

# SPECIFICATION

For

**MEA TYPE C (0080)**

**(NYY)**

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

BY



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APP. \_\_\_\_\_

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CUSTOMER

Rev.	Date	Description
0	22/9/2020	Issued specification
1	1/10/2024	Update reference standard

Customer Document	Rev.
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**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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**SPEC NO. TYSS 8508 S**

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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 101-2559, 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 101-2559.

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 101-2559.

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 by printed at intervals not exceeding 1 meter with suitable means 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"

## **6. Test and Properties**


The test and properties of wire shall be carried out in accordance with TIS 11 Part 101-2559, 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) "  
(NYY)
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 <sup>2</sup> )	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	93	500
1	2.5	1	Solid	1.78	1.5	1.8	9.4	7.41	0.0157	109	500
1	4 (st)	7	Non-compacted	2.55	1.5	1.8	10.5	4.61	0.0124	137	500
1	6	7	Non-compacted	3.12	1.5	1.8	11.0	3.08	0.0107	165	500
1	10	7	Non-compacted	4.10	1.5	1.8	12.0	1.83	0.0088	218	500
1	16	7	Non-compacted	5.10	1.5	1.8	13.0	1.15	0.0074	289	500
1	25	7	Non-compacted	6.26	1.5	1.8	14.5	0.727	0.0061	383	500
1	35	19	Non-compacted	7.65	1.5	1.8	16.0	0.524	0.0053	505	500
1	50	19	Non-compacted	8.73	1.5	1.8	17.0	0.387	0.0046	620	500
1	70	19	Non-compacted	10.70	1.5	1.8	19.0	0.268	0.0039	860	500
1	95	19	Non-compacted	12.60	1.7	1.8	21.5	0.193	0.0038	1153	500
1	120	37	Non-compacted	14.21	1.7	1.8	23.0	0.153	0.0034	1413	500
1	150	37	Non-compacted	15.75	1.9	2.0	26.0	0.124	0.0034	1732	500
1	185	37	Non-compacted	17.64	2.1	2.0	28.0	0.0991	0.0034	2137	500
1	240	61	Non-compacted	20.25	2.3	2.2	31.5	0.0754	0.0033	2773	500
1	300	61	Non-compacted	22.68	2.5	2.2	35.0	0.0601	0.0032	3420	500
1	400	61	Non-compacted	25.65	2.7	2.2	38.5	0.0470	0.0030	4301	500
1	500	61	Non-compacted	28.80	3.1	2.4	43.0	0.0366	0.0031	5422	500

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