Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



1505F Coax - RG-59/U Type



For more Information please call

1-800-Belden1



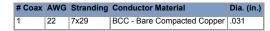
General Description:

22 AWG stranded (7x29) .031" bare compacted copper conductor, gas-injected foam HDPE insulation, tinned copper double braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

Insulation

Insulation Material:



Outer Shield

Outer Shield Material:

| Layer # | Type | Outer Shield Material | Coverage (%) |
|---------|-------|-----------------------|--------------|
| 1 | Braid | TC - Tinned Copper | 95.000 |
| 2 | Braid | TC - Tinned Copper | 95.000 |

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cable

Overall Nominal Diameter: 0.242 in.

Mechanical Characteristics (Overall)

| Operating Temperature Range: | -35°C To +75°C |
|-----------------------------------|-----------------|
| UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 41 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 88 lbs. |
| Min. Bend Radius/Minor Axis: | 2.500 in. |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| NEC/(UL) Specification: | CM |
|---------------------------------------|------------|
| CEC/C(UL) Specification: | CM |
| 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): | 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 |

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| | | 13031 COAX - NG-391 | о туре |
|--------------------------|------------------------------|---------------------|--------|
| | | | |
| Flame Tes | t | | |
| UL Flan | ne Test: | UL1685 UL Loading | |
| Suitability | | | |
| | lity - Indoor: | Yes | |
| | | | |
| Plenum/No | | | |
| Plenum | ı (Y/N): | No | |
| Electrical | Characteristics (Ove | erall) | |
| | cteristic Impedance: | · | |
| Impedane 75 | ce (Ohm) | | |
| Nom. Induct | ance: | | |
| Inductan | | | |
| | itanaa Candustanta Shiald | | |
| Capacita | itance Conductor to Shield | • | |
| 17.0 | | | |
| | ocity of Propagation: | | |
| VP (%) | | | |
| | | | |
| Nominal Del Delay (ns | - | | |
| 1.3 | 5/11) | | |
| Nom. Condu | uctor DC Resistance: | | |
| DCR @ 2 | 0°C (Ohm/1000 ft) | | |
| 12.2 | | | |
| Nominal Out | ter Shield DC Resistance: | | |
| DCR @ 2 | 0°C (Ohm/1000 ft) | | |
| 2.4 | | | |
| Nom. Attenu | uation: | | |
| Freq. (MH | Hz) Attenuation (dB/100 ft.) | | |
| 1.000 | 0.200 | | |
| 3.600 | 0.500 | | |
| 5.000 | 0.600 | | |
| 6.000 | 0.670 | | |
| 7.000 10.000 | 0.730 | | |
| 12.000 | 0.980 | | |
| 25.000 | 1.440 | | |
| 67.500 | 2.400 | | |
| 71.500 | 2.500 | | |
| 88.500 | 2.800 | | |
| 100.000 | 3.000 | | |
| 135.000 | 3.500 | | |
| 143.000 | 3.600 | | |
| 180.000 | 4.100 | | |
| 270.000 360.000 | 5.100 6.000 | | |
| 540.000 | 7.400 | | |
| 720.000 | 8.700 | | |
| 1000.000 | | | |
| 750.000 | 8.900 | | |

Max. Operating Voltage - UL:

1500.000 13.300 2000.000

15.700

16.900 20.300

28.200

Voltage 300 V RMS

2250.000

3000.000 4500.000

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.

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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) |
|-------------------|------------------|--------------|
| 5.000 | 850.000 | 20.000 |
| 851.000 | 4500.000 | 15.000 |

Sweep Test

Sweep Testing: 100% Sweep tested 5 MHz to 4.5 GHz.

Notes (Overall)

Notes: Compacted conductor combines impedance uniformity of solid conductors and "nick-resistance" of stranded conductor.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|---------------|-------|------------------------|
| 1505F B591000 | 1,000 FT | 45.000 LB | BLACK, MATTE | С | #21 GIFHDLDPE DBLB PVC |
| 1505F G7V1000 | 1,000 FT | 45.000 LB | RED, MATTE | С | #21 GIFHDLDPE DBLB PVC |
| 1505F G7W1000 | 1,000 FT | 45.000 LB | GREEN, MATTE | С | #21 GIFHDLDPE DBLB PVC |
| 1505F G7X1000 | 1,000 FT | 45.000 LB | BLUE, MATTE | С | #21 GIFHDLDPE DBLB PVC |
| 1505F G7Y1000 | 1,000 FT | 45.000 LB | WHITE, MATTE | С | #21 GIFHDLDPE DBLB PVC |
| 1505F G8L1000 | 1,000 FT | 45.000 LB | ORANGE, MATTE | С | #21 GIFHDLDPE DBLB PVC |
| 1505F Z4B1000 | 1,000 FT | 45.000 LB | VIO Z4B | | #21 GIFHDLDPE DBLB PVC |
| 1505F 0041000 | 1,000 FT | 45.000 LB | YELLOW | С | #21 GIFHDLDPE DBLB PVC |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 9 Revision Date: 08-01-2013

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product.
Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.

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