Aircell®5

Technical data

Centre conductor	solid copper wire, OFC
Centre conductor Ø	1 x 1,08 mm
Dielectric	PE, low-loss compound
Dielectric Ø	2,95 mm
Outer conductor 1	copperfoil, PE-coated
Shielding factor	100 %
Outer conductor 2	copper braid
Shielding factor	72 %
Sheath	black PVC, UV-resistant
Outer diameter Ø	5,0 mm
Weight	36 g/m
Min. bending radius	one single bending 25 mm
	15 repeated bendings 50 mm
Temperature range	storage -70 to +85°C
	installation -40 to +60°C
	operation -55 to +85°C
Pulling strength	12 daN

Typ. attenuation (dB/100 m @ 20°C)

5 MHz	2,07	1000 MHz	31,09
10 MHz	2,93	1296 MHz	35,71
50 MHz	6,61	1500 MHz	38,63
100 MHz	9,40	1800 MHz	42,63
144 MHz	11,33	2000 MHz	45,14
200 MHz	13,41	2400 MHz	49,87
300 MHz	16,53	3000 MHz	56,39
432 MHz	19,99	4000 MHz	66,19
500 MHz	21,57	5000 MHz	75,05
800 MHz	27,62	10000 MHz	112,00

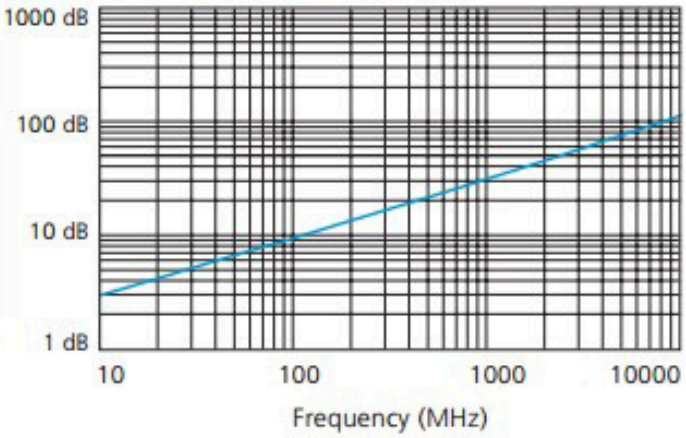
Max. power handling (W @ 40°C, VSWR 1.0)

10 MHz	1730	3000 MHz	90
100 MHz	540	4000 MHz	80
500 MHz	230	5000 MHz	70
1000 MHz	160	6000 MHz	60
2000 MHz	110	10000 MHz	50

Electrical specifications

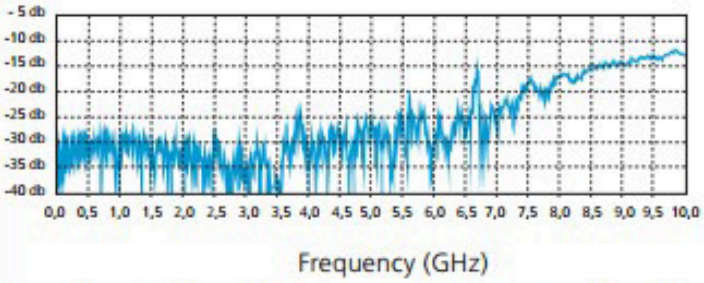
Impedance	50
Capacity	82 pF/m
Velocity factor	0,82
Screening efficiency @ 1 GHz	> 85 dB
DC-resistance: Centre conductor	20,5 /km
Outer conductor	13,6 /km
RF Peak Voltage	400 V
Cut-off Frequenz	33 GHz

Typ. Attenuation (dB/100 m) @ 20°C



	Aircell 5	RG 58/U	Ecoflex 10
Capacity	82 pF/m	102 pF/m	78 pF/m
Velocity factor	0,82	0,66	0,85
Attenuation [dB/100 m]			
10 MHz	2,93	5,0	1,2
100 MHz	9,40	17,0	4,0
500 MHz	21,57	39,0	9,6
1000 MHz	31,09	54,6	14,2
2400 MHz	49,87	98,0	23,6
5700 MHz	79,98	185,0	40,16

Typ. Return loss



Due to production tolerances the RTL may have different characteristics.

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