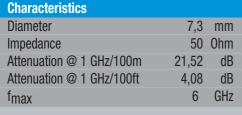
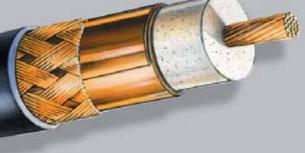
Low loss coaxial cable for radio communications



aircell°7



AIRCELL®7 is a super flexible coaxial cable designed for frequencies up to 6 GHz. At a diameter of just 7,3 mm ((0.287" OD) and a minimum bending radius of just 25 mm, it offers relatively low loss.

The low attenuation of AIRCELL®7 is achieved through advanced manufacturing techniques and the use of a PE-LLC dielectric with a foaming rate of more than 70%.

The extreme flexibility of AIRCELL®7 is further enhanced through the use of a multi-stranded oxygen-free center conductor. Further advantages of this cable include the use of double shielding which is constructed of overlapping copperfoil plus an additional tightly woven copperbraid. The copperfoil has an applied PE-coating which prevents foil cracking due to short radius bends and the black PVC-sheath of AIRCELL®7 is uv-stabilized.

A screening efficiency of > 85 dB@1GHz is realized.

AIRCELL®7 is the right choice, when a super flexible, microwave rated cable is required. Its economical price makes it the clear leader for today's demanding application.

AIRCELL®7 is available from stock in the following standard drum sizes:

25m, 50m, 100m, 200m and 500m

AIRCELL® 7 Connectors



Art.-Nr. 7392 N-plug, male



Art.-Nr. 7393 N-plug, female



Art.-Nr. 7391 BNC-plug, male



Art.-Nr. 7396 TNC-plug, male



Art.-Nr. 7390 UHF-plug, male standard



Art.-Nr. 7394 UHF-plug, male prof.

Technical data

Construction	
Centre conductor	stranded copper, oxygen 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, 70%
Sheath	black PVC, uv-resistant
Outer diameter Ø	7,3 mm

For your information							
	AIRCELL® 7	RG 213/U	RG 58/U				
Capacity pF/m	75	101	102				
Velocity factor	0,83	0,66	0,66				
attenuation dB/100 m	1						
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				

Mechanical specification	ons	
Weight (100 m)	7,2 kg	
Min. bending radius	25 mm	
Temperature range	- 30 + 80 °C	
Pulling strength	2 daN	

Electrical specifications		
Impedance	50 Ohm	
Capacity	75 pF/m	
Velocity factor	0,83	
fmax	6 GHz	
Screening efficiency @ 1 GHz	> 83 dB	
DC-resistance		
Centre conductor	3,1 0hm/km	
Outer conductor	6,4 0hm/km	
RF peak voltage	1 kV	

Attenuati	ion (dB/10	00 m) @	20°C		
100 dB					
10 dB					
1dB					
0,1 dB	30	100 F	requency (N	1000 1Hz)	6000

Max. power handling (W	@40°C)	
10 MHz	2040	
100 MHz	620	
500 MHz	260	
1000 MHz	180	
2000 MHz	120	
3000 MHz	90	

Return loss												
0 dB :												,
-10 dB												
-15 dB												
-20 dB												
-25 dB		riit.								*****		
-30 dB												
-35 dB												
-40 dB 🚐	0.5	10			-		0.5	40	4.5		7 11	
0,0	0,5	1,0	1,5	2,0	2,5	3,0	3,5	4,0	4,5	5,0	5,5	6,0
Frequency (GHz)												
Due to production tolerances the RTL may have different characteris						teris						

	(dB/100m@20°C)	dB/100ft @20°C
5 MHz	1,6	0,49
10 MHz	2,2	0,67
50 MHz	4,52	1,38
100 MHz	6,28	1,91
144 MHz	7,6	2,32
200 MHz	9,04	2,75
300 MHz	11,2	3,41
432 MHz	13,6	4,15
500 MHz	14,72	4,49
800 MHz	19,0	5,79
1000 MHz	21,52	6,56
1296 MHz	24,84	7,57
1500 MHz	27,08	8,26
1800 MHz	30,0	9,15
2000 MHz	31,88	9,72
2400 MHz	35,6	10,85
3000 MHz	40,88	12,46
4000 MHz	49,12	14,98
5000 MHz	57,04	17,39
6000 MHz	64,9	19,79

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