

Ecoflex®15

Technical data

Centre conductor ...stran. copper, oxygen free, 7 x1,55 mm	
Centre conductor Ø	4,5 mm
Dielectric	PE, low-loss Compound
Dielectric Ø	11,3 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	14,6 mm
Weight	258 g/m
Min. bending radius .. one single bending	70 mm
15 repeated bendings	140 mm
Temperature range ... storage	-70 to +85°C
installation	-40 to +60°C
operation	-55 to +85°C
Pulling strength	12 daN

Electrical specifications

Impedance	50 Ω
Capacity	77 pF/m
Velocity factor	0,86
fmax	6 GHz
Screening efficiency @ 1 GHz	> 90 dB
DC-resistance: Centre conductor	1,56 Ω/km
Outer conductor	5,15 Ω/km
RF peak voltage	1,55 kV

Ecoflex 15 RG 213/U RG 58/U

Capacity	77 pF/m	101 pF/m	102 pF/m
Velocity factor	0,86	0,66	0,66
Attenuation (dB/100 m)			
10 MHz	0,86	2,0	5,0
100 MHz	2,81	7,0	17,0
500 MHz	6,7	17,0	39,0
1000 MHz	9,8	22,5	54,6
3000 MHz	18,7	58,5	118

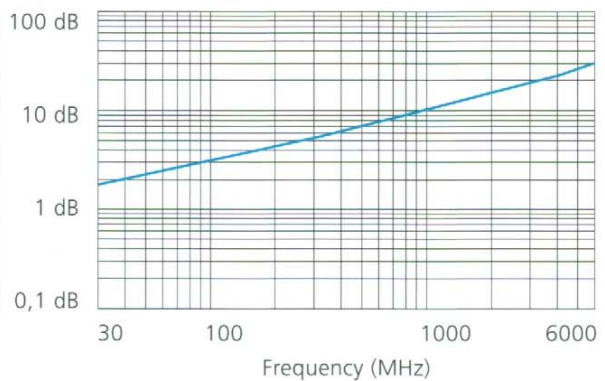
Typ. attenuation (dB/100 m @ 20°C)

5 MHz	0,6	1000 MHz	9,8
10 MHz	0,86	1296 MHz	11,4
50 MHz	1,96	1500 MHz	12,4
100 MHz	2,81	1800 MHz	13,8
144 MHz	3,4	2000 MHz	14,7
200 MHz	4,05	2400 MHz	16,3
300 MHz	5,0	3000 MHz	18,7
432 MHz	6,1	4000 MHz	22,3
500 MHz	6,7	5000 MHz	25,7
800 MHz	8,6	6000 MHz	28,8

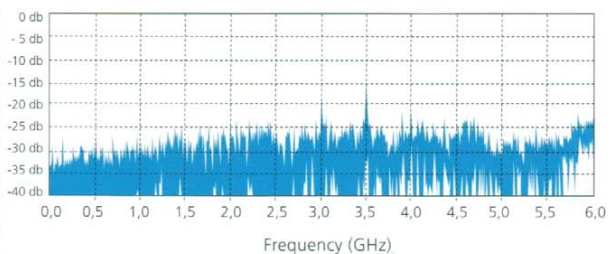
Max. power handling (W @ 40°C)

10 MHz	6450	2000 MHz	380
100 MHz	1970	3000 MHz	300
500 MHz	830	4000 MHz	250
1000 MHz	560	6000 MHz	190

Typ. Attenuation (dB/100 m) @ 20°C



Typ. Return loss



Due to production tolerances the RTL may have different characteristics.