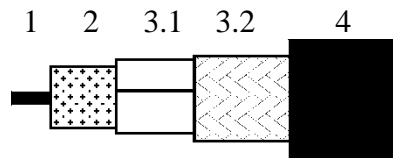


APPLICATION

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/mm²
 - 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: > 10⁴ 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.

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