Hitachi

Customer:
P/N:

SPH-3-1235

SPECIFICATION
FOR
UL1354-SX 1X36AWG

Prepared	Checked	Approved

Issue and Revision Record

No.	Date	Description	Prepared	Checked	Approved
0	Nov.16 2006	Refer to SPH-3-800D and MC-suzhou083	D. Dong	B. Wong	B. Wong

1. SCOPE:

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

[UL Style 1354/80℃,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	---	36
	Stranding	No./mm	7/0.05
	Pitch	mm	<=1.70
	Dia.(approx)	mm	0.15
Insulation	Material	---	PFA
	Nom. Thickness	mm	0.06
	Dia.(approx)	mm	0.27
	Color	---	Violet
Outer Conductor	Type	---	Wrap (left-hand lay)
	Material	---	Tinned copper
	Strand	mm	0.032
	Dia.(approx)	mm	0.34
Shield	Material	---	Cu metalized polyester tape
	Dia.(approx)	mm	0.35
Jacket	Material	---	Polyester tape
	Nom. Thickness	mm	0.01
	Color	---	Red
	Dia.(approx)	mm	0.38±0.02

3. Characteristics:

Test Item	Test Condition	Specified Value
Rating temperature	℃	80
Rating voltage	V	30
Inner conductor resistance(at 20℃)	Ω/km	Max.1900
Dielectric strength 1>	-	Withstand A.C.500V for 1min
Insulation resistance 1> (at 20℃)	MΩ-km	Min. 1000
Desquamation of jacket	-	50~250g/25mm
Allowable current (Ref.) 2>	A	0.7
Characteristic Impedance	Ω	31.5±3

1> Applied between inner conductor and outer conductor.

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

4. Packing :

4.1 Unit length:

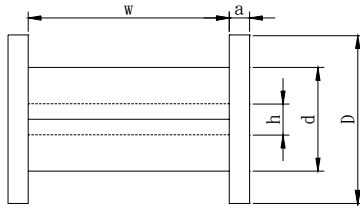   (1) Standard length with no splices:1000m/reel

    (2) Min. length with no splices:400m/reel

4.2 Package:

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

(Unit :mm)

Code	D	d	w	a	h

(Unit :mm)

Fig.1 Dimension of plastic reel (P-3A)

Code	D	d	w	a	h
P-3A	130	80	60	10	25

5. Marking:

5.1 Marking on the cable:
   None

5.2 Marking on the tag:

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

   (1) UL Style No.
   (2) Conductor size
   (3) No. of conductor
   (4) Color.
   (5) Lot No.
   (6) Length.
   (7) File No.

   (8) Rating temperature
   (9) Rating voltage
   (10) Date of manufacture
   (11) Insulation thickness
   (12) Covering thickness
   (13) Name of manufacture
   (14) Use

6. Parts name code:

Left-hand lay wrap type: UL 1354-SX 1X36AWG

- Inner conductor
- Insulation
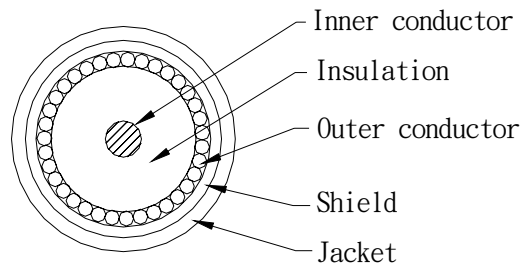- Outer conductor
- Shield
- Jacket

Fig.2 Cross-section of cable

Material Safety Data Sheet

1. Product and Company identification:
   Product name: UL1354-SX 1X36AWG coaxial wire (Red)
   Company name: Shin Din Cable, Ltd.
   Address: Pak Mong, Xili, Nanshan, Shenzhen city, China
   Fax No.: 86-755-2765 3333
   Tel No.: 86-755-2765 3459

2. Composition/Information on ingredient:
   Single substance or mixture: Mixture
   Conductor: tinned copper alloy
   Insulation: PFA, CUJ/PET, AC/PET

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.