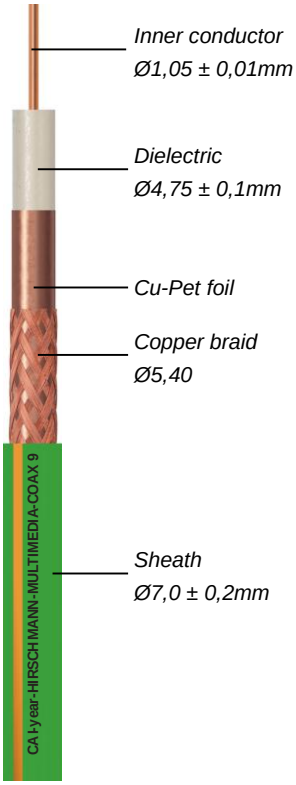
HIRSCHMANN
MULTIMEDIA

TECHNICAL SPECIFICATION

Digital Coaxial Cable

Coax 9



APPLICATION

75 Ohm digital coaxial cable used in broadband networks, HFC/CATV signal distribution.

STRUCTURAL SPECIFICATION

Inner conductor	Bare copper wire, diameter 1,05 ± 0,01mm
Dielectric	Foamed-PE with gas injection, diameter 4,75 ± 0,1mm
Outer Shield	Cu-Pet foil, bonded to dielectric, 12/20 µm, 20x0,05mm
	Bare copper braid, 47% coverage, diameter 5,40
Sheath	PE green RAL 6018 (orange stripe), diameter 7,0 ± 0,2mm

MECHANICAL SPECIFICATION

Operating temperature	-40 °C to +70 °C
Installation temperature	-5 °C to +50 °C
Min. bending radius	70 mm
Cable weight	42 kg/km
Max.pulling tension	> 120 N

ELECTRICAL SPECIFICATION

Characteristic impedance	75 ± 2 Ohm
Nominal capacitance	54 pF/m
Velocity ratio	85%
DC resistance (20 °C)	
Inner cond.	< 21 Ohm/km
Screen	< 16 Ohm/km

Attenuation (typical ± 0,5dB)	
5MHz	1,3 dB/100m
50MHz	4,3 dB/100m
100MHz	5,9 dB/100m
200MHz	8,1 dB/100m
860MHz	17,4 dB/100m
1000MHz	19,1 dB/100m
1750MHz	25,9 dB/100m
2150MHz	29,5 dB/100m
3000MHz	34,1 dB/100m

Screening attenuation	
30-1000MHz	> 90 dB (Class A)
1000-2000MHz	> 90 dB (Class A)
2000-3000MHz	> 90 dB (Class A)

Transfer impedance	
5-30MHz	< 8 mOhm/m

SRL	
5-470MHz	> 23 dB
470-1000MHz	> 20 dB
1000-2000MHz	> 18 dB
2000-3000MHz	> 16 dB

APPLIED STANDARDS

EN50117

CABLE MARKING

Colour	Black RAL 9005
Height	2mm

3 times: "CAI - week year - HIRSCHMANN-MULTIMEDIA - Coax 9, batchcode"

Lenght marking: every meter

PACKAGING

500m / wooden drum - 18x wooden drums/pallet

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