

Construction & Dimensions

Inner conductor	Solid soft annealed copper
Dielectric	Gas injected PE
Foil	Copper
Braid	Annealed copper
Sheath	PVC according the European Standard HD 624.

Inner conductor diameter:	1.2 mm ± 0.02 mm
Dielectric diameter:	5.4 mm ± 0.20 mm
Outer conductor diameter screen:	5.84 mm ± 0.25 mm
Sheath diameter:	7.1 mm ± 0.2 mm

Mechanical characteristics

Adhesion of dielectric:	7.8 – 78 N at 25 mm
Tensile strength of sheath:	≤ 12,5 N/mm ²
Elongation of sheath at break:	≥ 150 %
Crush resistance of cable:	< 1 % (load of 700N)
Storage temperature:	-40 °C to +70°C
Operating temperature:	-40 °C to +70°C

Minimum installation temperature:	-5 °C
Maximum tensile strength of cable:	55 N
Minimum static bend radius:	70 mm
Total weight:	47 g/m

Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 35 Ω/km
DC resistance inner conductor:	≤ 16 Ω/km
DC resistance outer conductor:	≤ 19 Ω/km
Capacitance:	54 pF/m ± 2 pF/m
Velocity ratio:	0.83 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	2 kV DC

Screening efficiency 30-1000 MHz: ≥ 85 dB

Return loss at	5-30 MHz:	≥ 23 dB*
	30-470 MHz:	≥ 23 dB*
	470-862 MHz:	≥ 20 dB*
	862-2400 MHz:	≥ 18 dB*

*Max. 3 peak values 4 dB lower than specified.

Attenuation at	Nominal
5 MHz:	1.1 dB/100m
50 MHz:	3.5 dB/100m
100 MHz:	5.1 dB/100m
200 MHz:	7.3 dB/100m
400 MHz:	10.5 dB/100m
600 MHz:	13.0 dB/100m
800 MHz:	15.2 dB/100m
1000 MHz:	17.1 dB/100m
1350 MHz:	20.2 dB/100m
1750 MHz:	23.4 dB/100m
2150 MHz:	26.2 dB/100m
2400 MHz:	27.9 dB/100m