

ECOFLEX 15



ECOFLEX® 15

LOW LOSS COAXIAL CABLE

ECOFLEX 15 is a new 50 Ohm coaxial cable for use in the frequency range of DC - 6 GHz. It's 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.

ECOFLEX 15 was designed to meet the demands of the RF and Telecommunications industries for a low loss, highly flexible, affordable coaxial cable.

An EMI screening immunity of

> 90 dB at 1.0 GHz is achieved through the use of double shielding, which consists of overlapped copper foil and an additional copper braid. The copper foil has an applied PE coating which insures that EMI immunity is not compromised by short radius bends.

ECOFLEX 15 is the right 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.

A solder-free, high quality N-connector has been specially developed for ECOFLEX 15. Connector installation takes only a few minutes and requires no special tools.

Shouldn't ECOFLEX 15 be your next choice in RF cabling?

Construction	
Inner conductor	stranded copper wire
	7x 1,55mm Ø 4.5 mm
Dielectric	LLC-PE Ø 11.3 mm
Outer conductor	Layer 1: overlapping Cu-foil, coverage 100%
	Layer 2: Cu-braid, coverage 72%
Sheath	PVC black Type 5 uv-stabilized
Outer diameter	14.6 mm

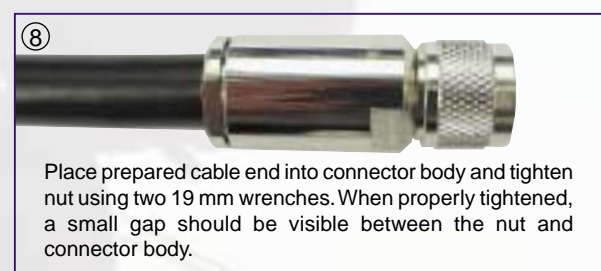
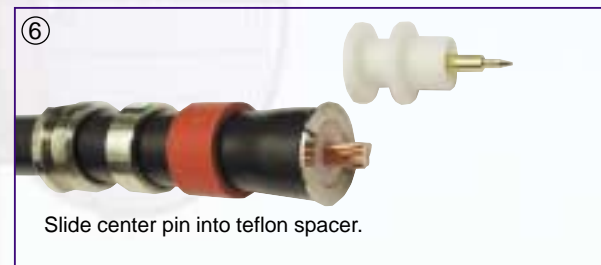
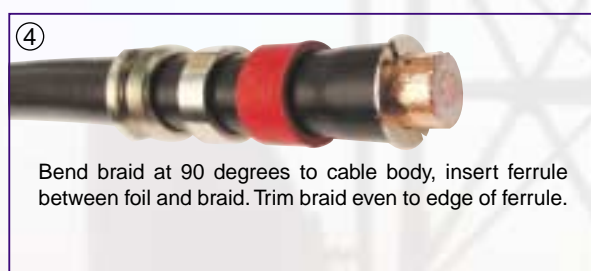
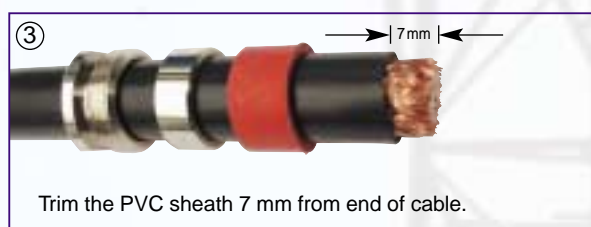
Mechanical data	
Weight 100 m	25.8 kg
Bending radius, min.	70 mm
Temperature-range	- 40+ 85° C
Tensile strength	12 daN

Electrical data	
Impedance	50 +/- 1 Ω
Capacity	77 pF/m
Velocity factor	0.86
Cut off frequency	10 GHz
Screening efficiency/ 1 GHz	> 90 dB
DC resistance	
Center conductor	1.56 Ω/km
Outer conductor	5.15 Ω/km
RF Peak voltage	1.55 KV

Max. power handling @ 40° C	
F (MHz)	10 100 500 1000
P (KW)	6.45 1.97 0.83 0.56
F (MHz)	2000 4000 5000 6000
P (KW)	0.38 0.25 0.22 0.19

Typ. attenuation in dB/100 m @ 20°C		
5 MHz	0.60 dB	
10 MHz	0.86 dB	
50 MHz	1.96 dB	
100 MHz	2.81 dB	
144 MHz	3.40 dB	
200 MHz	4.05 dB	
300 MHz	5.0 dB	
400 MHz	5.9 dB	
432 MHz	6.1 dB	
500 MHz	6.7 dB	
800 MHz	8.6 dB	
1000 MHz	9.8 dB	
1296 MHz	11.4 dB	
1500 MHz	12.4 dB	
1800 MHz	13.8 dB	
2000 MHz	14.7 dB	
2320 MHz	16.0 dB	
2400 MHz	16.3 dB	
3000 MHz	18.7 dB	
4000 MHz	22.3 dB	
5000 MHz	25.7 dB	
6000 MHz	28.8 dB	
Amateur Bands		

Connector assembly



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