SPECIFICATION

Chloroprene rubber sheathed cable for conductor $\ensuremath{WN\,C\,T}$

MITSUBOSHI CO., LTD.

No.

RN - 230000

SPECIFICATION

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Name of Manufacture

Chloroprene rubber sheathed cable for conductor

Applicable Standards

JIS C 3005, JIS C 3102, JIS C 3152, JIS C 3404

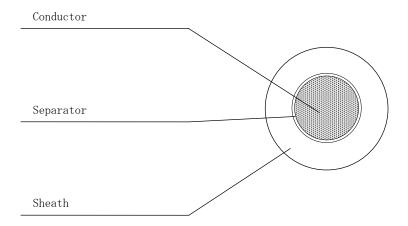
Electrical appliance and material safety law, Technical standards for electrical installations

1. Scope

This Specification covers quality level of \underline{WNCT} mainly to be used on the secondary side for conductor 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 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 1000V for 1min.	JIS C 3005 4.6 a)	
%1) Tensile properties	Sheath	Tensile strength	Not less than 13Mpa	JIS C 3005 4.16	
		Elongation	Not less than 300%		
**1)Thermal aging	Sheath	Tensile strength	Not less than 65% of the value before heating	JIS C 3005 4.17	
		Elongation	The rest than 30% of the ratio before heaving		
**1) Oil resist- ance	Sheath	Tensile strength	*2) Not less than 60% of the value before oil-	JIS C 3005 4.18	
		Elongation	Immersion		
*1) Flame retardance			To disappear naturally within 60 seconds	JIS C 3005 4.26.2 a)	
^{※1)} Impact			No damage nor crack to develop, number of broken component wires in each core not to exceed 30%	JIS C 3005 4.28	

- \divideontimes 1) The quality characteristic to enforce inspection regularly with an in-house standard.
- $\mbox{\%}\,2)$ For the test piece less than 1mm in thickness, not less than 50%.
- 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: $WNCT 2 2mm^2$

★ MITSUBOSHI WNCT 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

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

	Conductors		Sheath	Overall	Approx.	※)	Standard
Size (mm²)	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)	diameter (approx.)	Approx. mass (kg/km)	Conductor resistance $20^{\circ}\mathrm{C}$ (Ω/km)	Unit length And packaging
14	88/0.45	4. 9	2. 3	9. 6	210	1. 32 1. 39	200m Bundle
22	7/20/0.45	7. 0	2. 3	11.5	315	0. 844 0. 892	
30	7/27/0. 45	8. 1	2. 5	13. 0	415	0. 625 0. 661	
38	7/34/0.45	9. 1	2.6	14. 1	505	0. 496 0. 525	
50	19/16/0.45	10. 4	2.7	15. 6	620	0. 394 0. 411	
60	19/20/0.45	11.6	2.8	17. 0	755	0. 311 0. 329	
80	19/27/0.45	13. 5	3. 0	19. 2	990	0. 230 0. 243	
100	19/34/0.45	15. 2	3. 2	21.3	1, 235	0. 183 0. 193	
125	19/42/0.45	16.8	3. 3	23. 6	1, 505	0. 148 0. 156	2 0 0 m Drum
150	27/34/0. 45	18. 7	3. 5	25. 4	1,710	0. 129 0. 136	-
200	37/34/0. 45	21. 2	3.8	28. 4	2, 305	0. 0939 0. 0993	
250	37/42/0. 45	23. 6	4. 0	31. 4	2, 830	0. 0760 0. 0803	
325	37/55/0.45	27. 0	4. 3	35. 7	3, 690	0. 0581 0. 0614	

W) Upper section: (A) annealed copper wire

Lower section: (T $\boldsymbol{A})$ tinned annealed copper wire