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Shenzhen

Tel No.: 0755- 2399 2476

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Specification for Approval

Customer	
Product Name	RF 1.32 Coaxial Cable Spec.
Spec. No	SPH-3-RF1.32
Your P/N	
Our P/N	MC-RF1.32
Issue Date	Oct. 11, 2020

* stands for the jacket color identification.

Customer Approval:

Prepared by	Checked by	Approved by

Document preparation: Shin Din Cable, Ltd.

Prepared by	Checked by	Approved by
Isabella	Michael	Michael

Document List:

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Part 1: Technical information

1. Scope:

This specification covers FEP insulated High-Frequency coaxial cable for internal wiring of electronic equipment.

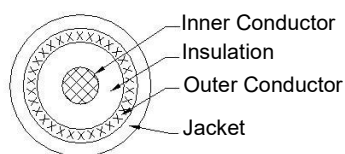
USE: Internal wiring of Class 2 Circuits of Electronic Equipment.

2. Construction:

	Item	Unit	Spec. Value
Inner Conductor	Material	---	Silver plated copper
	Construction	No./mm	7/0.08
	Dia.(approx)	mm	0.24
Insulation	Material	---	FEP
	Nom. Thickness	mm	0.22
	Dia.(approx)	mm	0.68±0.05
	Color	---	Natural
Braiding 1	Type	---	Braiding
	Material	---	Tinned copper
	Construction	No./ No./mm	16/4/0.05
	Coverage	%	>90
	Dia.(approx)	mm	0.93
Braiding 2	Type	---	Braiding
	Material	---	Tinned copper
	Construction	No./ No./mm	16/5/0.05
	Coverage	%	>90
	Dia.(approx)	mm	1.16
Jacket	Material	---	FEP
	Nom. Thickness	mm	0.08
	Color	---	Upon request
	Dia.(approx)	mm	1.32±0.10

3. Characteristics:

Test Item	Unit	Specified Value	Note
Appearance	-	Faultless in visible	-
Inner conductor resistance(at 20 °C)	Ω/km	Max.597	At 20°C
Insulation resistance 1> (at 20°C)	M Ω -km	Min.1500	At 20°C
Dielectric strength	-	Dielectric core: No breakdown at AC1.5KV for 0.15sec.	Spark test
	-	Jacket: No breakdown at AC 1.5KV for 0.15sec.	Spark test
	-	Between Inner and outer conductor: No breakdown at AC 500V for 1min	Completed cable
Flame retardant	-	VW-1	UL 1581
Capacitance (Nom.)	pF/m	98	At 1KHz
Characteristic impedance (at D-TDR)	Ω	50±3	TDR method
Attenuation (Max.)	dB/m	2.0	1GHz
		2.9	2GHz
		3.7	3GHz
		4.3	4GHz
		4.8	5GHz
		5.3	6GHz



Cross-section of cable

4. Packing:

In paper bobbin.

Part 2: Element Table for Material and MSDS

成分表

材料名稱: RF1.32 細同軸線 材料單重: _50804_(mg)

材料規格: SPH-3-RF1.32 材料單位: (m)

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.	(mg)	含有率	備考
導體	350	鍍銀銅線	Cu	7440-50-8	344.75	6.786%	
			Ag	7440-22-4	5.25	0.103%	
絕緣體	742.6	FEP	FEP	26655-00-5	742.6	14.617%	
編織	3138.8	鍍錫銅線	Cu	7440-50-8	3044.636	59.929%	
			Sn	7440-31-5	94.164	1.853%	
外皮	849	FEP	FEP	26655-00-5	788	15.511%	
			色母	/	61	1.201%	
合計	5080.400 mg				##### mg	100.000%	

作成日: 2020年10月11日
 公司名: Xundian
 TEL: 0755-2399 2476
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 制作人名: 劉紅英

Material Safety Data Sheet

Xundian

Date: Oct.11, 2020

1. Product and Company identification:

Product name: RF-1.32 coaxial wire

Company name: Shin Din Cable, Ltd.

Address: Pak Mong, Xili, Nanshan, Shenzhen city, China

Fax No.: 86-755-2765 3459

Tel No.: 86-755-2765 3333

2. Composition/Information on ingredient:

Single substance or mixture: Mixture

Inner conductor: Silver plated copper

Insulation: FEP

Outer conductor: Tinned copper wire

Jacket: FEP

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:

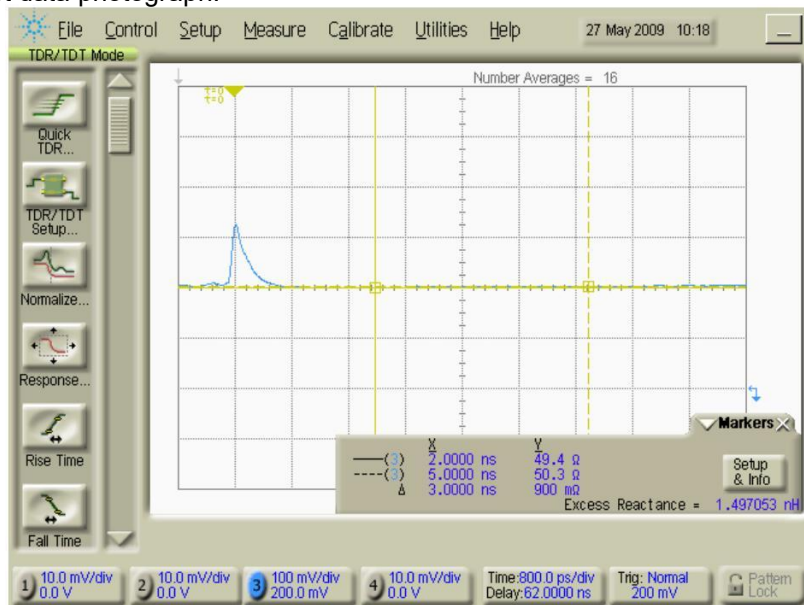
Store in a cool, dry area, away from direct heat or sunlight.

Part 3: Electronic performance data

- Impedance test:
 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 2ns and 5ns of the wave.
 Read the mark point and record it!

Test data photograph:



- S11 and S21 parameters test
 Meter: NA (Network analyzer); 2 port and up to 8.5GHz
 DUT: I-Pex connector+ 1 M length cable +I-Pex connector.
 QTY: 1PC

Test procedure:
 Calibrate NA for "full 2 port". At least, need a test cable connect to NA.
 Connect DUT and NA.
 Measure cable, and spared screen, one for S11 the other is S21.
 Set mark points for 1GHz 2GHz 3GHz 4GHz 5GHz 6GHz 7GHz 8GHz.
 Save trace data for S11 and S21.

Test connecting and data photograph:

