

# SPECIFICATION

FOR

UL RECOGNIZED LEAD FREE IRRADIATED PVC  
INSULATED WIRES FOR I.D.C. (PITCH=1.0mm)

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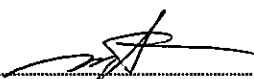
[ P/N ; UL1571(IR)-SR 1X30AWG(7/0.102)LF D=0.56 P-10  
UL1571(IR)-SR 1X30AWG(7/0.102)LF D=0.56 P-30K ]

*Quantity* .....

*Your Ref. No.* .....

*Our Ref. No.* .....

*Signed by* .....

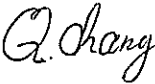
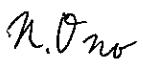
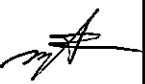
  
Masato Miyataki

Manager

Engineering Dept.

**Hitachi Cable, Ltd.**  
**Hitachi Cable Fine Tech, Ltd.**

## Issue and revision record

Rev. No.	Issue date	Item	Prepared by	Reviewed by	Approved by
-	Oct. 15, 2001	Initial issue	K.Koshikawa	H.Komuro	H, Kimura
1	Oct. 18, 2007	1. Specification No. is changed. SP01-23-90855 ↓ SP01-23-90855 Rev.1 2. Control of chemical Substances is added. 3. Product description is added.	 <hr/> Q. Chang	 <hr/> N. Ono	 <hr/> M.Miyataki

## **1. Scope**

This specification covers UL recognized lead free irradiated PVC insulated wires for 1mm pitch I.D.C.connector for internal wiring of electronic equipment.

[ UL Style : 1571 / 80°C, 30V ]

Use : Internal wiring of Class 2 circuits in electronic equipment.

## **2. Applicable standards**

(1)UL subject 758

(2) Japan Electrical Appliance and Material safety Law(DENAN-Law) [ Latest version ]

## **3. Construction and materials**

shown in the Table 1

## **4. Properties**

shown in the Table 1

## **5. Marking**

No marking

## **6. Packing**

### **6.1 Unit length and package style**

Unit length : max. 4,880m

Package : Plastic spool (P-10 ;P-30K; shown in the Fig.1)

### **6.2 Marking on the tag**

Each package shall be tagged to show the following information with UL stamp.

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

## **7. Recognized data**

(1)UL file No. : E41447

(2) DENAN-Law : F-HDH1-002 or F-HDT1-002  
approval No.  
(-F-)

**8. Product description**

UL1571 (IR)- SR 1 × 30AWG ( 7 / 0.102) LF D=0.56 P-10  
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① UL Style No.
- ② Lead free irradiated PVC Insulation
- ③ Applicable connector
- ④ No. of conductor
- ⑤ Conductor size
- ⑥ No. of strand
- ⑦ Dia. of strand
- ⑧ Lead free
- ⑨ Dia. of Wire
- ⑩ Packing style

**9. Control of Chemical Substances**

Control of Chemical Substances in this product shall be controlled as below.

**9.1 6 substances of RoHS Directive**

(1) Applicable standard and statute

(a) Directive of 2002/95/EC

(Directive 2002/95/EC of the European Parliament and of the Council on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment)

(b)2005/618/EC COMMISSION DECISION of 18 August 2005

(amending Directive 2002/95/EC of the European Parliament and of the Council for the purpose of establishing the maximum concentration values for certain hazardous substances in electrical and electronic equipment)

(c)JIS C 0950:2005

(The marking for presence of the specific chemical substances for electrical and electronic equipment)

(2)The maximum concentration values for certain hazardous substances.

	Chemical Substances	Concentration value	
		Resin, a paint, and ink	Others
1	Cadmium and Cadmium Compounds	Max. 75ppm	
2	Hexavalent Chromium Compounds	Max. 1000ppm	
3	Laed and Lead Compounds	Max. 100ppm	Max. 1000ppm
4	Mercury and Mercury Compounds	Max. 1000ppm	
5	Polybrominated Biphenyls(PBBs)	Max. 1000ppm	
6	Polybrominated Diphenyl ethers(PBDEs)	Max. 1000ppm	

**9.2 15 substances of JGPSSI Level A**

(1) Applicable Standard

JGPSSI Manual for Survey of Chemical Substances Contained in Parts and Materials(ver.2:04.04.19)

(2) Maximum concentration value

Not intentionally added.

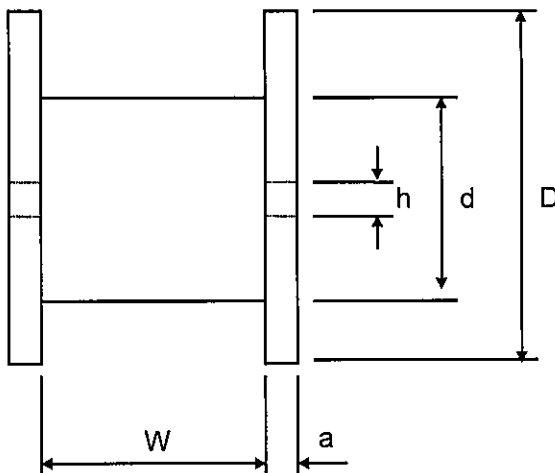
6 substances of the clause 9.1 shall be controled as clause 9.1 (2).

Japan Green Procurement Survey Standardization Initiative (JGPSSI)

Table 1 Construction and materials of wire

Item	Unit	Specified value	
UL style	-	1571	
Rating temperature	°C	80	
Rating voltage	V	30	
No. of conductor	-	1	
Conductor	material	Tinned annealed copper wire	
	AWG size	30	
	stranding	No./mm	7/0.102
	diameter	mm	nominal 0.31
Insulation	material	-	lead free irradiated PVC
	thickness	mm	nominal 0.125
		mm	min. average 0.12
		mm	min. at any point 0.10
	diameter	mm	0.56±0.02
color	-	brown, red, orange, yellow, green, blue, violet, gray, white, black, pink, lightblue	
Conductor resistance	Ω/km	max. 354 (at 20°C)	
Insulation resistance*	MΩ-km	min. 10 (at 20°C)	
Dielectric strength*	-	withstand A.C.500V for 1min.	
Flammability	-	VW-1, -F-( DENAN-Law )	
Approx. mass	kg/km	0.75	

\* The spark test may be substituted in a production line.



Type	D (mm)	d (mm)	W (mm)	a (mm)	h (mm)
P-10	200	90	110	12	25
P-30K	300	130	130	15	30

Fig.1 Plastic spool