

S P E C I F I C A T I O N

Natural rubber insulated chloroprene rubber sheathed cable for holder
WRNCT

M I T S U B O S H I C O . , L T D .

No.

RN-250000A

S P E C I F I C A T I O N

MITSUBOSHI CO., LTD.

Name of Manufacture

Natural rubber insulated chloroprene rubber sheathed cable for holder

Applicable Standards

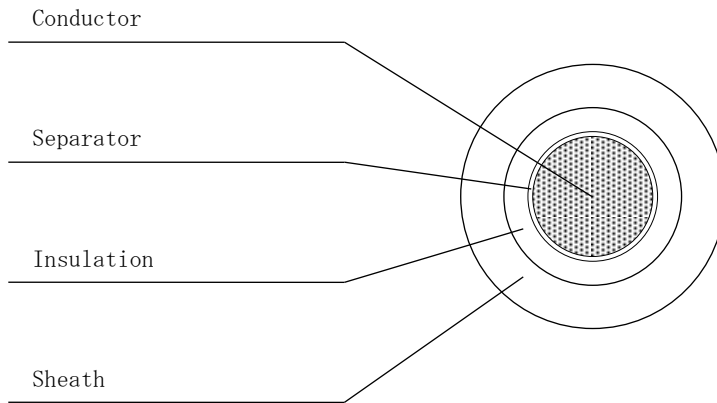
JIS C 3404, JIS C 3102, JIS C 3152, JIS C 3005, Electrical appliance and material safety law

1. Scope

This Specification covers quality level of WRNCT mainly to be used on the secondary side for holder of arc welders.

2. Construction and materials

(Construction)



- | | | |
|------|------------|--|
| 2. 1 | Conductor | A stranded wire is composed of the annealed copper wire specified in JIS C 3102 or the tinned annealed copper wire specified in JIS C 3152. |
| 2. 2 | Separator | A suitable separator is applied on the conductor. |
| 2. 3 | Insulation | Natural rubber 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. 4 | Sheath | Chloroprene rubber compound
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 80% 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	Not more than the value in Attached Table.	JIS C 3005 4.4
Dielectric withstand voltage (in water)	Capable of withstanding 1500V for 1min.	JIS C 3005 4.6 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

Example: WRNCT 2 2mm²



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WRNCT

22mm²

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 and nominal sectional area
- ② Length
- ③ Year of manufacture or lot No.
- ④ Manufacture's name

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

Size (mm ²)	Conductors		Insulation		Sheath	Overall diameter (approx.) (mm)	Approx. mass (kg/km)	※) Conductor resistance 20°C (Ω/km)	Standard Unit length And packaging
	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)				
14	7/99/0.16	5.3	0.8	7.0	1.6	10.2	230	1.35 1.44	200m Bundle
22	7/7/22/0.16	6.6	0.8	8.4	1.6	11.6	310	0.896 0.944	200m Drum
30	7/7/30/0.16	7.7	0.8	9.5	1.7	12.9	405	0.657 0.692	
38	7/7/38/0.16	8.7	0.8	10.5	1.8	14.1	495	0.519 0.546	
50	7/7/50/0.16	10.0	0.8	11.8	2.0	15.8	635	0.394 0.415	
60	7/7/60/0.16	10.9	0.8	12.7	2.0	16.7	740	0.328 0.346	
80	12/7/50/0.16	13.1	1.0	15.3	2.3	19.9	1,050	0.230 0.242	
100	12/7/60/0.16	14.3	1.0	16.5	2.4	21.3	1,235	0.192 0.202	

※) Upper section: (A) annealed copper wire
 Lower section: (TA) tinned annealed copper wire