



Building A Gushu Wanlihua Industrial Park, ,
Xixiang, Bao'an District.
Shenzhen
Tel No.: 0755- 2399 2467
Fax No.: 0755- 2399 2467

Specification for Approval

Customer	
Product Name	RF 064 Normal Spec.
Spec. No	SPH-3-RF064
Your P/N	
Our P/N	MC- RF064
Issue Date	Oct. 30, 2020

1. stands for the jacket color identification.

Customer Approval:

Prepared by	Checked by	Approved by

Document preparation: Xundian (Shenzhen) Communication Technology Co., Ltd

Prepared by	Checked by	Approved by
Isabella	Michael	Michael

Document List:

Content	Page No.
Part 1: Technical information	3
Part 2: Element Table for Material and MSDS	4~5
Part 3: Electronic& Physical performance data	6
Part 4: Test Report data	7

1. Scope:

This specification covers UL R/C FEP insulated 50Ω micro-coaxial cable for internal wiring of Class 2 Circuits of Electronic Equipment.

UL Style 1354, 80°C/30V

2. Construction: 線材構造

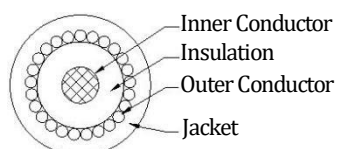
Item項目	Unit	Spec. Value 規格值
Inner Conductor 內部導體	Material 材質	--- Silver plated annealed copper wire 鍍銀銅線
	Construction 結構	No./mm 7/0.05(±0.003)
	Stranding Lay 絞向	-- S-Lay S 向
	Pitch 絞距	mm ≤3.0
	Dia.(approx)外徑	mm 0.15±0.09
Insulation 絕緣	Material 材質	--- FEP
	Nom. Thickness 厚度	mm 0.15
	Dia.(approx)外徑	mm 0.45±0.02
	Color 顏色	--- White 白色
Outer Conductor 外被導體	Type 類型	--- Wrapping 橫卷隔離
	Lay 隔離方向	- S-Lay S 向
	Material 材質	--- Tinned plated annealed copper wire 鍍錫銅線
	Construction 構造	No./mm 30±1/0.05
	Coverage 覆蓋率	% 85%Min
	Dia.(approx)外徑	mm 0.55
Jacket 護套	Material 材質	--- PFA
	Nom. Thickness 厚度	mm 0.045
	Color 顏色	--- Upon your request (Black. White. Blue. etc.) 按要求 (黑色, 白色, 藍色等))
	Dia.(approx)外徑	mm 0.64 ±0.03

3. Characteristics: 特性

Test Item 測試項目	Unit	Specified Value 規格值	
Inner conductor resistance (at 20°C) 導體電阻	Ω /km	Max.1,400	
Insulation resistance (at 20°C) 絕緣電阻	MΩ -km	Min.1,000	
Dielectric strength between inner and outer conductor 耐電壓	-	AC 500V for 1min	
Characteristic impedance (at TDR) 特征阻抗	Ω	49~52	
Nominal attenuation 標稱衰減	1.0GHz	dB/m	3.1
	2.0GHz		4.7
	3.0GHz		5.8
	4.0GHz		6.9
	5.0GHz		8.2
	6.0GHz		9.4

4. Packing : 包裝

In paper bobbin, unit length: 500m/roll or 1000m/roll with max. 3 or 4 splices; the Min. length with no splices: 30m.
紙軸包裝, 每軸 500 米或 1000 米, 每軸最多三段 (500 米時) 或四段 (1000 米時), 每段最短 30 米。



Cross-section of cable

Part 2: Element Table for Material and MSDS

資料No.: _____

Rev.Ver.: 1.2

成分表

材料名稱: RF064细同轴线 材料單重: 1147.8mg

材料規格: _____ 材料單位: (m) _____ 原産国: China

材料構成

使用部位	部位質量 (mg)	材料名	材料的構成物質	CAS No.	含有量 (mg)	含有率(%)	備考
导体	124.6	镀银铜线	Cu	7440-50-8	122.108	10.640%	
			Ag	7440-22-4	2.492	0.217%	
绝缘体	314.1	FEP	FEP	25067-11-2	314.1	27.365%	
			隔离	501	镀锡铜线	Cu	7440-50-8
外被	208.1	PFA	Sn	7440-31-5	15.03	1.309%	
			PFA	26655-00-5	192.1	16.736%	
			色母	/	16	1.394%	
合計	1147.800 mg				1147.800 mg	100.000%	

作成日: 30/Oct/22
 公司名: Xundian
 TEL: 0755-2399 2467
 FAX: 0755-2399 2467
 負責人名: Cindy

Material Safety Data Sheet

Xundian
Date: Oct, 30, 2020

1. Product and Company identification:

Product name: RF064 细同轴线

Company name: Xundian (Shenzhen) Communication Technology Co., Ltd

Address: Xixiang, Bao'an District, Shenzhen city, China

Fax No.: 86-755-2399 2467

Tel No.: 86-755-2399 2467

2. Composition/Information on ingredient:

Single substance or mixture: Mixture

Inner conductor: Silver plated copper

Insulation: FEP

Outer conductor: Tinned plated copper

Jacket: PFA

3. Hazard identification:

- Do not discharge into the environment;

- When this product is heated for a long time or at higher temperature, it generates particulate matter or hazardous fume gas.

4. First-aid measures:

- Inhalation:

In case of headache and nausea, remove the victim from contamination immediately to fresh air, keep quiet and seek medical advice.

- Skin contact:

No hazards.

- Eyes contact:

No hazards.

- Ingestion:

Rinse mouth. Get medical attention.

5. Fire fighting measures:

- General Information:

In case of fire in surrounding area, shut off the source of origin of fire. Wear full protective equipments, fire-fighting clothes, with full-masked air respirator for fire-fighting operation.

- Extinguishing Media:

Use any type of extinguisher, like foam, dry powder, carbon dioxide and dry sand.

6. Accidental release measures:

Collect wasted wire and bury it. Do not burn with incinerator.

7. Handling and storage:

- Handling:

"No smoking" practice should be maintained in a work place and after handling materials, wash face and hands thoroughly. Cigarettes are not carried into a work place so that materials may not adhere to there.

- Storage:

Store in a cool, dry area, away from direct heat or sunlight.

Part 3: Electronic performance data

1. Impedance test: (Test by Vendor)
Meter: TDR (Time domain reflector)
DUT (device under test): SMA connector + 1M length cable
QTY: 1 PC

Test procedure:

Calibrate meter.

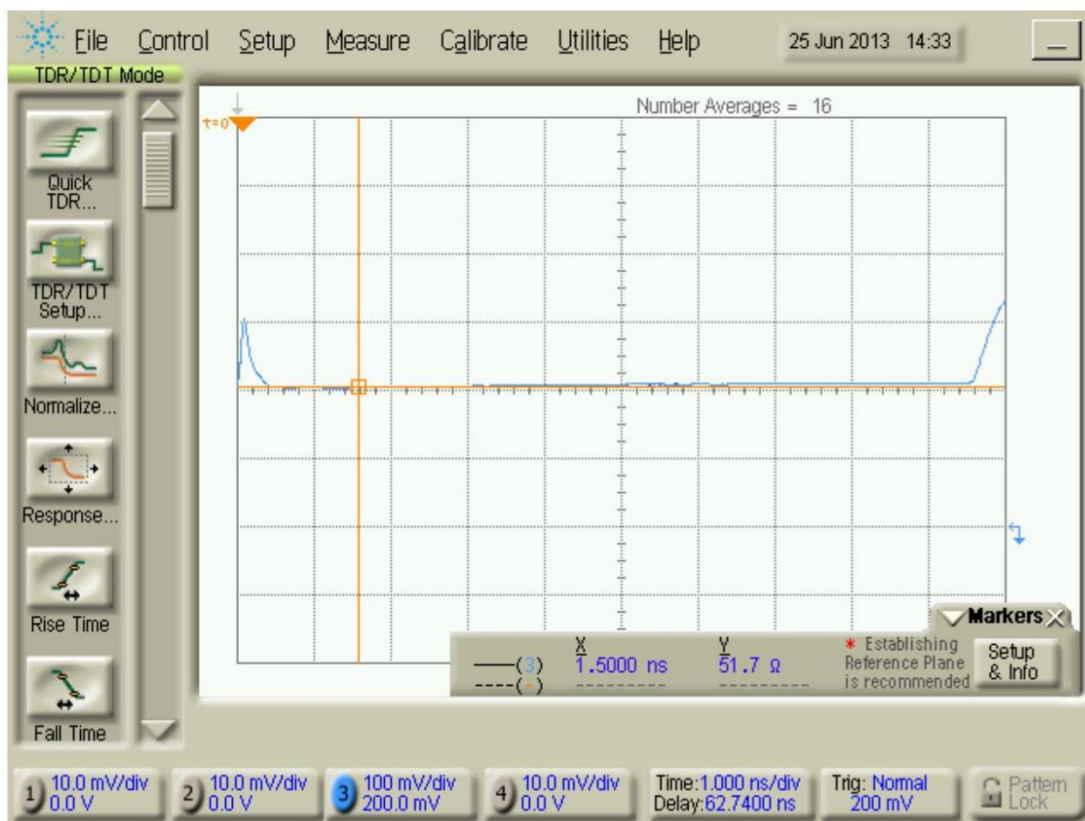
Connect DUT and Meter.

Measure cable, we can find a sine wave on the screen of meter.

Set mark points at 1.5ns of the wave.

Read the mark point and record it!

Test data photograph:



Part 4: Test Report data

Test Report

Part Name: RF064 细同轴线

Ref. Spec.:

Lot No.: MC-RF064

1. Construction:

No.	Item	Spec.	Result	Judgment
1	Inner conductor material	Silver plated annealed copper	Silver plated annealed copper	Pass
2	Inner conductor size	7/0.05 mm	7/0.051, 7/0.051, 7/0.050	Pass
3	FEP insulation thickness	Nom. 0.15 mm	0.150, 0.151, 0.155	Pass
4	Insulation diameter	0.45±0.01 mm	0.456, 0.458, 0.461	Pass
5	Outer Conductor (Spiral shield)	Tinned coated copper	Tinned coated copper	Pass
6	Outer Conductor construction	28±2/0.05mm	29/0.05, 29/0.05, 29/0.05	Pass
7	PFA Jacket thickness	Mon. 0.045 mm	0.049, 0.046, 0.050	Pass
8	Overall diameter	0.64±0.03 mm	0.638, 0.641, 0.652	Pass

2. Performance:

No.	Item	Spec.	Result	Judgment
1	Appearance	Faultless in visible	OK	Pass
2	Inner conductor resistance	Max. 1400 Ω	1229	Pass
3	Dielectric withstanding between outer conductor and jacket	AC 500V/1 min., no breakdown	OK	Pass
4	Insulation resistance	Min. 1000 MΩ.km	>1200	Pass
5	Characteristic Impedance	49~52Ω by TDR	51.7	Pass
6	Insulation strength	> 50gf / 50mm	120 140, 120	Pass
8	Jacket strength	>30gf / 10mm	40 40, 40	Pass

Prepared: Zou feng

Approved: Michael Oct.30, 2020