

Coax 9
A+



Making a choice has never been so easy! TKF introduces the new A+ coax 9 CATV cable

TKF introduces coax 9, a 75 Ohm CATV cable, recognisable by the green outer sheath that is required by law in the Netherlands. This cable distinguishes itself from coax 12 by an orange stripe on the outer \pounds mantel. This new type of cable can bridge up to 140 metres. This makes it possible to install CAI networks with fewer distribution points, so lower installation and maintenance costs. The result: a better network at lower costs.... Making a choice has never been so easy!

Cable description

The coax 9 CATV cable is mainly used as a client connection cable in CAI networks. The cable complies with the NEN EN 50117 standard on all fronts; the characteristic damping at 230 MHz is 8.4 dB. Connection is easy, since the coax 9 and coax 12 are the same size. The screen damping has greatly improved and complies with the latest CENELEC Screening Class A+ for CATV cables (draft),

so that the cable has excellent resistance to external interference signals, such as from Digitenne. The insulation is made up of 3 layers. As the outer layer is made of HDPE, damage during connection to the F connectors is prevented. In addition, in comparison to foamed inner cables the crush resistance has also vastly improved as a result.

Construction

Conductor	Slightly annealed, electrolytic copper, solid 1.08 mm
Insulation	Skin foam skin PE (polyethylene)
Outer conductor	One layer of copper band, folded lengthwise with an overlap, covered with plaited copper wire
Outer sheath	MDPE
Colour	Green with orange stripe
Text on sheath	CAI <year> TKF COAX 9 75 Ohm

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PRODUCT NEWS



Coax 9

Technical specifications

Electrical properties (at 20 °C)				
Damping	5 MHz	Typical value 1,2	Maximum value 1,3	dB/100 m
	50 MHz	3,9	4,3	dB/100 m
	100 MHz	5,5	6,1	dB/100 m
	200 MHz	7,9	8,7	dB/100 m
	230 MHz	8,4	9,3	dB/100 m
	400 MHz	11,7	12,3	dB/100 m
	862 MHz	17,1	18,0	dB/100 m
	1000 MHz	18,4	19,4	dB/100 m
	1350 MHz	21,7	22,5	dB/100 m
	1600 MHz	23,7	24,5	dB/100 m
	1750 MHz	25,1	25,7	dB/100 m
	2150 MHz	28,2	28,4	dB/100 m
	2550 MHz	30,8	31,0	dB/100 m
	3000 MHz	33,5	33,6	dB/100 m
Impedance	1-3000 MHz	75 +/- 2	75 +/- 3	Ω
Transfer impedance	5 MHz	< 0,2	< 0,8	mOhm/m
Reflection damping	5-30 MHz	Typical value > 28	Maximum value > 26	dB
	30-470 MHz	> 25	> 23	dB
	470-862 MHz	> 22	> 20	dB
	862-2150 MHz	> 20	> 18	dB
Screen damping	30-1000 MHz	> 100	> 95	dB
Max. resistance inner conductor (20 °C)			21	Ohm/km
Capacity*			52	nF/km
Induction*			0,40	mH/km
Wave velocity*			85	%
Test voltage * = typical value			1500	Volt d.c.

General technical specifications

Bend radius	35	mm
Maximum Tensile force	120	N
Temperature range		
Storage and service temperature:	-25/70	°C
Temperature during installation:	-5/55	°C

Size

Conductor	1,08 mm
Nominal thickness insulation	1,9 mm
Diameter over isolation	4,8 mm
Nominal thickness Plaiting wire	0,1 mm
Diameter over plaiting	5,4 mm
Nominal thickness sheath	0,7 mm
Diameter over sheath	6,8 mm
Weight	42 kg/km

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