

Coaxial cable for outdoor installation – 75 Ohm

Outer sheath made of LSZH material (shield class A++)



Ø	1,13	4,75	4,90	5,30	6,60
	(Cu)	(PEG)	(Al/Pet)	(CuSn)	(LSZH)

1.1 Standards.

EN 50117-2-5

1.2 Assembly.

Assembly	
Inner conductor made of copper:	(Cu) Ø 1.13 ± 0.02 mm
Dielectric of physical gas injection PE foam	(PEG) Ø 4.75 ± 0.10 mm
Outer foil in aluminium/polyester wrapped lengthwise:	(Al/Pet)
Water-repellent gel (dielectric):	(Jelly1)
Braid of tin-plated copper strand:	(CuSn)
Optical density of braid (IEC 96-1):	72 %
Diameter under cover:	5.30 mm
Outer cover made of thermoplastic black, halogen-free, low-smoke, fire-retardant and UV-resistant	(LSZH) Ø 6.60 ± 0.10 mm
Printed with yellow ink per meter:	hopf KA110109 LOW SMOKE ZERO HALOGEN – m XXX by CAVEL (info: XXX = meter specification / running meter)

1.3 Mechanical data.

Mechanical data		
Copper weight:	19.07	kg/km
Total weight of cable:	45.95	kg/km
Min. bending radius (one time / several times):	35 / 70	mm
Max. tensile load:	150	N
Fire load:	571 MJ/km	159 kWh/km

1.4 Electrical data.

Electrical data		
Wave impedance:	200 MHz	75 ± 3 Ohm
Capacity (@ 1kHz)		52 ± 2 pF/m
Velocity factor:	85 %	
Inner conductor resistance:	18	Ohm/km
Outer conductor resistance:	10.70	Ohm/km
Loop resistance:	28.70	Ohm/km
High-voltage testing (spark test):	3	kV
Operating current max. (Ieff):	8	A
Insertion loss:	5 – 470 MHz	> 30 dB
	470 – 1000 MHz	> 28 dB
	1000 – 2000 MHz	> 26 dB
	2000 – 3000 MHz	> 22 dB
Screening capability (class A++):	30 – 1000 MHz	> 112 dB
	1000 – 2000 MHz	> 104 dB
	2000 – 3000 MHz	> 91 dB
Transfer impedance (class A+):	5 – 30 MHz	< 2.5 mOhm/m
Attenuation (at 20°C)	frequency [MHz]	attenuation [dB/100m]
	5	1.40
	10	1.90
	30	3.00
	50	4.00
	200	8.10
	300	9.90
	470	12.60
	862	17.30
	1000	18.70
	1750	25.70
	2150	28.80
	2400	30.60
3000	34.10	

Screening Attenuation

A++ Class cable

