions. See 7794A through 7798A.

**Related Documents:**

No related documents are available for this product

**Put Ups and Colors:**

| Item #        | Putup    | Ship Weight | Color       | Notes | Item Desc                |
|---------------|----------|-------------|-------------|-------|--------------------------|
| 1505A N3U1000 | 305 MT   | 15.876 KG   | GREEN, MIL  | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A N3U5000 | 1,524 MT | 74.843 KG   | GREEN, MIL  | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0011000 | 305 MT   | 15.876 KG   | BROWN       | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0015000 | 1,524 MT | 74.843 KG   | BROWN       | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0021000 | 305 MT   | 15.876 KG   | RED         | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 002500  | 152 MT   | 7.031 KG    | RED         | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0025000 | 1,524 MT | 74.843 KG   | ORANGE      | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0031000 | 305 MT   | 15.876 KG   | ORANGE      | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0035000 | 1,524 MT | 74.843 KG   | ORANGE      | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0041000 | 305 MT   | 15.876 KG   | YELLOW      | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0045000 | 1,524 MT | 74.843 KG   | YELLOW      | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0061000 | 305 MT   | 15.876 KG   | BLUE, LIGHT | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 006500  | 152 MT   | 7.031 KG    | BLUE, LIGHT | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0065000 | 1,524 MT | 74.843 KG   | BLUE, LIGHT | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0071000 | 305 MT   | 15.876 KG   | VIOLET      | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0075000 | 1,524 MT | 74.843 KG   | VIOLET      | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0081000 | 305 MT   | 15.876 KG   | GRAY        | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0085000 | 1,524 MT | 74.843 KG   | GRAY        | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0091000 | 305 MT   | 15.876 KG   | WHITE       | C     | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0095000 | 1,524 MT | 74.843 KG   | WHITE       | C N   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0101000 | 305 MT   | 15.876 KG   | BLACK       | C     | #20 PE/GIFHDPE SH FR PVC |

## METRIC MEASUREMENT VERSION

### 1505A Coax - RG-59/U Type

|               |          |           |       |     |                          |
|---------------|----------|-----------|-------|-----|--------------------------|
| 1505A 010500  | 152 MT   | 7.031 KG  | BLACK | C   | #20 PE/GIFHDPE SH FR PVC |
| 1505A 0105000 | 1,524 MT | 74.843 KG | BLACK | C N | #20 PE/GIFHDPE SH FR PVC |

**Notes:**

C = CRATE REEL PUT-UP.

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

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