

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

Natural rubber sheathed cable for conductor
W C T

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

No.

RN-220000A

SPECIFICATION

MITSUBOSHI CO., LTD.

Name of Manufacture

Natural rubber sheathed cable for conductor

Applicable Standards

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

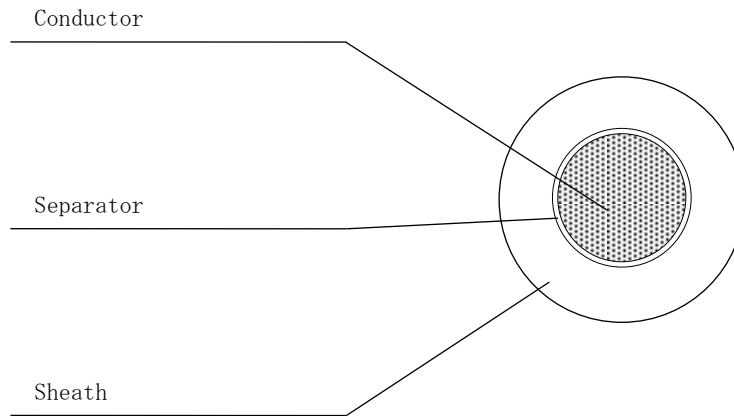
Electrical appliance and material safety law, Technical standards for electrical installations

1. Scope

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

2. Construction and materials

(Construction)



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|-----|-----------|---|
| 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 | Natural 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)

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: WCT 22mm²


 MITSUBOSHI WCT 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		Sheath	Overall diameter (approx.) (mm)	Approx. mass (kg/km)	※) Conductor resistance 20℃ (Ω/km)	Standard Unit length And packaging
	Composition	Outside diameter (approx.) (mm)	Thickness (approx.) (mm)				
14	88/0.45	4.9	2.3	9.6	200	1.32 1.39	200m Bundle
22	7/20/0.45	7.0	2.3	11.5	305	0.844 0.892	
30	7/27/0.45	8.1	2.5	13.0	400	0.625 0.661	
38	7/34/0.45	9.1	2.6	14.1	490	0.496 0.525	
50	19/16/0.45	10.4	2.7	15.6	600	0.394 0.411	200m Drum
60	19/20/0.45	11.6	2.8	17.0	735	0.311 0.329	
80	19/27/0.45	13.5	3.0	19.2	965	0.230 0.243	
100	19/34/0.45	15.2	3.2	21.3	1,200	0.183 0.193	
125	19/42/0.45	16.8	3.3	23.6	1,490	0.148 0.156	
150	27/34/0.45	18.7	3.5	25.4	1,690	0.129 0.136	
200	37/34/0.45	21.2	3.8	28.4	2,285	0.0939 0.0993	
250	37/42/0.45	23.6	4.0	31.4	2,810	0.0760 0.0803	
325	37/55/0.45	27.0	4.3	35.7	3,660	0.0581 0.0614	

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