

7711A Coax - RG-6/U Type



For more Information
please call

1-800-Belden1



General Description:

RG-6/U type, 18 AWG solid .040" bare copper conductors, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), overall PVC jacket.

Usage (Overall)

Suitable Applications: Video Mult.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 4 | 18 | Solid | BC - Bare Copper | 1.016 |

Total Number of Conductors: 4

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 4.572 |

Inner Shield

Inner Shield Material:

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

Inner Jacket

Inner Jacket Material:

| Inner Jacket Material | Nom. Dia. (mm) |
|--------------------------|----------------|
| PVC - Polyvinyl Chloride | 6.985 |

Inner Jacket Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Red |
| 2 | Green |
| 3 | Blue |
| 4 | White |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 22.860 mm

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -40°C To +75°C |
| UL Temperature Rating: | 60°C |
| Non-UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 461.342 Kg/Km |
| Max. Recommended Pulling Tension: | 1227.700 N |
| Min. Bend Radius/Minor Axis: | 228.600 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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

| | |
|---------------------------------------|--|
| AWM Specification: | UL Style 1354 (each coax); UL Style 2688 (overall) |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | No |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MIL Order #39 (China RoHS): | Yes |
| RG Type: | 6/U |

Flame Test

| | |
|-----------------|-----|
| CSA Flame Test: | FT4 |
|-----------------|-----|

Suitability

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

Plenum/Non-Plenum

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

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) |
|-----------------|
| 75 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 53.4803 |

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 82 |

Nominal Delay:

| Delay (ns/m) |
|--------------|
| 4.06844 |

Nom. Conductor DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 20.9984 |

Nom. Inner Shield DC Resistance:

| DCR @ 20°C (Ohm/km) |
|---------------------|
| 9.843 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 0.787 |
| 3.580 | 1.444 |
| 5.000 | 1.706 |
| 7.000 | 2.001 |
| 10.000 | 2.330 |
| 67.500 | 5.414 |
| 71.500 | 5.545 |
| 88.500 | 6.103 |
| 100.000 | 6.398 |
| 135.000 | 7.349 |
| 143.000 | 7.546 |
| 180.000 | 8.432 |
| 270.000 | 10.401 |
| 360.000 | 12.107 |
| 540.000 | 15.093 |
| 720.000 | 17.652 |
| 750.000 | 18.046 |
| 1000.000 | 21.064 |
| 1500.000 | 26.215 |

| | |
|----------|--------|
| 2000.000 | 30.743 |
| 2250.000 | 32.843 |
| 3000.000 | 38.650 |
| 4500.000 | 48.231 |

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.

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 Structural Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------------|------------------|---------------|
| 5.000 | 1600.000 | 23.000 |
| 1600.000 | 4500.000 | 21.000 |

Sweep Test

Sweep Testing:

Sweep tested 5 MHz to 4.5 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|--------------|-------|-----------------------|
| 7711A B591000 | 305 MT | 158.758 KG | BLACK, MATTE | C | 4 #18 PE SH PVC FRTPE |
| 7711A B59500 | 152 MT | 77.565 KG | BLACK, MATTE | C | 4 #18 PE SH PVC FRTPE |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 6 Revision Date: 05-01-2013

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