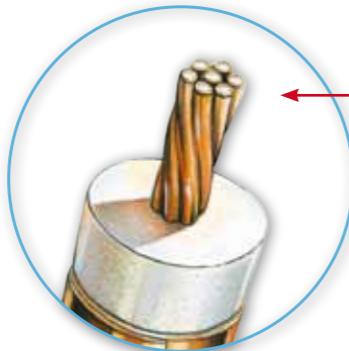


# Ecoflex 10 Plus



Stranded center conductor  
with aluminium core and  
welded 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 braid.

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.

Available standard lengths 25 m, 50 m, 100 m, 200 m, 500 m.



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

### Ecoflex 10 Plus characteristics

Diameter .....	10.2 mm
Impedance .....	50 Ω
Attenuation @ 1 GHz/100m .....	14.0 dB
fmax .....	8 GHz

### Technical data

Centre conductor .....	Hybrid, aluminium core 7 x 1.0 mm
Centre conductor Ø .....	2.85 mm
Dielectric .....	PE, low-loss compound
Dielectric Ø .....	7.25 mm
Outer conductor 1 .....	copper foil, PE coated
Shielding factor .....	100 %
Outer conductor 2 .....	copper braid
Shielding factor .....	72 %
Sheath .....	black PVC, UV-resistant
Outer diameter Ø .....	10.2 mm
Weight .....	103 g/m
Min. bending radius .....	one single bending 40 mm 15 repeated bendings 80 mm
Temperature range .....	storage -70 to +85°C installation -40 to +60°C operation -55 to +85°C
Pulling strength .....	4 daN

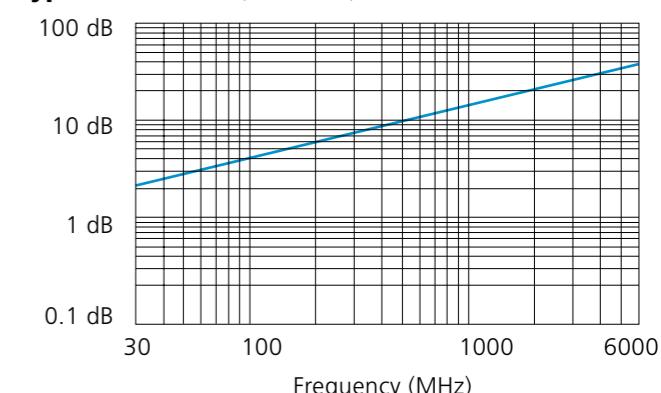
### Typ. attenuation (dB/100 m @ 20°C)

5 MHz .....	0.9	1000 MHz .....	14.0
10 MHz .....	1.3	1296 MHz .....	16.2
50 MHz .....	2.85	1500 MHz .....	17.6
100 MHz .....	4.1	1800 MHz .....	19.5
144 MHz .....	5.0	2000 MHz .....	20.6
200 MHz .....	5.9	2400 MHz .....	22.9
300 MHz .....	7.4	3000 MHz .....	26.0
432 MHz .....	8.9	4000 MHz .....	30.7
500 MHz .....	9.6	5000 MHz .....	35.1
800 MHz .....	12.4	6000 MHz .....	39.1
		8000 MHz .....	46.6

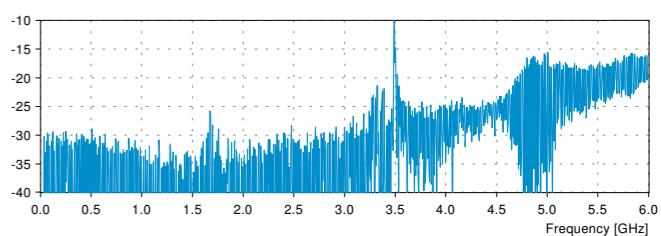
### Max. power handling (W @ 40°C)

10 MHz .....	3860	3000 MHz .....	190
100 MHz .....	1190	4000 MHz .....	160
500 MHz .....	510	5000 MHz .....	140
1000 MHz .....	350	6000 MHz .....	130
2000 MHz .....	240		

### Typ. attenuation (dB/100 m) @ 20°C



### Typ. return loss



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