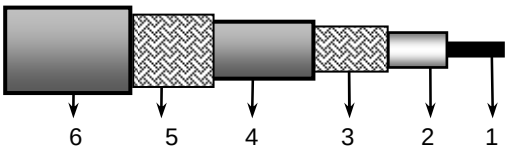
7784ECH

Low Loss Serial Digital Video coax Video Triax 11 FRNC cable



Applications

- Low loss HDTV/SDI Digital coax used in analog and digital video circuits and high quality applications.
- The cable is UV-resistant and suitable for indoor and outdoor use.
- Use of 1080p/50 applications

General Standards

- SDTV/HDTV serial digital standard compliant
- European standard EN 50117-1
- European standard EN 50290-2-20

Construction & Dimensions

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	FRNC
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	FRNC
Diameter over jacket	11.3 ± 0.2 mm

Mechanical characteristics

Parameter	Specification	Unit
Temperature rating (installation)	-5 - +70	°C
Temperature rating (operating/storage)	-30 - +70	°C
Resistance to flame propagation (IEC 60332-3-24: Cat C (CEI 20-22-3)	Pass	
Halogen content IEC 60754-1 (CEI 20-37/1)	Pass	
Corrosivity of fire gasses IEC 60754-2 (CEI 20-37/2)		
Conductivity	≤ 100	µS/cm
pH value	≥ 3,5	
Smoke emission EN 61034-2:2005 (CEI 20-37/3)	Pass	
Minimum bending radius (without pulling tension)	110	mm
Maximum pulling tension	300	N

Electrical characteristics

Parameter	Specification	Unit
Nominal impedance	75	Ω/km
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	Ω/km
Nominal shield DC resistance @ 20˚C: Inner shield	7.4	Ω/km
Nominal shield DC resistance @ 20˚C: Outer shield	5.5	Ω/km
Minimum structural return loss @ 5 - 850 MHz	23	dB
Minimum screening attenuation @ 30 - 850 MHz	75	dB
Maximum operating voltage	400	Vrms

Attenuation at:	Nominal	Unit
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

Attenuation at:	Nominal	Unit
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

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.