

TECHNICAL DATA SHEET	code	7783ECH
	version	1
	date	2011-01-06
	page	1/2

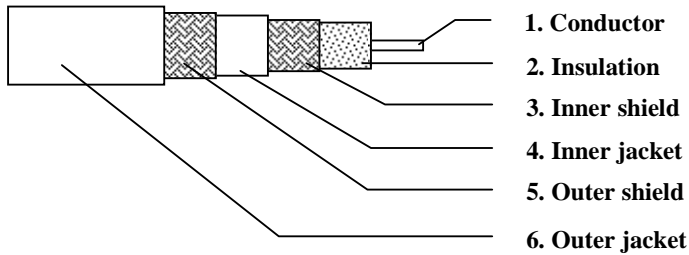
APPLICATION

Triaxial camera cable.

DESCRIPTION

Triaxial camera cable: 8 mm metric triax with solid center conductor and FRNC jacket.

CONSTRUCTION




1. Conductor		
Material		Bare copper
Diameter		1.02 mm (AWG38)
2. Insulation		
Material		Foam polyethylene
Diameter over insulation		4.57 ± 0.20 mm
3. Inner shield		
Material		Bare copper braid
Minimum coverage		85%
Diameter over braid		5.1 mm nominal
4. Inner jacket		
Material		FRNC
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		FRNC
Diameter over jacket		8.4 ± 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	52 pF/m
Nominal velocity of propagation	83%
Nominal delay	4.1 ns/m
Nominal conductor DC resistance @ 20°C	22.0 Ohm/km
Nominal shield DC resistance @ 20°C: Inner shield	16.0 Ohm/km
Outer shield	9.5 Ohm/km

	TECHNICAL DATA SHEET	code	7783ECH
		version	1
		date	2011-01-06
	Triax 8 camera cable FRNC	page	2/2

Minimum structural return loss @ 5-850MHz	23 dB
Nominal attenuation @ 1 MHz	0.7 dB/100m
5 MHz	1.5 dB/100m
10 MHz	2.2 dB/100m
70 MHz	5.7 dB/100m
100 MHz	6.9 dB/100m
140 MHz	8.2 dB/100m
200 MHz	9.8 dB/100m
300 MHz	12.2 dB/100m
400 MHz	14.2 dB/100m
500 MHz	16.0 dB/100m
700 MHz	19.1 dB/100m
800 MHz	20.5 dB/100m
1000 MHz	23.2 dB/100m
1500 MHz	29.0 dB/100m
2000 MHz	34.0 dB/100m
2400 MHz	37.8 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 ²
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 (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.