

THAI-YAZAKI ELECTRIC WIRE CO., LTD.

TWO PACIFIC PLACE BUILDING

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DATE : July 24, 2013

MESSRS : SALES

PRODUCT NAME : 60227 IEC 02 THW (f)
(TWIST)

SPEC. NO. : TYSS 1283 G 19-G

SPECIFICATION FOR

450/750V 70 °C

Flexible Conductor PVC Insulated Twisted Wire

BY.  _____

(Somchai Chanthorn)

MANAGER, Cable Design Section

APP. _____

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CUSTOMER

APP.  _____

(Suchada Padungpien)

MANAGER, Development Department

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1. Scope

This specification covers 450/750V flexible copper conductor polyvinyl chloride (PVC) insulated twisted wire

Maximum conductor temperature shall be 70°C.

The wire shall be based on TIS 11 Part 3-2553, Table 3.

2. Conductor

The conductor shall be flexible stranded uncoated annealed copper conductor in accordance with TIS 2427-2552, Class 5.

The direction of lay shall be left-hand (S) lay.

3. Insulation

The insulation shall be polyvinyl chloride (PVC) compound meeting the requirements of TIS 11 Part 3-2553 PVC/C.

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.


4. Core Identification

The cores shall be identified by colors of insulation, as follow :

2-cores : blue, brown

5. Marking on Cable

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

1. Rated voltage "450/750V "
2. Insulation material "PVC"
3. Max. operating rated temperature at conductor "70°C"
4. Designation "60227 IEC 02 THW "
5. Number of core and size of conductor
6. Manufacturer's name and trade mark "  THAI YAZAKI"
7. TIS logo and standard number

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6. Cabling

The individual insulated cores shall be cabled together with suitable length of lay.

The direction of lay shall be left-hand (S) lay.


7. Test and Properties

The test and properties of wire shall be carried out in accordance with TIS 11 Part 3-2553 and TIS 2427-2552.

8. Packing

The finished wire shall be coiled and wrapped with plastic which shall be overlapped and secured 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 "60227 IEC 02 THW (f) "
(TWIST)
4. Number of cores and size of conductor
5. Length in metres
6. Net and gross weight
7. Month and year of manufacture
8. Manufacturer's name and trade mark "  THAI YAZAKI"

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Table 1

| No. of cores | Nominal size (mm ²) | Conductor strands (No./mm.) | Conductor diameter approx. (mm.) | Insulation thickness nominal (mm.) | Insulation diameter nominal (mm.) | Overall diameter approx. (mm.) | Conductor resistance at 20°C maximum (Ohm/km) | Insulation resistance at 70°C minimum (MOhm-km) | Weight approx. (kg/km.) | Standard packing length (m.) |
|--------------|------------------------------------|--------------------------------|-------------------------------------|---------------------------------------|--------------------------------------|-----------------------------------|--|--|----------------------------|---------------------------------|
| 2 | 1.5 | 30/0.25 | 1.60 | 0.7 | 3.2 | 6.5 | 13.3 | 0.010 | 42 | 100/C |
| 2 | 2.5 | 50/0.25 | 2.10 | 0.8 | 4.0 | 8.1 | 7.98 | 0.009 | 65 | 100/C |

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