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**Customer:**

**P/N:**

**SPH-3-RF050**

**SPECIFICATION  
FOR  
RF05 38AWG Micro Coaxial Cable**

<b>Prepared</b>	<b>Checked</b>	<b>Approved</b>
Isabella May 27, 2020	Michael May 27, 2020	Michael May 27, 2020

**Issue and Revision Record**

No.	Date	Description	Prepared	Checked	Approved
0	May 27, 2020	Initial Issue	Isabella	Michael	Michael

## 1. Scope:

This specification covers PFA insulated micro-coaxial cable for internal wiring of electronic equipment, such as LCD panel.

[UL Style 10005/80°C,30V]

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

## 2. Construction:

	Item	Unit	Spec. Value
Inner Conductor	Material	---	Tinned copper alloy
	AWG size	---	38
	Stranding	No./mm	7/0.04
	Pitch	mm	<=1.50
	Dia.(approx)	mm	0.12
Insulation	Material	---	PFA
	Nom. Thickness	mm	0.11
	Dia.(approx)	mm	0.34±0.03
	Color	---	<b>Upon your request</b>
Outer Conductor	Type	---	Wrap (left-hand lay)
	Material	---	Tin plated copper alloy
	Strand	mm	0.025
	Dia.(approx)	mm	0.39
Jacket	Material	---	PFA
	Nom. Thickness	mm	0.030
	Color	---	<b>Upon your request</b>
	Dia.(approx)	mm	0.50± 0.05

Non-halogen specification for plastic portion (material) is as the table below

Substance	Restriction (ppm)	Testing method
Cl	≦ 900	EN14582, IEC61189-2, JPCA-ES-01-1999
Br	≦ 900	
Cl+Br	≦ 1500	
Sb <sub>2</sub> O <sub>3</sub>	≦ 1000	US EPA3050B REV. 2 1996, US EPA3052 1996
Red Phosphorus	≦ 1000	-----

## 3. Characteristics:

Test Item	Test Condition	Specified Value
Rating temperature	°C	80
Rating voltage	V	30
Inner conductor resistance(at 20°C)	Ω/km	Max.3000
Dielectric strength 1>	-	Withstand A.C.500V for 1min
Insulation resistance 1> (at 20°C)	M.Ω-km	Min. 1000
Flammability	-	VW-1
Allowable current (Ref.) 2>	A	0.6
Impedance	Ω	50±3.5

1> Applied between inner conductor and outer conductor.

2> Single coaxial cable in the air, at ambient temperature 40°C,max. conductor temperature 80°C

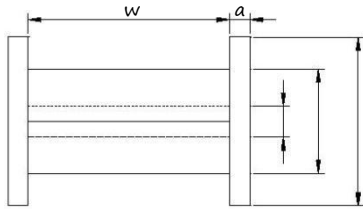
## 4. Packing :

4.1 Unit length:

(1) Standard length 1000m/reel (splices:2~3)

(2) Min. length with no splices:100m/reel

4.2 Package: Plastic reel (code:P-3A) into carton box.



(Unit :mm)

Code	D	d	w	a	h
P-3A	130	60	90	10	25

## 5 Marking:

### 5.1 Cable illustration:

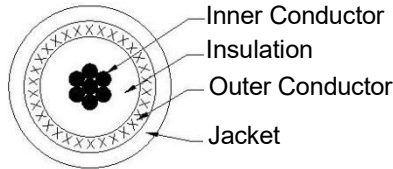


Fig.1 Cross-section of cable

### 5.2 Marking on the cable

No marking on the cable

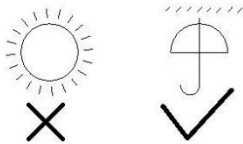
### 5.2 Marking on the tag:

Each reel shall be tagged to show the following information with UL label.

- |                      |                           |
|----------------------|---------------------------|
| (1) UL Style No.     | (8) Rating temperature    |
| (2) Conductor size   | (9) Rating voltage        |
| (3) No. of conductor | (10) Date of manufacture  |
| (4) Color.           | (11) Insulation thickness |
| (5) Lot No.          | (12) Covering thickness   |
| (6) Length.          | (13) Name of manufacture  |
| (7) File No.         | (14) Use                  |

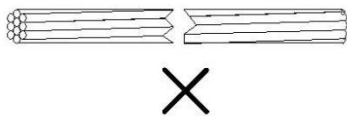
## 6 Notice of application:

### 6.1 Please store the cable in the dry and cool place



### 6.2 When using the cable, be care not to break it because the cable is very thin and small

### 6.3 When peeling the insulation, please be care of not breaking the inner conductor



### 6.4 When assembling suggest the tinned plated conditions as follows:

240±5℃, M705E SN, JAMCO-325 flux, 2~3s

And do not immerse the insulation and jacket into tin. Because too high temperature and too long time will cause the insulation and jacket softening and shrinking

### 6.5 When assembling please do not damage the insulation, otherwise short circuit between inner conductor and outer conductor will be caused

### 6.6 Please don't use some organic compound wash the cable

### 6.7 The material of insulation is Teflon PFA. The high and long time using temperature of it is 260℃.

And it will melt at about 301℃, and will decompose at about 370℃. Please notice these

### 6.8 When tearing the bag, please do not use the sharp tools to avoid damaging the cable in the bag.

