

# **SPECIFICATION**

RF1.13 Cable

Specifications:

7/0.08SC

## **1. Product description**

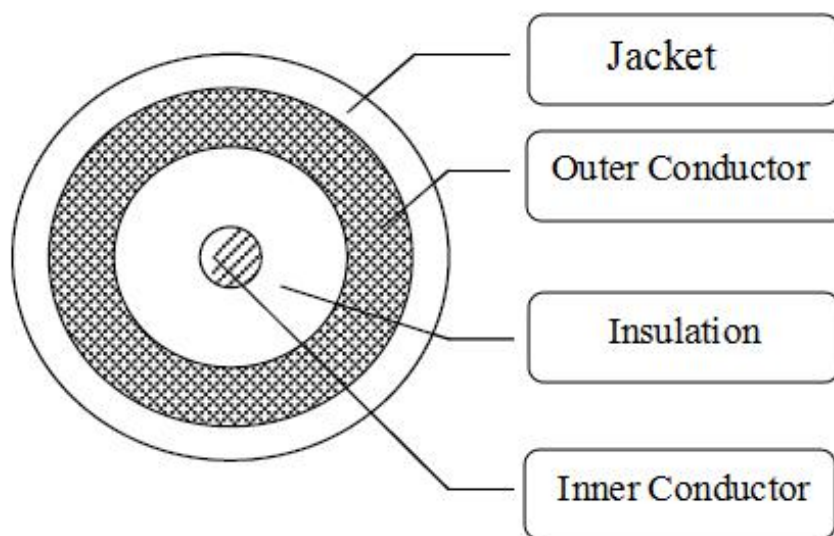
1.1 This Product is soft Teflon insulation series coaxial cable .Is suitable for the microcave equipment ,wireless commication systems and equipment .

1.2 Products f eatures:Excellent,Flexi-ability,good V.S.W.R,good shielding performance.

## **2.Product description**

Cable with data and structure diagram:

### **2.1 Structure diagram**



## 2.2 Specification of the cable

Item		No	Materials and Size
Inner Conductor	Material	/	Sliver Plated Copper Wire
	Composition	mm	7/0.08±0.002
	OD	mm	φ0.24
Insulation	Material	/	Teflon FEP (200degrees of fluorinated ethylene propylene resin)
	Thickness	mm	0.21
	OD	mm	Φ0.68±0.03
	Color	/	Transparent Color
Outer Conductor	Material	/	Tinned Copper Wire
	Form	/	Weave
	Density	%	93% (26 mesh;80Coding 4*16/0.05mm)
	OD	mm	Φ0.88±0.05
Jacket	Material	/	Teflon FEP (200degrees of fluorinated ethylene propylene resin)
	Thickness	mm	0.125
	OD	mm	Φ1.13±0.05
	Color of sheath	/	Gray or Black

## 3.1 The Cable Characteristic

### 3.1 Electrical Characteristic

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Test Project	Standard Value		Note
Rated Temperature /Voltage	-55°C~+200°C/ 30V		/
Insulation Resistance	3000MΩ.Km		Resistance Tester
Conductor Resistance	482Ω/Km 20°C		/
Pressure	2KV		Withstand Voltage Test
Insulation	Unaged	Tensile Strength	2500 PST MIN.(1.76Kg/mm <sup>2</sup> )
		Elongation	200% MIN
	Aged	Tensile Strength	2500 PST*75% (168HRS*232°C )
		Elongation	200% MIN*75% ( 168HRS*232°C )
Jacket	Unaged	Tensile Strength	2500 PST MIN.(1.76Kg/mm <sup>2</sup> )
		Elongation	200% MIN
	Aged	Tensile Strength	2500 PST*75% (168HRS*232°C )
		Elongation	200% MIN*75% ( 168HRS*232°C )
Characteristic Impedance	50±2Ω		Analysis of network analyzer The TRK tester
Capacitance	96 ± 3 PF/M		Digital Capacitance meter
Velocity	69%		Analysis of network analyzer
Propagation Delay	4.8ns/m		/
Shielding Attenuation	100dB		/
Bending Radius	<7mm		/
Flame Retardant	Passed		VM-1 Provides Materials Report
Attenuation (dB/m)	Test Frequency	Attenuation	Sea Level to 20DEG C Test
	0.1Ghz	0.42	
	0.4Ghz	0.58	
	1Ghz	2.2	
	2Ghz	3.4	
	3Ghz	4.2	
	4Ghz	4.5	
	5Ghz	5.2	
	6Ghz	5.6	
VSWR	0.3-3Ghz	≤1.3	
	3-6Ghz	≤1.35	

## 4. Packaging requirements

4.1 Package Length : 1000meters

The way of packing :Volume

The Stub Length:  $\geq 30$ meters

The Proportion of short-Term: 15%

4.2 Packaging and labeling :Standard or according to customer requirements .

## 5. Material Composition:

5.1:Name of commodity and specifications :Coaxial cable RG1.13/P-TC

5.2:The weight of materials:3240(mg/m)

Position	Site quality	Material Name	Material Composition	CAS NO	The amount of (mg)	Containing Rate
Conductor	350	Silver Plated copper wire	Cu	7740-50-8	344.75	10.64
			Ag	7740-22-4	5.25	0.162
Insulation	742	Reflon FEP	FEP	26655-00-5	742	22.901
Shield	1322	Tinned Copper Wire	Cu	7740-50-8	1282.34	39.578
			Sn	7740-31-5	39.66	1.224
Jacket	826	Teflon FEP	FEP	26655-00-5	770	23.765
			Color Masterbatch	/	56	1.728

Our products are the implementation of UL-1979 Standard, does not provide UL Certification standards ,Can provide SGS ,MSDM report .

This specification is only for conventional wire ,If the customer needed to wire for special specification .Please refer to our wire admitted that book .