Low loss coaxial cable for radio communications

Characteristics		
Diameter	14,6	mm
Impedance	50	0hm
Attenuation @ 1 GHz/100m	9,8	dB
Attenuation @ 1 GHz/100ft	2,99	dB
fmax	6	GHz

ECOFLEX®15

ECOFLEX 15 is a flexible low-loss coaxial cable for use in the frequency range of DC - 6 GHz.

Its unique construction combines the low loss properties found in non-flexible solid center conductor hardline cables with the high flexibility of cables manufactured with stranded center conductors.

Advanced manufacturing techniques combined with the use of a PE-LLC Dielectric yields a foaming rate of more than 70%, resulting in very low attenuation.

The use of continuous center conductor calibration and compression as well as the application of a precoating guarantees low losses and stable impedance matching.

An EMI screening immunity of > 90 dB at 1.0 GHz is achieved through the use of double shielding which consists of overlapping copper foil and an additional tight woven copperbraid. The copperfoil has an applied PE coating which prevents foil cracking due to short radius bends. The black PVC sheath of **ECOFLEX 15** is uv-stabilized.

ECOFLEX 15 is the 1st choice when a low loss, highly flexible microwave rated cable is required. It's economical price makes **ECOFLEX 15** the clear leader for today's demanding applications.

Solder-free, high quality connectors in "N" and "7-16" have been specially developed for **ECOFLEX 15**. Connector installation only takes a few minutes and requires no special tools.

ECOFLEX 15 is available from stock in the following standard drum sizes: 25m, 50m, 100m, 200m and 500m.

ECOFLEX® 15 Connectors



Art.-Nr. 7395 N-plug, male, solderless



Art.-Nr. 7397 N-plug, female, solderless



Art.-Nr. 7398 7/16 DIN-plug male, solderless

Technical data



Construction

Centre conductor	stranded copper, oxygen free
	7 x 1,55 mm
Centre conductor Ø	4,5 mm
Dielectric	low loss compound PE
Dielectric Ø	11,3 mm
Outer conductor 1	copperfoil, PE coated
Shielding factor	100%
Outer conductor 2	copper braid, 72%
Sheath	black PVC, uv-resistant
Outer diameter Ø	14,6 mm

Mechanical specifications

Weight (100 m)	25,8 kg	
Min. bending radius	70 mm	
Temperature range	- 40 + 85 °C	
Pulling strength	12 daN	

Electrical specifications

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

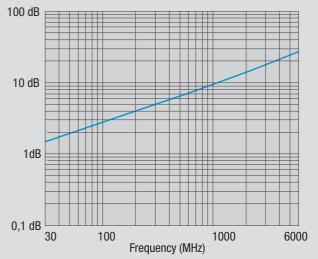
Max. power handling	(W @40°C)	
10 MHz	6450	
100 MHz	1970	
500 MHz	830	
1000 MHz	560	
2000 MHz	380	
3000 MHz	300	
4000 MHz	250	
6000 MHz	190	

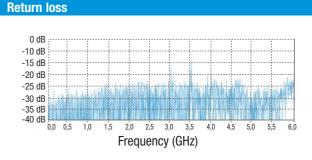
(dB/100m@20°C)	dB/100ft @20°C
0,6	0,18
0,86	0,26
1,96	0,60
2,81	0,86
3,4	1,04
4,05	1,23
5,0	1,52
6,1	1,86
6,7	2,04
8,6	2,62
9,8	2,99
11,4	3,48
12,4	3,78
13,8	4,21
14,7	4,48
16,3	4,97
18,7	5,70
22,3	6,80
25,7	7,84
28,8	8,78
	0,6 0,86 1,96 2,81 3,4 4,05 5,0 6,1 6,7 8,6 9,8 11,4 12,4 13,8 14,7 16,3 18,7 22,3 25,7

ECOFLEX is a registered trademark of SSB-Electronic GmbH.

For your informationation			
	ECOFLEX 15	RG 213/U	RG 58/U
Capacity pF/m	77	101	102
Velocity factor	0,86	0,66	0,66
attenuation dB/100 m	1		
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

Attenuation (dB/100 m) @ 20°C





Due to production tolerances the RTL may have different characteristics

Accessories Grounding clamp Art.-Nr. 6086

Handwerkerstraße 19 D-58638 Iserlohn/Germany Telefon (02371) 9590-0 Telefax (02371) 9590-20 info@ssb.de www.ssb.de

