

RF cables according to DIN 47264, EN 50117-1 and IEC 61196



Fields of application

The radio frequency cables mentioned below, are used in transmitting and receiving installations of the wireless communications engineering as well as in the entire field of the commercial RF technology and electronics.

Standards

DIN 47264, EN 50117-1 and IEC 61196

Flame retardency

Cable construction

Inner conductor	Cu strand, bare 19 x 0.37 mm diameter 1.85± 0.05
Isolation	Cell-PE, diameter 5.0 ± 0.05 mm
Outer conductor	Cu-PET-Cu + Cu-braid, 90% optical coverage
Outer jacket	PVC, diameter 7.3 ± 0.2 mm, UV resistant
Colour	Black RAL 9005

Mechanical characteristics

Bending radius	without tensile load	5x outer diameter
	with tensile load	10x outer diameter
Temperature range	during operation	-30°C to +80°C
	during laying	-15°C to +55°C
UV-resistance	acc. to	IEC 60068-2-5

Electrical characteristics

at 20°C

Ohmic resistance	Inner conductor	8.6 Ω/km
	Outer conductor	8.5 Ω/km
Effective capacitance		75 pF/m
Velocity of propagation		83 %
Wave impedance	at 200 MHz	50 ± 2 Ω
Test voltage	Inner/outer conductor	2.0 kV _{eff}
	Jacket (spark test)	5 kV
Insulation resistance		≥ 10 GΩ*km
Operating voltage		1.0 kV _{eff}
Screening factor	100-1000 MHz	90 dB
Transfer impedance	5 MHz	≤ 5 mΩ/m

HF cable according to DIN 47264, EN 50117-1 and IEC 61196

Transmission characteristics

at 20°C

Frequency (MHZ)	Attenuation (dB/100m)	Transmission performance (watts) (at 40°C ambient temperature, inner conductor temperature 100°C)	Return loss (dB) single peaks permissible	
	nominal	maximal		
5	1.6			
10	2.2	2040	Frequency (MHz)	
50	4.5			
100	6.3	620	10-450	≥ 26
144	7.6		450-1000	≥ 23
200	9.1		1000-2000	≥ 20

Technical data

Item number	Type	Wave imped- ance	Outer dia.	Weight	Transport weight	CU no.	Tens. force	Std. length	Coil size
			mm	kg/km	kg/km		N	m	*SPH
13383102AX	KK02	50Ω	7.3	83	87	56.7	505	1000	600/200/ 310

*SPH (plywood reel)

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