

|                                   |         |                   |
|-----------------------------------|---------|-------------------|
| <b>TECHNICAL DATA SHEET</b>       | code    | <b>7784ECH</b>    |
|                                   | version | <b>1</b>          |
|                                   | date    | <b>2011-01-03</b> |
| <b>Triax 11 camera cable FRNC</b> | page    | <b>1/2</b>        |

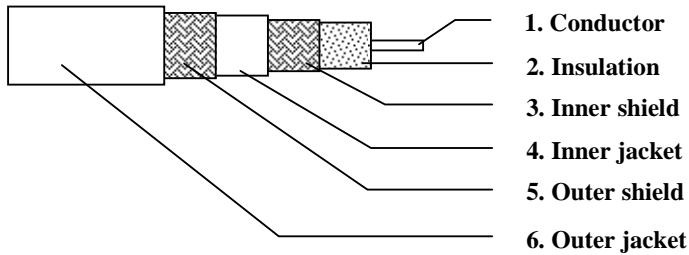
**APPLICATION**

Triaxial camera cable.

**DESCRIPTION**

Triaxial camera cable: 11mm metric triax with solid center conductor and FRNC jacket.

**CONSTRUCTION**




|                          |                   |
|--------------------------|-------------------|
| <b>1. Conductor</b>      |                   |
| Material                 | Bare copper       |
| Diameter                 | 1.40 mm (AWG15)   |
| <b>2. Insulation</b>     |                   |
| Material                 | Foam polyethylene |
| Diameter over insulation | 6.50 ± 0.20 mm    |
| <b>3. Inner shield</b>   |                   |
| Material                 | Bare copper braid |
| Minimum coverage         | 85%               |
| Diameter over braid      | 7.2 mm nominal    |
| <b>4. Inner jacket</b>   |                   |
| Material                 | FRNC              |
| Diameter over jacket     | 8.50 ± 0.20 mm    |
| <b>5. Outer shield</b>   |                   |
| Material                 | Bare copper braid |
| Minimum coverage         | 85%               |
| Diameter over braid      | 9.2 mm nominal    |
| <b>6. Outer jacket</b>   |                   |
| Material                 | FRNC              |
| Diameter over jacket     | 11.0 ± 0.2 mm     |

**REQUIREMENTS AND TEST METHODS**

**Electrical:**

|   |             |
|---|-------------|
| Nominal impedance                                 | 75 Ohms     |
| Nominal inductance                                | 0.4 µH/m    |
| Nominal capacitance conductor to shield @ 1 kHz   | 55 pF/m     |
| Nominal velocity of propagation                   | 81%         |
| Nominal delay                                     | 4.1 ns/m    |
| Nominal conductor DC resistance @ 20°C            | 11.2 Ohm/km |
| Nominal shield DC resistance @ 20°C: Inner shield | 7.4 Ohm/km  |
| Outer shield                                      | 5.5 Ohm/km  |

|   |                                   |         |                   |
|---|-----------------------------------|---------|-------------------|
| <br><b>BELDEN</b><br>SENDING ALL THE RIGHT SIGNALS | <b>TECHNICAL DATA SHEET</b>       | code    | <b>7784ECH</b>    |
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|   |              |
|---|--------------|
| Minimum structural return loss @ 5-850MHz | 23 dB        |
| Screening attenuation @ 30 to 850 MHz     | 75 dB        |
| Nominal attenuation @ 1 MHz               | 0.5 dB/100m  |
| 3.58 MHz                                  | 1.0 dB/100m  |
| 5 MHz                                     | 1.2 dB/100m  |
| 7 MHz                                     | 1.3 dB/100m  |
| 10 MHz                                    | 1.6 dB/100m  |
| 67.5 MHz                                  | 4.1 dB/100m  |
| 71.5 MHz                                  | 4.3 dB/100m  |
| 88.5 MHz                                  | 4.8 dB/100m  |
| 100 MHz                                   | 5.2 dB/100m  |
| 135 MHz                                   | 6.0 dB/100m  |
| 143 MHz                                   | 6.2 dB/100m  |
| 180 MHz                                   | 7.1 dB/100m  |
| 270 MHz                                   | 8.7 dB/100m  |
| 300 MHz                                   | 9.0 dB/100m  |
| 360 MHz                                   | 10.2 dB/100m |
| 540 MHz                                   | 12.8 dB/100m |
| 720 MHz                                   | 15.0 dB/100m |
| 750 MHz                                   | 15.4 dB/100m |
| 1000 MHz                                  | 18.2 dB/100m |
| 1500 MHz                                  | 23.0 dB/100m |
| 2000 MHz                                  | 27.4 dB/100m |
| 2250 MHz                                  | 29.4 dB/100m |
| 3000 MHz                                  | 35.1 dB/100m |
| Maximum operating voltage                 | 400 Vrms     |

**Mechanical and physical:**

|  |   |
|--|---|
| Temperature rating (installation)      | -5 to +70 °C                                  |
| Temperature rating (operating/storage) | -30 to +70 °C                                 |
| Resistance to flame propagation:       | To meet International Standard IEC 60332-3-24 |
| FRNC material:                         |   |
| Tensile strength:                      | ≥ 9.0 N/mm <sup>2</sup>                       |
| Elongation at break:                   | ≥ 125 %                                       |
| Corrosivity                            | To meet International Standard IEC 60754-2    |
| Smoke Density                          | To meet International Standard IEC 61034      |
| LOI                                    | >35%  |
| Minimum bending radius                 | 110 mm (without pulling tension)              |
| Maximum pulling tension                | 300 N   |



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.