



SPECIFICATION**For****FAC**

Annealed Copper Stranded Conductor

BY 

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Rev.	Date	Description
0	13/9/2019	Issued specification

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CUSTOMER

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.

1. Scope

This specification covers bare annealed copper concentric stranded conductor for general use for electrical purpose.

The conductor shall be based on IEC 60228 : 2004, Class 2. (Same as TIS 2427-2552)

2. Component Wire

The component wire shall be uncoated annealed copper wire for electrical purposes.

The wire shall be clean, smooth and free from harmful defects.

3. Stranded conductor

The conductor shall be concentrically stranded uniformly and closely.

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

4. Test and Properties


The test and properties of the conductor shall be carried out in accordance with IEC 60228 : 2004, Class 2. (Same as TIS 2427-2552)

5. Packing

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

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

Each package shall be clearly marked as follows.

1. Designation "FAC"
2. Size of conductor
3. Cable length
4. Net and gross weight
5. Manufacturer's name and/or trade mark "  YAZAKI"
6. Rolling direction of reel

Test and Inspection

Sample Tests

- Maximum conductor resistance, Ohm/kmspecified in Table 1
- Construction.....specified in Table 1

Definition concerning the tests

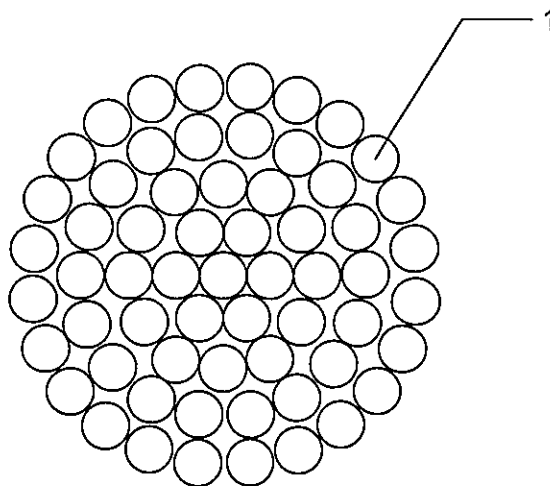
Routine tests: Tests made by the manufacturer on each manufactured length of cable to check that each length meets the specified requirements.

Sample tests: Tests made by the manufacturer on samples of completed cable or components taken from a completed cable, at a specified frequency, so as to verify that the finished product meets the specified requirements.

Type tests: Tests made before supplying, on a general commercial basis, a type of cable covered by this standard, in order to demonstrate satisfactory performance characteristics to meet the intended application.

Cable structure

Cross-sectional (Not scale)



No.	Structure	Material
1	Conductor	Annealed copper conductor

Application : Conductor for insulated cables and wires, grounded electrical system

Table 1

Nominal size (mm ²)	Conductor (wires/type)	Conductor diameter approx. (mm)	Conductor resistance at 20°C maximum (Ohm/km)	Weight Approx. (kg/km)	Standard length (m)
1.0	7/Non-Compacted	1.29	18.1	9	2000
1.5	7/Non-Compacted	1.59	12.1	14	2000
2.5	7/Non-Compacted	2.01	7.41	22	2000
4	7/Non-Compacted	2.55	4.61	36	2000
6	7/Non-Compacted	3.12	3.08	55	2000
10	7/Non-Compacted	3.95	1.83	85	2000
16	7/Non-Compacted	5.10	1.15	140	2000
25	7/Non-Compacted	6.24	0.727	210	2000
35	19/Non-Compacted	7.65	0.524	320	2000
50	19/Non-Compacted	8.65	0.387	410	2000
70	19/Non-Compacted	10.70	0.268	600	2000
95	19/Non-Compacted	12.60	0.193	850	2000
120	37/Non-Compacted	14.21	0.153	1100	1000
150	37/Non-Compacted	15.75	0.124	1300	1000
185	37/Non-Compacted	17.64	0.0991	1700	1000
240	61/Non-Compacted	20.25	0.0754	2200	500
300	61/Non-Compacted	22.68	0.0601	2800	500
400	61/Non-Compacted	25.65	0.0470	3500	500
500	61/Non-Compacted	28.80	0.0366	4500	500