

Product Specification

OBJECT		Coaxial Cable			
GRADE		QR540JCA			
Construction					
Inner conductor	Material	Copper Clad Aluminium			
	Diameter, mm	3.15±0.02			
Insulation	Material	Foam PE covered by dielectric adhesive			
	Diameter, mm	13.03±0.03			
Outer Conductor	Material	Aluminium tape welded tube			
	Thickness, mm	0.34±0.02			
	Diameter, mm	13.71±0.05			
Jacket	Material	LSZH black			
	Thickness, mm	0.89±0.05			
	Diameter, mm	15.49±0.2			
Messenger	Material	/			
	Diameter, mm	/			
Mechanical Properties					
Minimum Breaking Strength of Messenger, KgF		816		350 MHz	4.04 dB ↓
Pulling Strength, N		1000		400 MHz	4.33 dB ↓
Min Bending Radius, mm		102		450 MHz	4.59 dB ↓
Electrical Properties					
Impedance, Ω		75±2		500 MHz	4.89 dB ↓
Capacitance, nF/km		50±3		550 MHz	5.12 dB ↓
propagation Velocity, %		88		600 MHz	5.38 dB ↓
Nominal DC loop resistance, Ohm/km		≤5.54		750 MHz	6.07 dB ↓
Insulation Resistance, MΩ.km		>10000		865 MHz	6.56 dB ↓
Attenuation at 20 celsius					
				Frequency, MHz	Max, dB/100meter
				5 MHz	0.46 dB ↓
				211 MHz	3.12 dB ↓
				250 MHz	3.38 dB ↓
				300 MHz	3.71 dB ↓
				350 MHz	4.04 dB ↓
				400 MHz	4.33 dB ↓
				450 MHz	4.59 dB ↓
				500 MHz	4.89 dB ↓
				550 MHz	5.12 dB ↓
				600 MHz	5.38 dB ↓
				750 MHz	6.07 dB ↓
				865 MHz	6.56 dB ↓
				1218 MHz	8.00 dB ↓
				Return Loss, dB	
				5-1000 MHz	≥26



Figure: QR540JCA coaxial cable