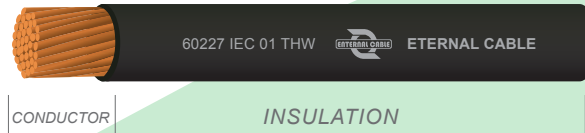




## 60227 IEC 01 THW

## TIS 11 Part 3-2553

450/750 70 °C SOLID AND STRANDAND CONDUCTOR PVC INSULATED, SINGLE CORE



### CABLE STRUCTURE

**Conductor** : Solid and stranded annealed copper,  
Size 1.5 mm<sup>2</sup> up to 400 mm<sup>2</sup>

**Insulation** : Polyvinyl chloride (PVC/C)

**Core Identification**  
Single-core : Any color

### TECHNICAL DATA

**Classification** : Maximum conductor temperature 70°C  
: Circuit voltage not exceeding 450/750 Volts  
450 Volts between Line-to-Earth  
750 Volts between Line-to-Line

**Testing voltage** : 2,500 Volts

**Reference standard** : TIS 11 Part 3-2553, Table 1

### APPLICATION

Building wiring for installation on insulator or in raceway,  
dry location.

Nominal cross sectional area (mm <sup>2</sup> )	Class of conductor	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ·km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
			Minimum (mm)	Maximum (mm)					
1.5	1	0.7	2.6	3.2	12.1	0.011	21	21	100/C
1.5	2	0.7	2.7	3.3	12.1	0.010	21	22	100/C
2.5	1	0.8	3.2	3.9	7.41	0.010	29	32	100/C
2.5	2	0.8	3.3	4.0	7.41	0.009	29	35	100/C
4	1	0.8	3.6	4.4	4.61	0.0085	39	47	100/C
4	2	0.8	3.8	4.6	4.61	0.0077	39	50	100/C
6	1	0.8	4.1	5.0	3.08	0.0070	49	65	100/C
6	2	0.8	4.3	5.2	3.08	0.0065	49	70	100/C
10	1	1.0	5.3	6.4	1.83	0.0070	69	110	100/C
10	2	1.0	5.6	6.7	1.83	0.0065	69	120	100/C
16	2	1.0	6.4	7.8	1.15	0.0050	92	180	100/C
25	2	1.2	8.1	9.7	0.727	0.0050	125	280	100/C
35	2	1.2	9.0	10.9	0.524	0.0043	154	370	100/C
50	2	1.4	10.6	12.8	0.387	0.0043	188	500	500/D
70	2	1.4	12.1	14.6	0.268	0.0035	239	700	500/D
95	2	1.6	14.1	17.1	0.193	0.0035	297	1,000	500/D
120	2	1.6	15.6	18.8	0.153	0.0032	347	1,200	500/D
150	2	1.8	17.3	20.9	0.124	0.0032	398	1,500	500/D
185	2	2.0	19.3	23.3	0.0991	0.0032	461	1,900	500/D
240	2	2.2	22.0	26.6	0.0754	0.0032	552	2,500	500/D
300	2	2.4	24.5	29.6	0.0601	0.0030	640	3,100	500/D
400	2	2.6	27.5	33.2	0.0470	0.0028	749	3,900	500/D

Class of conductor 1 : Solid  
2 : Strand

C : Packing in coil  
D : Packing in drum