

TECHNICAL DATA SHEET	code	7783AF
	version	1
Triax 8 camera cable PVC	date	2011-11-16
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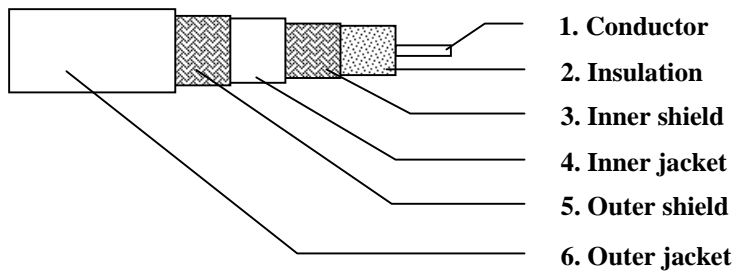
APPLICATION

Triaxial cable is used to interconnect video cameras to related equipment. Triax cables contain 2 isolated shields and a solid or stranded center conductor. Isolated shields allow the triax cable to provide multiple functions over 1 cable through multiplexing techniques.

DESCRIPTION

Triaxial camera cable: 8 mm metric triax with stranded center conductor and flexible PVC jacket.

CONSTRUCTION



1. Conductor	
Material	Stranded silver plated copper
Diameter	0.99 mm (7 x 0.32mm)
2. Insulation	
Material	Foam polyethylene
Diameter over insulation	4.52 ± 0.20 mm
3. Inner shield	
Material	Silver plated copper braid
Minimum coverage	90%
Diameter over braid	5.25 mm nominal
4. Inner jacket	
Material	Polyethylene
Diameter over jacket	6.6 ± 0.2 mm
5. Outer shield	
Material	Bare copper braid
Minimum coverage	85%
Diameter over braid	7.2 mm nominal
6. Outer jacket	
Material	PVC
Diameter over jacket	8.4 ± 0.2 mm

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REQUIREMENTS AND TEST METHODS

Electrical:

Nominal impedance	75 Ohms
Nominal inductance	0.4 μ H/m
Nominal capacitance conductor to shield @ 1 kHz	52 pF/m
Nominal velocity of propagation	83%
Nominal delay	4.1 ns/m
Nominal conductor DC resistance @ 20°C	32.0 Ohm/km
Nominal shield DC resistance @ 20°C: Inner shield	9.5 Ohm/km
Outer shield	9.5 Ohm/km
Minimum structural return loss @ 5-850 MHz	21 dB
Screening attenuation at 30 – 1000 MHz	\geq 75 dB
Nominal attenuation @ 1 MHz	0.6 dB/100m
10 MHz	2.2 dB/100m
20 MHz	3.2 dB/100m
40 MHz	4.6 dB/100m
50 MHz	5.1 dB/100m
60 MHz	5.6 dB/100m
100 MHz	7.5 dB/100m
300 MHz	13.8 dB/100m

Mechanical and physical:

Temperature rating (installation)	-5 to +70 °C
Temperature rating (operating/storage)	-40 to +70 °C
Minimum bending radius (without pulling tension)	80 mm
Maximum pulling tension	250 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.