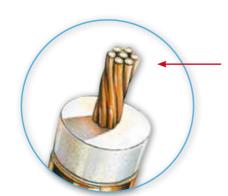




## **Ecoflex 10 Plus**



Stranded center conductor with aluminium core and weldet copper shield

## Ecoflex 10 Plus – ultraflexible and low loss coaxial cable

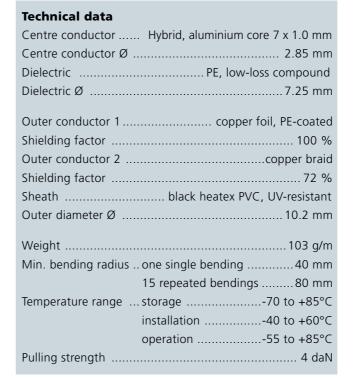
Ecoflex 10 Plus is a flexible, low-loss coaxial cable specifically designed for use up to 8 GHz. Advanced manufacturing techniques combined with the use of a low-loss PE-LLC dielectric yields a foaming rate of more than 70%. This results in very low attenuation. Ecoflex 10 Plus sets standards among flexible coaxial cables. The high flexibility of Ecoflex 10 Plus is guaranteed by a 7-wire Hybrid inner conductor with aluminium core and welded copper shield. 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 copper foil plus an additional tight woven copper

A screening efficiency of > 90 dB @ 1 GHz is realized. The copper foil has an applied PE coating, which prevents foil cracking due to short radius bends. The black PVC sheath of Ecoflex 10 Plus 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 Plus. The connector installation only takes a few minutes and doesn't require any special tools. Ecoflex 10 Plus is the right choice when a low loss, highly flexible microwave rated cable is required. Ecoflex 10 Plus is available from stock in the following standard drum sizes: 25 m, 50 m, 100 m, 200 m, 400 m, and 500 m.



Grounding clamp for Ecoflex 10 Plus, part. no. 6810

Ecoflex 10 Plus characteristics				
Diameter 10.2 mm				
Impedance 50 $\Omega$				
Attenuation @ 1 GHz/100m14.0 dB				
fmay 0 CHz				



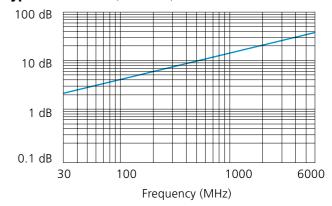
Electrical specifications	
Impedance	<u>)</u>
Capacity 78 pF/m	i
Velocity factor0,85	,
fmax	, -
Screening efficiency @ 1 GHz > 90 dB	
DC-resistance: Centre conductor 5.4 $\Omega$ /km	i
Outer conductor 8.4 Ω/km	i
RF peak voltage	,

Ecoflex	10 Plus RO	3 213/U	RG 58/U
Capacity78	3 pF/m10	01 pF/m	102 pF/m
Velocity factor	0.85	0.66	0.66
Attenuation (dB/100 m)			
10 MHz	1.3	2.0	5.0
100 MHz	4.1	7.0	17.0
500 MHz	9.6	17.0	39.0
1000 MHz	14.0	22.5	54.6
3000 MHz	26.0	58.5	118

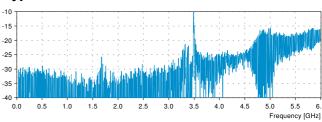
Typ. attenuation (dB/100 m @ 20°C)							
5 MHz	0.9	1000 MHz	z14.0				
10 MHz	1.3	1296 MHz	z16.2				
50 MHz	2.85	1500 MHz	z17.6				
100 MHz	4.1	1800 MHz	z19.5				
144 MHz	5.0	2000 MHz	z20.6				
200 MHz	5.9	2400 MHz	z22.9				
300 MHz	7.4	3000 MHz	z26.0				
432 MHz	8.9	4000 MHz	z30.7				
500 MHz	9.6	5000 MHz	z35.1				
800 MHz	12.4	6000 MHz	z39.1				
		8000 MHz	z46.6				

Max. power handl	ing	(W @ 40°C)	
10 MHz38	860	3000 MHz190	)
100 MHz11	90	4000 MHz160	)
500 MHz5	10	5000 MHz140	)
1000 MHz3	350	6000 MHz130	)
2000 MHz2	40	8000 MHz1??	?

## Typ. attenuation (dB/100 m) @ 20°C



## Typ. return loss



Due to production tolerances the return loss may have different characteristics.