

1505A Coax - RG-59/U Type

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|  |  | <p style="text-align: center;">For more information please call 1-800-Belden1</p> <p style="text-align: center;"><u>See Put-ups and Colors</u></p> |
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Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC 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 | Gas-injected FHDPE - Foam High Density Polyethylene |
| Insulation Diameter | .145 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 | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .233 in. |
|--------------------------|----------|

MECHANICAL CHARACTERISTICS:

| | |
|-----------------------------|----------------|
| Operating Temperature Range | -30°C To +75°C |
| UL Temperature Rating | 75°C |

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|----------------------------------|-----------------|
| Bulk Cable Weight | 31 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 47 lbs. |
| Min. Bend Radius (Install) | 2.5 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

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

FLAME TEST:

| | |
|---------------|-----------------------|
| UL Flame Test | UL1666 Vertical Shaft |
|---------------|-----------------------|

SWEEP TEST:

| | |
|---------------|-------------------------------------|
| Sweep Testing | 100% Sweep tested 5 MHz to 4.5 GHz. |
|---------------|-------------------------------------|

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) | N |
| Plenum Number | 1506A |

ELECTRICAL CHARACTERISTICS:

| | |
|---|-------------------|
| Nom. Characteristic Impedance | 75 Ohms |
| Nom. Inductance | 0.107 μ H/ft |
| Nom. Capacitance Conductor to Shield | 16.3 pF/ft |
| Nominal Velocity of Propagation | 83 % |
| Nominal Delay | 1.22 ns/ft |
| Nom. Conductor DC Resistance @ 20 Deg. C | 10.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20 Deg.C | 3.8 Ohms/1000 ft |

Minimum Return Loss :

| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Minimum Return Loss (dB) |
|-------------|-----------------|-----------------------|----------------------|--------------------------|
| | | 5 | 1600 | 23 |
| | | 1600 | 4500 | 21 |

Nom. Attenuation :

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| Description | Frequency (MHz) | Start Frequency (MHz) | Stop Frequency (MHz) | Nom. Attenuation (dB/100 ft.) |
|-------------|-----------------|-----------------------|----------------------|-------------------------------|
| | 1 | | | .3 |
| | 3.6 | | | .6 |
| | 5 | | | .63 |
| | 7 | | | .74 |
| | 10 | | | .9 |
| | 67.5 | | | 2.05 |
| | 71.5 | | | 2.1 |
| | 88.5 | | | 2.2 |
| | 100 | | | 2.3 |
| | 135 | | | 2.7 |
| | 143 | | | 2.8 |
| | 180 | | | 3.1 |
| | 270 | | | 3.8 |
| | 360 | | | 4.4 |
| | 540 | | | 5.5 |
| | 720 | | | 6.4 |
| | 750 | | | 6.5 |
| | 1000 | | | 7.6 |
| | 1500 | | | 9.3 |
| | 2000 | | | 10.9 |
| | 2250 | | | 11.6 |
| | 3000 | | | 13.4 |
| | 4500 | | | 16.4 |

| | |
|-----------------------------------|---|
| 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. 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. |

NOTES:

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| Notes | Also available in bundled versions. See 7794A through 7798A. |
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PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|---------------|-----------------------------|--------------|--------------------|--------------|-------|
| 1505A 0011000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | BROWN | C |
| 1505A 0015000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | BROWN | C N |
| 1505A 0021000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | RED | C |
| 1505A 002500 | #20 PE/GIFHDPE SH FR PVC | 500 | 15.5 | RED | C |
| 1505A 0025000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | RED | C N |
| 1505A 0031000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | ORANGE | C |

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| | | | | | |
|---------------|-----------------------------|------|------|-------------|-----|
| 1505A 0035000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | ORANGE | C N |
| 1505A 0041000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | YELLOW | C |
| 1505A 0045000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | YELLOW | C N |
| 1505A 0061000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | BLUE, LIGHT | C |
| 1505A 006500 | #20 PE/GIFHDPE SH FR PVC | 500 | 15.5 | BLUE, LIGHT | C |
| 1505A 0065000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | BLUE, LIGHT | C N |
| 1505A 0071000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | VIOLET | C |
| 1505A 0075000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | VIOLET | C N |
| 1505A 0081000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | GRAY | C |
| 1505A 0085000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | GRAY | C N |
| 1505A 0091000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | WHITE | C |
| 1505A 0095000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | WHITE | C N |
| 1505A 0101000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | BLACK | C |
| 1505A 010500 | #20 PE/GIFHDPE SH FR PVC | 500 | 15.5 | BLACK | C |
| 1505A 0105000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | BLACK | C N |
| 1505A N3U1000 | #20 PE/GIFHDPE SH FR PVC | 1000 | 35 | GREEN, MIL | C |
| 1505A N3U5000 | #20 PE/GIFHDPE SH FR PVC | 5000 | 165 | GREEN, MIL | C N |

C = CRATE REEL PUT-UP.

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

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