

TECHNICAL DATA SHEET	code	7784E
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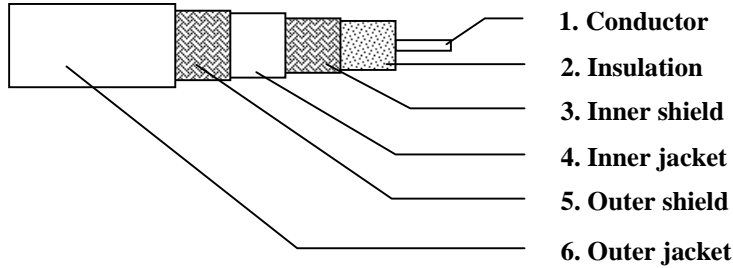
APPLICATION

Triaxial camera cable.

DESCRIPTION

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

CONSTRUCTION



1. Conductor

Material Bare copper
Diameter 1.40 mm (AWG15)

2. Insulation

Material Foam polyethylene
Diameter over insulation 6.50 ± 0.20 mm

3. Inner shield

Material Bare copper braid
Minimum coverage 85%
Diameter over braid 7.2 mm nominal

4. Inner jacket

Material Polyethylene
Diameter over jacket 8.50 ± 0.20 mm

5. Outer shield

Material Bare copper braid
Minimum coverage 85%
Diameter over braid 9.2 mm nominal

6. Outer jacket

Material PVC
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

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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)	-40 to +70 °C
Minimum bending radius (without pulling tension)	110 mm
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.