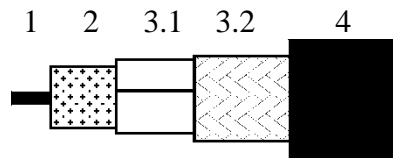


APPLICATION

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: 0.81 mm ± 0.03 mm
2. Dielectric:
 - Diameter: 3.68 mm ± 0.15 mm
3. Outer conductor:
 - Nominal diameter screen: 4.4 mm
 - Foil overlap: ≥ 2 mm
 - Coverage braid: 95 % ± 5 %
4. Sheath:
 - Diameter: 5.92 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 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: 200 N
 - Minimum static bend radius: 60 mm

Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Nominal DC resistance inner conductor:	32 Ω/km
Nominal DC resistance outer conductor:	12 Ω/km
Capacitance:	53 pF/m ± 2 pF/m
Velocity ratio:	0.83 ± 0.02
Nominal delay:	4.0 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*

Attenuation at	Nominal	Attenuation at	Nominal
1 MHz:	1.0 dB/100m	720 MHz:	21.0 dB/100m
3.6 MHz:	2.0 dB/100m	750 MHz:	21.3 dB/100m
10 MHz:	3.0 dB/100m	1000 MHz:	24.9 dB/100m
71.5 MHz:	6.9 dB/100m	1500 MHz:	30.5 dB/100m
135 MHz:	8.9 dB/100m	2250 MHz:	38.0 dB/100m
270 MHz:	12.5 dB/100m	3000 MHz:	44.0 dB/100m
360 MHz:	14.4 dB/100m	4500 MHz:	53.8 dB/100m
540 MHz:	18.1 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.