

**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

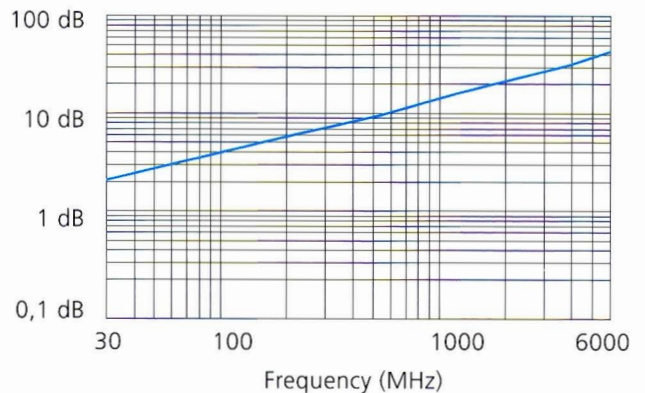
**Typ. attenuation (dB/100 m @ 20°C)**

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

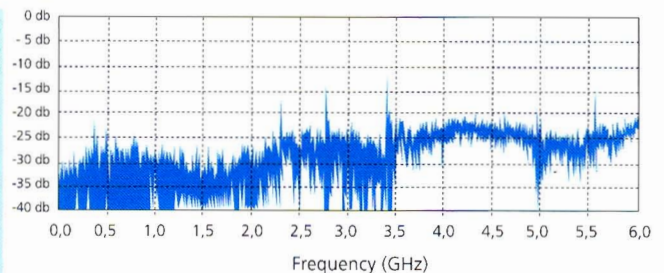
**Max. power handling (W @ 40°C)**

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.