

Ecoflex 10 - low-loss & extremely flexible – www.sardif.com



Ecoflex® 10 Data

Diameter: 10,2 mm

Impedance: 50 Ohm

Loss@1GHz/100m: 14,2 dB

max. Frequency: 6 GHz

Ecoflex 10 is a flexible and thereby very low-loss 50 Ohm coaxial cable for the frequency range up to 6 GHz. Most modern production methods and the use of a low-loss PE-LLC dielectricum with a gas proportion of more than 70% allow very favourable loss values which are setting new standards for flexible coaxial cables of this dimension.

The high flexibility of Ecoflex 10 is secured by a 7-core stranded inner conductor made of low-oxygen copper. The inner conductor is compressed, calibrated and subsequently getting a precoating, to get good values for loss and matching.

A further plus is the double shielding: An overlapping copper foil and a overlying copper braid guarantee a high shielding value of > 90 dB at 1 GHz.

The black outer coating of Ecoflex 10 is UV-stabilized. For ease of installation, a high-quality solder-free N-connector was developed, which can be mounted without any special tools in just a few minutes.

Ecoflex 10 is a modern coaxial cable for all applications in the field of high frequency telecommunications: It is low-loss, flexible, stray radiation safe and suitable up into the microwave range.

Available in the standard lengths: 25 m, 50 m, 100 m, 200 m, 400 m and 500 m.

Specifications (Excerpt)	
Impedance	50 Ohm
Capacitance	78 pF/m
Cutting factor	0,85
Attenuation of shielding at 1 GHz	>90 dB
Inner conductor	Stranded CU wire, OFC, 7x1,0 mm
Dielectricum	PE low-loss compound
Outer diameter	10,2 mm
Bend radius	min. 40 mm
Weight (100 m)	13,1 kg

Attenuation (dB/100 m at 20° C)		Max. power (W at 40° C)	
100 MHz	4,0	10 MHz	3960
500 MHz	9,6	100 MHz	1210
1000 MHz	14,2	1000 MHz	350
2000 MHz	21,2		
2400 MHz	23,6		
3000 MHz	27,0		
4000 MHz	32,2		
5000 MHz	37,0		
6000 MHz	41,5		

For comparison	Ecoflex 10	RG 213/U	RG 58/U
Capacitance pF/m	81	101	102
Cutting factor	0,83	0,66	0,66
Attenuation dB/100 m			
10 MHz	1,2	2,0	5,0
100 MHz	3,8	7,0	17,0
500 MHz	9,0	17,0	39,0
1000 MHz	13,4	22,5	54,6
3000 MHz	25,9	58,5	118,0