

2731RW Coax - RG11 Indoor/Outdoor Stadium Cable



For more Information
please call

1-800-Belden1

**General Description:**

RG-11/U type, 14 AWG solid .064" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Usage (Overall)

Suitable Applications: SMPTE 2081-1 6 Gb/s UHDTV, SMPTE 424M 3 Gb/s HD-SDI 1080p

Physical Characteristics (Overall)**Conductor**

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|--------------------|-----------|
| 1 | 14 | Solid | BC - Bare Copper | 1.6256 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---|-----------|
| Gas-injected FHDPE - Foam High Density Polyethylene | 7.112 |

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 Shield Separator Material: Water blocking tape (between braid and jacket)

Outer Jacket

Outer Jacket Material:

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

Overall Cable

Overall Nominal Diameter: 10.287 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +60°C

UL Temperature Rating: 60C

Bulk Cable Weight: 129.473 Kg/Km

Max. Recommended Pulling Tension: 644.989 N

Min. Bend Radius/Minor Axis: 101.600 mm

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

NEC/(UL) Specification: CMR

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

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| | |
|---------------------------------------|------------|
| 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 |
| MII Order #39 (China RoHS): | Yes |
| RG Type: | 11/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 messenger wire. |
| Suitability - Burial: | No |
| Sunlight Resistance: | Yes - Black only. |

Plenum/Non-Plenum

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

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

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

Nom. Inductance:

| |
|-------------------|
| Inductance (μH/m) |
| 0.318257 |

Nom. Capacitance Conductor to Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 52.496 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 85 |

Nominal Delay:

| |
|--------------|
| Delay (ns/m) |
| 3.97001 |

Nom. Conductor DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 8.2025 |

Nominal Outer Shield DC Resistance:

| |
|---------------------|
| DCR @ 20°C (Ohm/km) |
| 4.9215 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1.000 | 0.525 |
| 3.580 | 0.951 |
| 5.000 | 1.116 |
| 7.000 | 1.280 |
| 10.000 | 1.509 |
| 67.500 | 3.445 |

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| | |
|----------|--------|
| 71.500 | 3.576 |
| 88.500 | 3.970 |
| 100.000 | 4.200 |
| 135.000 | 4.823 |
| 143.000 | 4.954 |
| 180.000 | 5.545 |
| 270.000 | 6.464 |
| 360.000 | 7.579 |
| 540.000 | 9.416 |
| 720.000 | 11.155 |
| 750.000 | 11.319 |
| 800.000 | 11.812 |
| 1000.000 | 13.518 |
| 1500.000 | 16.733 |
| 2000.000 | 19.817 |
| 2250.000 | 21.097 |
| 3000.000 | 25.034 |
| 4500.000 | 31.366 |
| 6000.000 | 37.830 |

Max. Operating Voltage - UL:

| |
|----------------|
| Voltage |
| 300 V RMS |

Other Electrical Characteristic 1:

TDR Impedance: 75 +/- 3 Ohms

Other Electrical Characteristic 2:

Return Loss: Fixed bridge and termination.

Minimum Return Loss:

| Start Freq. (MHz) | Stop Freq. (MHz) | Min. RL (dB) |
|-------------------|------------------|--------------|
| 5.000 | 1600.000 | 23.000 |
| 1600.000 | 4500.000 | 21.000 |
| 4500.000 | 6000.000 | 15.000 |

Sweep Test**Sweep Testing:**

Sweep tested 5 MHz to 6 GHz.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------|-------|-------------|-------|-------|-----------|
|--------|-------|-------------|-------|-------|-----------|

Revision Number: 0 Revision Date: 04-21-2017

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