Aircell®7

NEVADA RADIO

Technical data

Centre conductor ...	stran. copper, oxy. free, 19 x 0,37 mm
Centre conductor Ø	1,85 mm
Dielectric	PE, low-loss compound
Dielectric Ø	5,0 mm
Outer conductor 1	copperfoil, PE-coated
Shielding factor	100 %
Outer conductor 2	copper braid
Shielding factor	70 %
Sheath	black PVC, UV-resistant
Outer diameter Ø	7,3 mm
Weight	72 g/m
Min. bending radius	one single bending ..... 25 mm
	15 repeated bendings..... 50 mm
Temperature range	-30 bis +80°C
Pulling strength	2 daN

Typ. attenuation (dB/100 m @ 20°C)

5 MHz	1,6	1000 MHz	21,52
10 MHz	2,2	1296 MHz	24,84
50 MHz	4,52	1500 MHz	27,08
100 MHz	6,28	1800 MHz	30,0
144 MHz	7,6	2000 MHz	31,88
200 MHz	9,04	2400 MHz	35,6
300 MHz	11,2	3000 MHz	40,88
432 MHz	13,6	4000 MHz	49,12
500 MHz	14,72	5000 MHz	57,04
800 MHz	19,0	6000 MHz	64,9

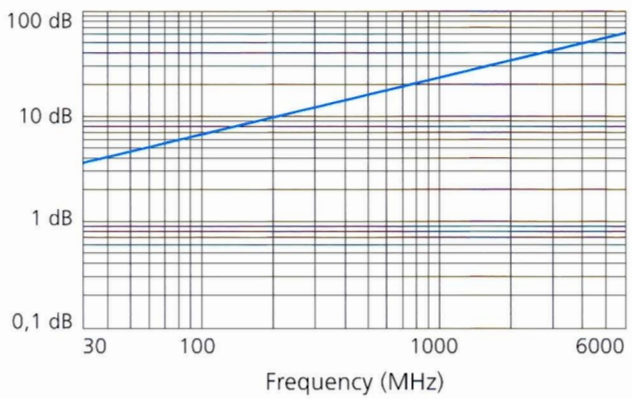
Max. power handling (W @ 40°C)

10 MHz	2040	1000 MHz	180
100 MHz	620	2000 MHz	120
500 MHz	260	3000 MHz	90

Electrical specifications

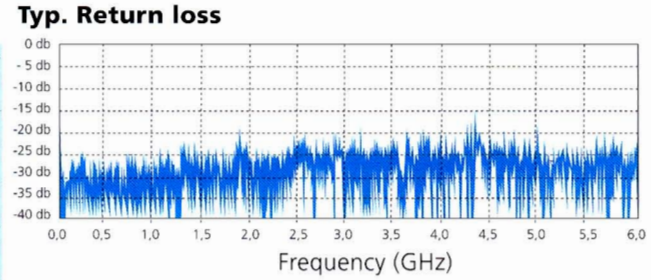
Impedance	50 Ω
Capacity	75 pF/m
Velocity factor	0,83
fmax	6 GHz
Screening efficiency @ 1 GHz	83 dB
DC-resistance	
Centre conductor	8,6 Ω/km
Outer conductor	8,5 Ω/km
RF peak voltage	0,7kV

Typ. Attenuation (dB/100 m) @ 20°C



	Aircell 7	RG 213/U	RG 58/U
Capacity	75 pF/m	101 pF/m	102 pF/m
Velocity factor	0,83	0,66	0,66
Attenuation (dB/100 m)			
10 MHz	2,2	2,0	5,0
100 MHz	6,28	7,0	17,0
500 MHz	14,72	17,0	39,0
1000 MHz	21,52	22,5	54,6
3000 MHz	40,88	58,5	118

Typ. Return loss



Due to production tolerances the RTL may have different characteristics.