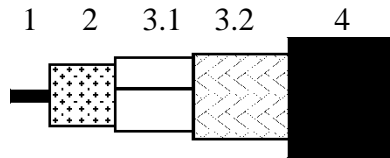


APPLICATION

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.

CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	AL-PET-AL
3.2	Braid	Annealed tinned copper
4	Sheath	LSNH/FRNC

REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

Mechanical characteristics

1. Inner conductor:	
Diameter:	1.63 mm ± 0.03 mm
2. Dielectric:	
Diameter:	7.11 mm ± 0.15 mm
3. Outer conductor:	
Nominal diameter screen:	7.95 mm
Foil overlap:	≥ 2 mm
Coverage braid:	95 % ± 5 %
4. Sheath:	
Diameter:	10.2 mm ± 0.2 mm
Tensile strength:	≥ 9.0 N/mm ²
Elongation at break:	≥ 125 %
Corrosivity	To meet EN 50290-2-27
5. Cable:	
Storage/operating temperature:	-30°C to +70°C
Minimum installation temperature:	-5 °C
Vertical flame spread:	IEC 60332-3-24: Cat C (CEI 20-22-3)
Halogen content	IEC 60754-1 (CEI 20-37/1)
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)
Maximum tensile strength of cable:	650 N
Minimum static bend radius:	100 mm

 BELDEN SENDING ALL THE RIGHT SIGNALS	TECHNICAL DATA SHEET	Code	7731ANH
		version	5
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Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Nominal DC resistance inner conductor:	$\leq 8.2 \Omega/\text{km}$
Nominal DC resistance outer conductor:	$\leq 4.9 \Omega/\text{km}$
Capacitance:	$53 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:	0.84 ± 0.02
Nominal delay:	3.97 ns/m
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	2 kVdc
Return loss at 5-850 MHz:	$\geq 23 \text{ dB}$
850-3000 MHz:	$\geq 21 \text{ dB}$

Attenuation at	Nominal	Attenuation at	Nominal
1 MHz:	0.5 dB/100m	720 MHz:	11.7 dB/100m
10 MHz:	1.5 dB/100m	750 MHz:	12.0 dB/100m
71.5 MHz:	3.6 dB/100m	1000 MHz:	14.1 dB/100m
135 MHz:	4.8 dB/100m	1500 MHz:	18.0 dB/100m
270 MHz:	6.9 dB/100m	2250 MHz:	22.6 dB/100m
360 MHz:	8.0 dB/100m	3000 MHz:	26.9 dB/100m
540 MHz:	10.0 dB/100m	4500 MHz:	34.1 dB/100m



Belden CDT believes 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.