

# Ecoflex®10

## Technical data

Centre conductor ...	stran. copper, oxygen free, 7 x 1,0 mm
Centre conductor Ø	2,85 mm
Dielectric	PE, low-loss Compound
Dielectric Ø	7,25 mm
Outer conductor 1	copperfoil, 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	131 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	5 daN

## Electrical specifications

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

### Ecoflex 10 RG 213/U RG 58/U

Capacity	78 pF/m	101 pF/m	102 pF/m
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

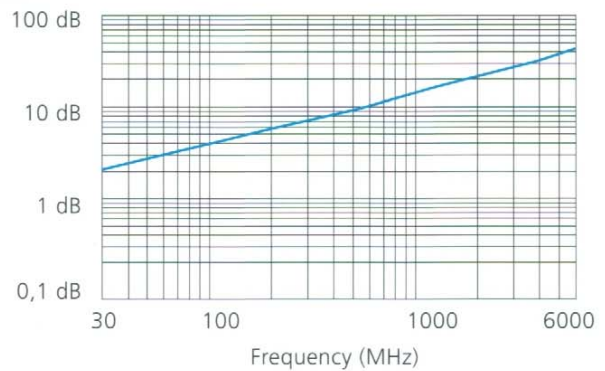
## Typ. attenuation (dB/100 m @ 20°C)

5 MHz	0,8	1000 MHz	14,2
10 MHz	1,2	1296 MHz	16,5
50 MHz	2,8	1500 MHz	17,9
100 MHz	4,0	1800 MHz	19,9
144 MHz	4,9	2000 MHz	21,2
200 MHz	5,8	2400 MHz	23,6
300 MHz	7,3	3000 MHz	27,0
432 MHz	8,9	4000 MHz	32,2
500 MHz	9,6	5000 MHz	37,0
800 MHz	12,5	6000 MHz	41,5

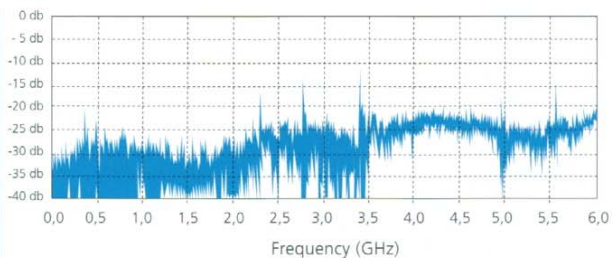
## Max. power handling (W @ 40°C)

10 MHz	3960	3000 MHz	180
100 MHz	1210	4000 MHz	150
500 MHz	510	5000 MHz	130
1000 MHz	350	6000 MHz	120
2000 MHz	230		

## Typ. Attenuation (dB/100 m) @ 20°C



## Typ. Return loss



Due to production tolerances the RTL may have different characteristics.