

ET-X142C-01

RG142 Coaxial Cable



Product overview

RG142 coaxial cable meets the standard: M17 / 60-rg142, maximum working frequency: dc-6ghz, rg142 high-temperature coaxial cable is used for interconnection between telecommunication equipment and is widely used in commercial wireless applications. The specific applications of rg142 include radar, GPS and medical system. Rg142 can be directly buried and can maintain good shielding effect when complex underground connection is realized

Construction

Conductor	Material	SCCS
	Diameter	0.95 mm ± 0.02 mm
	Wire Gauge	19 AWG
Insulation	Material	PTFE
	Diameter	2.95 mm ± 0.2 mm
AL Foil	Construction	With Foil
	Material	APG (Customized optional: GAPG/BAPG)
	Width	12 mm
	thickness	> 0.024 mm
	Overlap Rate	≥ 20%
Braid	Material	SPC
	Braid Coverage	60% - 98%
Jacket	Material	FEP
	Diameter	4.95 mm ± 0.3 mm

Packing

Package length	100m / 300m / 500m
	Customized
Box type	Ordinary / Waterproof
	Customized optional

Test Data

Capacitance	95 pF/m. max
Maximum voltage	5000 Volts
Velocity of propagation	69 %
Operating Frequency	8 GHz
Screening effectiveness	≥ 85 dB (up to 6 GHz)
Insulation resistance	≥ 1 x 10 ⁸ MΩm
Max. operating voltage	≤ 2.5 kVrms (at sea level)
Characteristic Resistance	50Ω ± 2Ω
Elongation at Break (Wire)	≥15%
Elongation at Break (Sheath)	≥150%
Low Temperature Bending	Not cracked
Thermal Shock	Not cracked
Operating Temperature	- 20°C to +60°C (-4°F to 140°F)
Storage Temperature	- 10°C to +40°C (14°F to 104°F)

Technical Test [Attenuation @68°F(20°C)]

Frequency(MHZ)	Maximum(dB/100ft)	Maximum(dB/100m)
10	1.2	3.9
30	2.1	6.9
50	2.7	8.6
100	4	13
400	8	26
1000	13	43
1500	16	52
2000	19	62
2500	21	68
3000	24	78
5000	32	104