

# 60227 IEC 01 THW

450/750V 70°C PVC INSULATED, SINGLE CORE



**Application** : Building wiring for installation on insulator or in raceway, dry and wet location

**Classification** : Maximum conductor temperature 70°C  
Circuit voltage does not exceed 750 volts.

**Standard** : TIS 11-2553 : Part 3, Table 1

**Construction** : Conductor : Solid or Stranded annealed copper, size 1.5 - 400 mm<sup>2</sup>

Insulation : Polyvinylchloride (PVC)

| Nominal cross sectional area (mm <sup>2</sup> ) | Number and diameter of wire (No./mm) | Insulation thickness (mm) | Overall diameter (mm) |      | Minimum insulation resistance at 70°C (MΩ.km) | Cable weight (approx.) (kg/km) | Standard length (m) |
|---|--------------------------------------|---------------------------|-----------------------|------|---|--------------------------------|---------------------|
|   |                                      |                           | Min                   | Max  |   |                                |                     |
| 1.5   | 1/1.38                               | 0.7                       | 2.6                   | 3.2  | 0.0110  | 21                             | 100/C               |
| 1.5   | 7/0.53                               | 0.7                       | 2.7                   | 3.3  | 0.0100  | 22                             | 100/C               |
| 2.5   | 1/1.78                               | 0.8                       | 3.2                   | 3.9  | 0.0100  | 33                             | 100/C               |
| 2.5   | 7/0.67                               | 0.8                       | 3.3                   | 4.0  | 0.0090  | 35                             | 100/C               |
| 4   | 1/2.25                               | 0.8                       | 3.6                   | 4.4  | 0.0085  | 48                             | 100/C               |
| 4   | 7/0.85                               | 0.8                       | 3.8                   | 4.6  | 0.0077  | 51                             | 100/C               |
| 6   | 1/2.74                               | 0.8                       | 4.1                   | 5.0  | 0.0070  | 67                             | 100/C               |
| 6   | 7/1.04                               | 0.8                       | 4.3                   | 5.2  | 0.0065  | 72                             | 100/C               |
| 10  | 1/3.56                               | 1.0                       | 5.3                   | 6.4  | 0.0070  | 112                            | 1000/D              |
| 10  | 7/1.35                               | 1.0                       | 5.6                   | 6.7  | 0.0065  | 120                            | 1000/D              |
| 16  | 7/1.70                               | 1.0                       | 6.4                   | 7.8  | 0.0050  | 181                            | 1000/D              |
| 25  | 7/2.14                               | 1.2                       | 8.1                   | 9.7  | 0.0050  | 284                            | 1000/D              |
| 35  | 19/1.53                              | 1.2                       | 9.0                   | 10.9 | 0.0043  | 381                            | 1000/D              |
| 50  | 19/1.78                              | 1.4                       | 10.6                  | 12.8 | 0.0043  | 516                            | 1000/D              |
| 70  | 19/2.14                              | 1.4                       | 12.1                  | 14.6 | 0.0035  | 726                            | 1000/D              |
| 95  | 19/2.52                              | 1.6                       | 14.1                  | 17.1 | 0.0035  | 1002                           | 1000/D              |
| 120   | 37/2.03                              | 1.6                       | 15.6                  | 18.8 | 0.0032  | 1253                           | 1000/D              |
| 150   | 37/2.25                              | 1.8                       | 17.3                  | 20.9 | 0.0032  | 1541                           | 1000/D              |
| 185   | 37/2.52                              | 2.0                       | 19.3                  | 23.3 | 0.0032  | 1931                           | 1000/D              |
| 240   | 61/2.25                              | 2.2                       | 22.0                  | 26.6 | 0.0032  | 2517                           | 1000/D              |
| 300   | 61/2.52                              | 2.4                       | 24.5                  | 29.6 | 0.0030  | 3148                           | 500/D               |
| 400   | 61/2.85                              | 2.6                       | 27.5                  | 33.2 | 0.0028  | 4008                           | 500/D               |

C : Packing in coil.  
D : Packing in drum.  
Colour : Black, White, Red, Blue, Green, Yellow, Green/Yellow, or upon customer request



# 60227 IEC 02

450/750V 70°C PVC INSULATED FLEXIBLE CONDUCTOR, SINGLE CORE



**Application** : For making cross connection between terminal inside appliances, instruments or apparatus

**Classification** : Maximum conductor temperature 70°C  
Circuit voltage does not exceed 750 volts.

**Standard** : TIS 11-2553 : Part 3, Table 3

**Construction** : Conductor : Flexible annealed copper, size 1.5 - 240 mm<sup>2</sup>

Insulation : Polyvinylchloride (PVC)

| Nominal cross sectional area (mm <sup>2</sup> ) | Number and diameter of wire (No./mm) | Insulation thickness (mm) | Overall diameter (mm) |      | Minimum insulation resistance at 70°C (MΩ.km) | Cable weight (approx.) (kg/km) | Standard length (m) |
|---|--------------------------------------|---------------------------|-----------------------|------|---|--------------------------------|---------------------|
|   |                                      |                           | Min                   | Max  |   |                                |                     |
| 1.5   | 30/0.25                              | 0.7                       | 2.8                   | 3.4  | 0.0100  | 22                             | 100/C               |
| 2.5   | 50/0.25                              | 0.8                       | 3.4                   | 4.1  | 0.0090  | 34                             | 100/C               |
| 4   | 56/0.30                              | 0.8                       | 3.9                   | 4.8  | 0.0070  | 50                             | 100/C               |
| 6   | 84/0.30                              | 0.8                       | 4.4                   | 5.3  | 0.0060  | 71                             | 100/C               |
| 10  | 80/0.40                              | 1.0                       | 5.7                   | 6.8  | 0.0056  | 118                            | 1000/D              |
| 16  | 126/0.40                             | 1.0                       | 6.7                   | 8.1  | 0.0046  | 176                            | 1000/D              |
| 25  | 196/0.40                             | 1.2                       | 8.4                   | 10.2 | 0.0044  | 276                            | 1000/D              |
| 35  | 276/0.40                             | 1.2                       | 9.7                   | 11.7 | 0.0038  | 376                            | 1000/D              |
| 50  | 396/0.40                             | 1.4                       | 11.5                  | 13.9 | 0.0037  | 538                            | 1000/D              |
| 70  | 360/0.50                             | 1.4                       | 13.2                  | 16.0 | 0.0032  | 742                            | 1000/D              |
| 95  | 475/0.50                             | 1.6                       | 15.1                  | 18.2 | 0.0032  | 977                            | 1000/D              |
| 120   | 608/0.50                             | 1.6                       | 16.7                  | 20.2 | 0.0029  | 1230                           | 1000/D              |
| 150   | 756/0.50                             | 1.8                       | 18.6                  | 22.5 | 0.0029  | 1533                           | 1000/D              |
| 185   | 925/0.50                             | 2.0                       | 20.6                  | 24.9 | 0.0029  | 1874                           | 1000/D              |
| 240   | 1221/0.50                            | 2.2                       | 23.5                  | 28.4 | 0.0028  | 2459                           | 1000/D              |

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