Low loss coaxial cable for radio communications

Characteristics		
Diameter	10,2	mm
Impedance	50	0hm
Attenuation @ 1 GHz/100m	14,2	dB
Attenuation @ 1 GHz/100ft	4,33	dB
fmax	6	GHz



ECOFLEX 10 is a flexible, low-loss coaxial cable specifically designed for use up to 6 GHz.

Advanced manufacturing techniques combined with the use of a low-loss PE-LLC Dielectric yields a foaming rate of more than 70%. This results in very low attenuation. **ECOFLEX 10** sets a new standard among flexible coaxial cables.

The flexibility of **ECOFLEX 10** is further enhanced through the use of a stranded, oxygen-free copper center conductor.

Use of proprietary techniques, continuous center conductor calibration and compression as well as the application of a precoating results in low losses and good impedance matching

Further advantages of the cable include the use of double shielding which is constructed of overlapping copperfoil plus an additional tight woven copper braid. A screening efficiency of > 90 dB@ 1 GHz is realized.

The copperfoil has an applied PE-coating which prevents foil cracking due to short radius bends.

The black PVC sheath of **ECOFLEX 10** is uv-stabilized.

In addition to a full compliment of standard connectors, an easy to use solder free N-connector has been specially developed for **ECOFLEX 10**. Connector installation only takes a few minutes and requires no special tools.

ECOFLEX 10 is the right choice when a low loss, highly flexible microwave rated cable is required. It's economical price makes it the clear leader for today's demanding applications.

ECOFLEX 10 is available from stock in the following standard drum sizes: 25m, 50m, 100m, 200m and 500m.

ECOFLEX® 10 Connectors



Art.-Nr. 7367 N-plug, male



Art.-Nr. 7383 N-plug, male, solderless



Art.-Nr. 7364 N-plug, female



Art.-Nr. 7379 BNC-plug, male



Art.-Nr. 7382 TNC-plug, male



Art.-Nr. 7384 TNC-RP-plug, male (reverse polarity)



Art.-Nr. 7378 UHF-plug, male

Technical data

Technical data	ECOFLEX'10
Construction	
Centre conductor	stranded copper, oxygen free 7 x 1,0 mm
Centre conductor Ø	2,85 mm
Dielectric	low loss compound PE
Dielectric Ø	7,25 mm
Outer conductor 1	copperfoil, PE coated
Shielding factor	100%
Outer conductor 2	copper braid, 72%
Sheath	black PVC, uv-resistant
Outer diameter Ø	10,2 mm

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Dielectric Ø	
Outer conductor 1	copperfoil, F
Shielding factor	
Outer conductor 2	copper b
Sheath	black PVC, uv
Outer diameter Ø	

Mechanical Specifican	Ulio
Weight (100 m)	13,1 kg
Min. bending radius	40 mm
Temperature range	- 40 + 85 °C
Pulling strength	5 daN

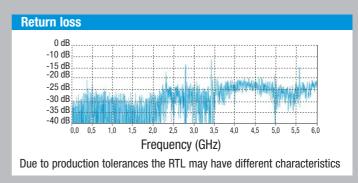
Electrical specifications		
Impedance	50 Ohm	
Capacity	78 pF/m	
Velocity factor	0,85	
fmax	6 GHz	
Screening efficiency @ 1 GHz	> 90 dB	
DC-resistance		
Centre conductor	3,3 0hm/km	
Outer conductor	8,4 0hm/km	
RF peak voltage	1 kV	

Max. power handling (N @40°C)	
10 MHz	3960	
100 MHz	1210	
500 MHz	510	
1000 MHz	350	
2000 MHz	230	
3000 MHz	180	
4000 MHz	150	
5000 MHz	130	
6000 MHz	120	

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Typ. attenuation	(dB/100m@20°C)	dB/100ft @20°C
5 MHz	0,8	0,24
10 MHz	1,2	0,37
50 MHz	2,8	0,85
100 MHz	4,0	1,22
144 MHz	4,9	1,49
200 MHz	5,8	1,77
300 MHz	7,3	2,23
432 MHz	8,9	2,71
500 MHz	9,6	2,93
800 MHz	12,5	3,81
1000 MHz	14,2	4,33
1296 MHz	16,5	5,03
1500 MHz	17,9	5,46
1800 MHz	19,9	6,07
2000 MHz	21,2	6,46
2400 MHz	23,6	7,20
3000 MHz	27,0	8,23
4000 MHz	32,2	9,82
5000 MHz	37,0	11,28
6000 MHz	41,5	12,65

For your information			
	ECOFLEX 10	RG 213/U	RG 58/U
Capacity pF/m	78	101	102
Velocity factor	0,85	0,66	0,66
attenuation dB/100 m			
10 MHz	1,2	2,0	5,0
100 MHz	4,0	7,0	17,0
500 MHz	9,6	17,0	39,0
1000 MHz	14,2	22,5	54,6
3000 MHz	27,0	58,5	118

Attenuat	on (dB/100	m) @ 20°C			
100 dB					
10 dB					
1dB					
0,1 dB	30 10	00 Frequer	ncy (MHz)	1000	6000





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