

ET-X214C-01

RG214 Coaxial Cable



Product overview

The military specification equivalent value of rg214 coaxial cable is M17 / 75-rg214. This coaxial cable is used in telecommunications, data transmission, RF communication, broadcasting and computer applications. The rg214 can also be used for microwave transmission in local area network, instrument and coaxial control cable. It is used to connect wireless and data communication systems that require high signal sequence and low attenuation, as well as test leads and high-quality installation that require low PIM and crosstalk.

Construction

Conductor	Material	SC
	Diameter	7 × (0.752 mm ± 0.02 mm)
	Wire Gauge	13 AWG
Insulation	Material	SPE
	Diameter	7.25 mm ± 0.1 mm
Braid	Material	TC (Customized optional: AL)
	Braid Coverage	85 %
Braid	Material	TC (Customized optional: AL)
	Braid Coverage	97 %
Jacket	Material	PVC (Customized optional: PE/PVC+PE/LSZH)
	Diameter	10.5 mm ± 0.3 mm

Packing

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

Test Data

Operating Frequency	1 GHz
Velocity of propagation	66 %
Screening effectiveness	≥ 40 dB (up to 1 GHz)
Max. operating voltage	≤ 0.85 kVrms (at sea level)
Capacitance	101 pF/m. max
Insulation resistance	≥ 1 × 10 ⁸ MΩm
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)
100	1.89	6.2
200	8.9	8.9
400	4.08	13.4
700	6.52	21.4
900	7.62	25.0