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Spec No. SPV-02-1644

Date.: Feb. 06th, 2020

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SPECIFICATION

FOR

LEAD FREE PVC INSULATED AND JACKETED CABLE

[P/N: CO-VV (SPV1644) 10x0.3SQ(17/0.16TA) LF]

Prepared	Checked	Approved
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06-2-2020	0 6 - 2 - 2020	06-2-2000
HCV/DE	HCV/AM	HCV/GM

Revision record

No.	Date	Rev.	Contents	Prepared by	Reviewed by	Approved by
1	Feb. 06 th , 2020	Initial Issue	Initial Issue	M	Mann	11.5 ymfd
				Kien NT	Cuong NM	Suzuki M
a						

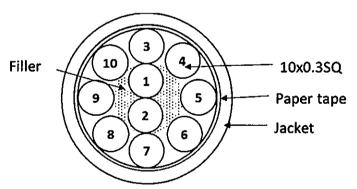
1. Scope

This specification covers lead free PVC insulated and jacketed cables.

Rating Temperature: 80°C Rating Voltage: 30V

2. Construction and Material

	Description		Specification		
	Material	-	Tinned annealed copper wire (TA) stranded		
Conductor	Size	SQ	0.3		
Conductor	Stranding	No./mm	17/0.16		
	Diameter (Nom.)	mm	0.76		
	Material	-	Semi-Rigid, Lead free PVC		
Insulation	Thickness (Nom.)	mm	0.25		
insulation	Diameter (Nom.)	mm	1.26		
	Color & Identification	-	See table 1		
Cabling	Binder tape	-	Paper tape		
Caomig	Diameter (Nom.)	mm	5.2		
	Material	-	Heat resistance, Lead free PVC		
Jacket	Thickness (Nom)	mm	0.6		
Jacket	Diameter	mm	6.4 ± 0.5		
	Color (color code)	_	Black (BK)		



(*) Suitable fillers may be applied to make a circular cross section.

Fig. 1 Cross-section of cable

3. Marking

The completed cable shall be printed following marking format on the surface throughout entire length by regular interval

HITACHI Manufacture year

Note: Marking format subject to change without notice according with safety revision

4. Properties

No.	Test Item	Test Detail	Standard	Test		
110.	o. Test item Test Detail		Standard	Routine	Type	Approval
1	Dielectric strength	A.C. 2000V/1min; No breakdown	Specification	Yes	X	Yes
2	Conductor resistance	Max. 65.7 Ω/km at 20°C	Specification	X	Yes	Yes
3	Insulation resistance	Min. 10 MΩ-km (20°C)	Specification	X	Yes	Yes

5. Packing

5.1 Packing

Each product shall be packed in coil for transportation, and unit length: 200m.

5.2 Marking on the Package

Each package shall be tagged to show the following information

(1) Production name

(5) Lot No.

(2) Conductor size

(6) Length

(3) No of conductor

(7) Date of manufacturing

(4) Color

(8) Name of manufacturer

6. Order form

Example:

<u>CO</u>	- `	$\overline{\mathbf{V}}$	(SPV1644)	10x0.3SQ(17/0.16TA)	$\underline{\mathbf{LF}}$	$\underline{\mathbf{BK}}$	<u>C200</u>
1		2	3	4	5	6	7

1	CO	For Computer
2	VV	PVC insulation and jacket
3	SPV1644	Specification No. SPV-02-1644
4	10x0.3SQ(17/0.16TA)	No. of core x Conductor size & stranding
5	LF	Lead Free
6	BK	Jacket Color (Black)
7	C200	Packing style and unit length, "C" for coil in m

7. Control of Chemical Substances

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

10 substances of RoHS Directive

- (1) Applicable standard and statute
 - (a) Directive 2011/65/EU 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 2011/65/EU 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 0950:2008(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		
	Chemical Substances	Resin, a paint, and ink	Others	
1	Cadmium and Cadmium Compounds	Less than 5ppm	Lessthan 75ppm	
2	Hexavalent Chromium Compounds	Less than 1000ppm		
3	Lead and Lead Compounds	Less than 100ppm	Lessthan1000ppm	
4	Mercury and Mercury Compounds	Less than 1000ppm		
5	Polybrominated Biphenyls(PBBs)	Less than 1000ppm		
6	Polybrominated Diphenyl ethers(PBDEs)	Less than 1	000ppm	
7	Bis (2-ethylhexyl) phthalate (DEHP)*1 (CAS No.117-81-7)	Less than 1000ppm		
8	Benzyl butyl phthalate (BBP) * 1(CAS No. 85-68-7)	Less than 1000ppm		
9	Dibutyl phthalate (DBP)(CAS No. 84-74-2) * 1	Less than 1000ppm		
10	Disobutyl phthalate (DIBP) * 1CAS No. 84-69 5)	Less than 1	1000ppm	

^{*1 :} COMMISSION DELEGATED DIRECTIVE (EU) 2015/863

Table 1: Color & Identification

Core No.	Color	Core No.	Color
1	Black	6	Brown
2	White	7	Blue
3	Red	8	Orange
4	Green	9	Gray
5	Yellow	10	Violet