

SPECIFICATION**For****MEA TYPE C (0080)
(NYY)**

450/750V 70°C Copper Conductor
PVC Insulated PVC Sheathed Power Cable
(450/750V, Cu/ PVC/PVC)

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CUSTOMER

Rev.	Date	Description
0	22/9/2020	Issued specification

Customer Document	Rev.
-	

Remark:

This document is based on the Customer Document for the structure and properties of electric wire and cable only. If there are different points, will be shown in deviation table.

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1. Scope

This specification covers 450/750V copper conductor polyvinyl chloride (PVC) insulated polyvinyl chloride (PVC) sheathed power cable.

Maximum conductor temperature shall be 70°C.

The cable shall be in accordance with TIS 11 Part 101-2553, Table 3 and MEA's specification No. S-017/2556.

2. Conductor

The conductor shall be solid and non-compacted concentric stranded uncoated annealed copper conductor in accordance with TIS 2427-2552, Class 1 and Class 2.

The direction of lay shall be left-hand (S) lay in the outermost layer.

3. Insulation

The insulation shall be polyvinyl chloride (PVC/C) compound meet the requirements of TIS 11 Part 101-2553.

The average thickness of the insulation shall be not less than that given in Table 1.

The minimum thickness shall not fall below the value in Table 1 by more than 10% plus 0.1 mm.

The color of insulation shall be black.

4. Sheath

The sheath shall be polyvinyl chloride (PVC/ST4) compound meet the requirements of TIS 11 Part 101-2553.

The average thickness of the sheath shall be not less than that given in Table 1.

The minimum thickness shall not fall below the value in Table 1 by more than 15% plus 0.1 mm.

The color of the sheath shall be black.

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5. Marking on Cable

The marking items shall be marked with suitable mean throughout the length of cable.

1. Manufacturer's name and/or trade mark "  YAZAKI..... : TYE"
2. Designation " MEA TYPE C NYY "
3. Rated voltage "450/750V "
4. Insulation and sheath material "PVC/PVC"
5. Max. operating rated temperature at conductor "70°C"
6. Number of core and size of conductor
7. TIS logo and standard number
8. The purchase contract number
9. The continuous reel length marking (in figure) shall be made on the sheath at every 1 meter starting from "0" (For size $\geq 16 \text{ mm}^2$)

6. Test and Properties


The test and properties of wire shall be carried out in accordance with TIS 11 Part 101-2553, TIS 2427-2552. and MEA's specification No. S-017/2556

7. Packing

The cable shall be placed on the non-returnable wooden reels .

The reels shall be lagged to provide the cable with physical protection during transportation and during ordinary storage and handling operation.

Each package shall be clearly marked as follows.

1. Rated voltage "450/750V "
2. Max. operating rated temperature at conductor "70°C"
3. Designation " MEA TYPE C (0080) "
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4. Number of core and size of conductor
5. Cable length
6. Net and gross weight
7. Month and year of manufacture
8. Rolling direction of reel and cable end position
9. Manufacturer's name and/or trade mark "  YAZAKI "
10. Drum number

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Table 1

No. of core	Size (mm ²)	Conductor			Insulation thickness nominal (mm)	Sheath thickness nominal (mm)	Overall diameter maximum (mm)	Conductor resistance at 20 °C maximum (Ohm/km)	Insulation resistance at 70 °C minimum (MOhm-km)	Weight of cable approx. (kg/km)	Standard packing length (m)
		No. of wires (wires)	Type	Diameter approx. (mm)							
1	1.5	1	Solid	1.38	1.5	1.8	9.0	12.1	0.0184	95	500
1	2.5	1	Solid	1.78	1.5	1.8	9.4	7.41	0.0157	110	500
1	4 (st)	7	Non-compacted	2.55	1.5	1.8	10.5	4.61	0.0124	140	500
1	6	7	Non-compacted	3.12	1.5	1.8	11.0	3.08	0.0107	170	500
1	10	7	Non-compacted	3.98	1.5	1.8	12.0	1.83	0.0088	220	500
1	16	7	Non-compacted	5.10	1.5	1.8	13.0	1.15	0.0074	290	500
1	25	7	Non-compacted	6.26	1.5	1.8	14.5	0.727	0.0061	400	500
1	35	19	Non-compacted	7.65	1.5	1.8	16.0	0.524	0.0053	500	500
1	50	19	Non-compacted	8.73	1.5	1.8	17.0	0.387	0.0046	650	500
1	70	19	Non-compacted	10.70	1.5	1.8	19.0	0.268	0.0039	850	500
1	95	19	Non-compacted	12.60	1.7	1.8	21.5	0.193	0.0038	1200	500
1	120	37	Non-compacted	14.21	1.7	1.8	23.0	0.153	0.0034	1400	500
1	150	37	Non-compacted	15.75	1.9	2.0	26.0	0.124	0.0034	1700	500
1	185	37	Non-compacted	17.64	2.1	2.0	28.0	0.0991	0.0034	2100	500
1	240	61	Non-compacted	20.25	2.3	2.2	31.5	0.0754	0.0033	2800	500
1	300	61	Non-compacted	22.68	2.5	2.2	35.0	0.0601	0.0032	3400	500
1	400	61	Non-compacted	25.65	2.7	2.2	38.5	0.0470	0.0030	4300	500
1	500	61	Non-compacted	28.80	3.1	2.4	43.0	0.0366	0.0031	5500	500

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