

ET-X174C-01

RG174 Coaxial Cable



Product overview

RG174 coaxial cable meets the standard: M17 / 119-rg174, and the maximum working frequency is dc-1ghz. RG174 / u is used to provide high-speed and high-precision data transmission. Common applications include security system, computer network, access control and home automation applications. Rg-174 coaxial cable is often used to connect wireless equipment and antenna in wireless network, and is also often used in automobile harness

Construction

Conductor	Material	TC (Customized optional: CCS)
	Diameter	7 × (0.16 mm ± 0.02 mm)
	Wire Gauge	24.5 AWG
Insulation	Material	SPE
	Diameter	1.55 mm ± 0.1 mm
AL Foil	Construction	With Foil
	Material	AP (Customized optional: APA/BAP)
	Width	6 mm
	thickness	> 0.024 mm
	Overlap Rate	≥ 18%
Braid	Material	TC (Customized optional: AL)
	Braid Coverage	60% - 98%
Jacket	Material	PVC (Customized optional: PE/PVC+PE/LSZH)
	Diameter	2.8 mm ± 0.3 mm

Packing

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

	Customized optional
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Test Data

Operating Frequency	6 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)
5	2	5
10	2	7
30	4	12
50	5	16
150	9	28
220	10	34
450	15	50
900	22	72
1500	29	94
1800	32	104
2000	34	110
2500	38	124
3000	42	139
3500	45	149
4500	52	172
5800	61	200
6000	62	203