SPECIFICATION

Polyvinyl chloride insulated flexible cords [Soft type] S-VCTF

MITSUBOSHI CO., LTD.

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PN - 040000C

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Name of Manufacture

Polyvinyl chloride insulated flexible cords [Soft type]

Applicable Standards

JIS C 3005, JIS C 3102, JIS C 3306

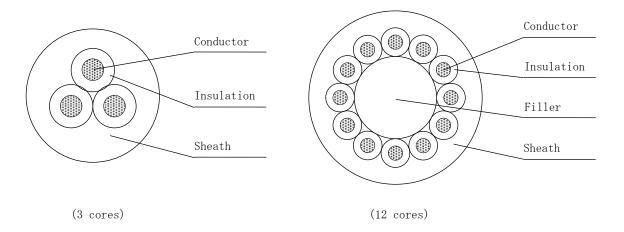
Electrical appliance and material safety law, Technical standards for electrical installations

1. Scope

This Specification covers quality level of S-VCTF used in power supply circuit of portable electrical machinery and apparatus not higher than 300V. However, $0.3, 0.5 \text{mm}^2$ is limited to the use of less than 100V.

2. Construction and Materials

(Construction)



2	1	Conductor	Α	stranded	wire	is	composed	of	the	annealed	conner	wire	specified	in	IIS C 3102	

2.2 Insulation Polyvinyl chloride compound

The average thickness of the insulation is not less than 90% of the value in Attached Tables. The minimum thickness of the insulation is not less than 80% of the value in Attached Tables.

2.3 Identification of cores

Identification of cores are made by the color of insulation.

01 00103

2.4 Stranding As the need arises, cores are stranded with a suitable filler.

of cores

2.5 Sheath Polyvinyl chloride compound (Soft type)

The average thickness of sheath is not less than 90% of the value in Attached Tables. The minimum thickness of sheath is not less than 70% of the value in Attached Tables.

3. Characteristics

Item	Characteristics	Test method
Appearance	The surface be smooth and there is not a flaw in case of use.	JIS C 3005 4.1
Construction	It depends on the Attached Table with structure and size.	JIS C 3005 4.3
Conductor resistance (at 20°C)	Not more than the value in Attached Table.	JIS C 3005 4.4
Dielectric withstand voltage (in water)	Capable of withstanding 1000V for 1min.	JIS C 3005 4.6 a)
Insulation resistance (at 20°C)	Not less than the value in Attached Table.	JIS C 3005 4.7.1 a)

4. Marking on cable

The following information is continuously marked on cable.

- ① The symbol of the cable
- ② Nominal sectional area
- 3 Manufacture's name or abbreviation

5. Length and packaging

According to the Attached Table.

6 . Marking on package

The following information is marked on package.

- ① The symbol of the cable
- ② Number of cores and nominal sectional area
- 3 Length
- 4 Month and year of manufacture or Lot No.
- ⑤ Manufacture's name
- ⑥ ♥ JET (only apply to Electrical Appliance and Material Safety Law)

Attached Table 1 : Construction, Size, Weight, and electric characteristic

$0.5\,\mathrm{mm}^2$

N. I	Conductors		Insulation		Sheath	0verall	Approx.	Conductor	Insulation	Standard	
Number of core	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	diameter (approx.) (mm)	mass (kg/km)	resistance 20°C (Ω/km)	resistance 20°C (MΩ•km)	Unit length And packaging	
2					1.0	5.8	43			1.0.0	
3	(A) 20/0.18	0.9	0.5	1. 9	1.0	6. 1	51	37.8	5	100m Bundle	
4					1.0	6.6	61			BuildIC	

$0.75\,\mathrm{mm}^2$

	Conducto	ors	Insul	ation	Sheath	0veral1	Approx.	Conductor	Insulation	Standard
Number of core	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.)	diameter (approx.)	mass (kg/km)	resistance 2 0 °C (Ω/km)	resistance 20°C (MΩ•km)	Unit length And packaging
2					1.0	6.6	60			
3					1.0	7.0	70	25. 1		
4					1.0	7.6	85			
5					1.0	8.2	100			
6					1.0	8.9	120			
7	(A) 30/0.18	1. 1	0.6	2. 3	1.0	9.6	140		5	1 0 0 m
8					1.0	10.3	160	25. 6		Bundle
1 0					1.0	11.8	205	25.0		
1 2					1. 0	13. 2	255			
1 6					1. 0	13.0	265			
2 0					1. 1	14.7	330			

1. 25 mm²

	Conducto	ors	Insul	ation	Sheath	0veral1	Approx.	Conductor	Insulation	Standard	
Number of core	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	diameter (approx.) (mm)	mass (kg/km)	resistance $20^{\circ}\mathrm{C}$ (Ω/km)	resistance 20°C (MΩ•km)	Unit length And packaging	
2					1.0	7.4	80				
3					1.0	7.8	95	15. 1			
4					1.0	8.5	115				
5					1.0	9.3	140				
6					1.0	10. 1	165				
7	(A) 50/0.18	1.5	0.6	2. 7	1.0	10.9	195	15.4	5	100m Bundle	
8					1.0	11.7	220				
1 0					1. 1	13.6	290	15. 4			
1 2					1. 1	15. 3	360				
1 6				Ī	1. 1	15. 1	380				
2 0					1.2	17.0	475				

$2 \, \mathrm{mm}^{\, 2}$

	Conducto	ors	Insul	ation	Sheath	0veral1	Approx.	Conductor	Insulation	Standard
Number of core	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.)	diameter (approx.)	mass (kg/km)	resistance 2 0 °C (Ω/km)	resistance 20°C (MΩ•km)	Unit length And packaging
2					1. 0	8.0	100			
3					1.0	8.5	120	9. 79		
4					1.0	9.2	150			
5					1.0	10. 1	180			
6					1.0	11.0	215			
7	(A) 37/0.26	1.8	0.6	3.0	1.0	11.9	255		5	1 0 0 m
8					1.0	12.8	290	9. 98		Bundle
1 0					1. 1	14. 9	380	9. 90		
1 2					1. 2	17.0	485			
1 6					1. 2	16.8	520			
2 0					1. 2	18.6	640			

3.5 mm²

	Conducto	ors	Insulation		Sheath	Overall	Approx.	Conductor	Insulation	Standard	
Number of core	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	diameter (approx.) (mm)	mass (kg/km)	resistance 20°C (Ω/km)	resistance 2 0°C (MΩ•km)	Unit length And packaging	
2					1.0	9.4	145				
3	(A) 45/0.32	0.32 2.5		3. 7	1. 0	10.0	185	5. 24	5	1 0 0 m Bundle	
4					1.0	10.9	230			Dullate	

5.5 mm²

	Conductors		Insulation		Sheath	Overall	Approx.	Conductor	Insulation	Standard
Number of core	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.)	diameter (approx.)	mass (kg/km)	resistance 20°C (Ω/km)	resistance 20°C (MΩ•km)	Unit length And packaging
2					1.0	11.4	220			
3	(A) 70/0.32	3. 1	0.8	4. 7	1. 0	12. 1	280	3. 37	5	100m Bundle
4					1. 1	13.5	355			Dullule

Identification of cores

2

 $\begin{pmatrix} 1 \\ 2 \end{pmatrix}$

3

 $\begin{pmatrix} 1 \\ 3 \end{pmatrix} \begin{pmatrix} 2 \end{pmatrix}$

4



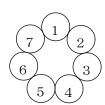
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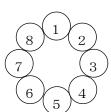
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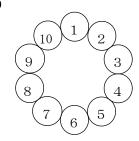
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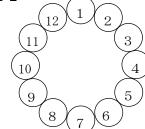
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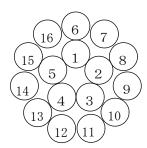
1 0



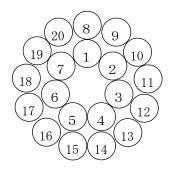
1 2



1 6



2 0



Number of core	1	2	3	4	5	6	7	8	9	10
Core color or Iine color/core color	Black	White	Red	Green	Yellow	Brown	Blue	Gray	0range	Light Green
Number of core	11	12	13	14	15	16	17	18	19	20
Core color or Iine color/core color	Pink	Light Blue	Black/ White	Black/ Red	Black/ Green	Black/ Yellow	Black/ Brown	Black/ Blue	Black/ Gray	Black/ Orange