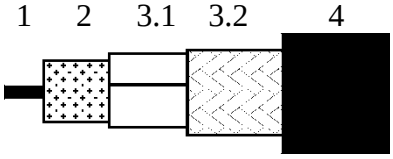
APPLICATION

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 according the European Standard HD 624.

REQUIREMENTS AND TEST METHODS

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

Mechanical characteristics

1. Inner conductor.	
Diameter:	1.02 mm ± 0.03 mm
2. Dielectric:	
Diameter:	4.57 mm ± 0.15 mm
3. Outer conductor:	
Nominal diameter screen:	5.4 mm
Foil overlap:	≥ 2 mm
Coverage braid:	95 % ± 5 %
4. Sheath:	
Diameter:	6.96 mm ± 0.2 mm
Tensile strength:	≥ 9.0 N/mm^2
Elongation at break:	≥ 125 %
Corrosivity	To meet European Standard HD602
LOI	> 35%
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 free according	IEC 62821-1 (2014)
Halogen content	IEC 60754-1 (CEI 20-37/1)
Corrosivity of fire gasses	IEC 60754-2 (CEI 20-37/2)
Conductivity	≤ 2.5 µS/mm
pH value	≥ 4.3
Smoke emission	EN 61034-2:2005 (CEI 20-37/3)
Reaction to fire according EN50575	B2ca-s1,d1,a1

Maximum tensile strength of cable:	300 N
Minimum static bend radius:	70 mm

Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Nominal DC resistance inner conductor:	21 Ω/km
Nominal DC resistance outer conductor:	9.2 Ω/km
Capacitance:	53 pF/m ± 2 pF/m
Velocity ratio:	0.82 ± 0.02
Nominal delay:	4.07 ns/m
Insulation resistance:	> 10^4 MΩ.km
Voltage test of dielectric:	2 kVdc
Return loss at 5-1600 MHz:	≥ 23 dB*
1600-4500 MHz:	≥ 21 dB*
4500-6000 MHz:	≥ 15 dB*

* Max. 1 peak value 4 dB lower than specified.

Attenuation at	Nominal	Attenuation at	Nominal
1 MHz:	0.79 dB/100m	180 MHz:	8.43 dB/100m
3.6 MHz:	1.44 dB/100m	270 MHz:	10.40 dB/100m
5 MHz:	1.71 dB/100m	360 MHz:	12.11 dB/100m
6 MHz:	1.87 dB/100m	540 MHz:	14.77 dB/100m
7 MHz:	2.00 dB/100m	720 MHz:	17.39 dB/100m
10 MHz:	2.33 dB/100m	750 MHz:	17.72 dB/100m
12 MHz:	2.56 dB/100m	1000 MHz:	20.67 dB/100m
25 MHz:	3.54 dB/100m	1500 MHz:	25.59 dB/100m
67.5 MHz	5.41 dB/100m	2000 MHz:	30.19 dB/100m
71.5 MHz:	5.55 dB/100m	2250 MHz:	32.15 dB/100m
88.5 MHz:	6.10 dB/100m	3000 MHz:	37.73 dB/100m
100 MHz:	6.40 dB/100m	4500 MHz:	47.58 dB/100m
135 MHz:	7.35 dB/100m	6000 MHz:	58.07 dB/100m
143 MHz:	7.55 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.