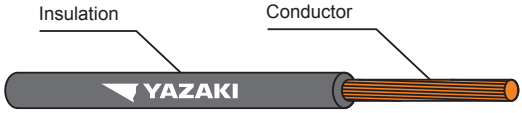
60227 IEC 01 or YK 60227 IEC 01 THW

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



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire

Insulation : Polyvinyl chloride (PVC/C)

Insulation color : Black
(Other colors available upon request)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
: Circuit voltage not exceeding 450/750 Volts

Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line

AC Testing voltage : 2,500 volts

Reference standard : TIS 11 Part 3-2553 Table 1

APPLICATION

Insulation : Polyvinyl chloride (PVC/C)

Cable name	Nominal cross sectional area	Conductor type	Insulation thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating			Cable weight approx.	Standard Length
				minimum	maximum			In free air at (40°C)	In Conduit in air at 40°C			
									Single-phase	Three-phase		
	(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)			(kg/km)	(m)
60227 IEC 01 THW	1.5	Solid	0.7	2.6	3.2	12.1	0.011	21	15	13	21	100/C
	1.5	Non-compacted	0.7	2.7	3.3	12.1	0.010	21	15	13	22	100/C
	2.5	Solid	0.8	3.2	3.9	7.41	0.010	28	21	18	32	100/C
	2.5	Non-compacted	0.8	3.3	4.0	7.41	0.009	28	21	18	35	100/C
	4	Solid	0.8	3.6	4.4	4.61	0.0085	37	28	24	47	100/C
	4	Non-compacted	0.8	3.8	4.6	4.61	0.0077	37	28	24	50	100/C
YK 60227 IEC 01 THW	6	Non-compacted	0.8	4.3	5.2	3.08	0.0065	49	36	31	70	100/C
	10	Non-compacted	1.0	5.6	6.7	1.83	0.0065	68	50	44	120	100/C
	16	Compacted	1.0	6.4	7.8	1.15	0.0050	91	66	59	180	100/C
	25	Compacted	1.2	8.1	9.7	0.727	0.0050	122	88	77	280	100/C
	35	Compacted	1.2	9.0	10.9	0.524	0.0043	151	109	96	370	100/C
	50	Compacted	1.4	10.6	12.8	0.387	0.0043	184	131	117	500	1000/D
	70	Compacted	1.4	12.1	14.6	0.268	0.0035	234	167	149	700	1000/D
	95	Compacted	1.6	14.1	17.1	0.193	0.0035	292	202	180	1000	1000/D
	120	Compacted	1.6	15.6	18.8	0.153	0.0032	341	234	208	1200	1000/D
	150	Compacted	1.8	17.3	20.9	0.124	0.0032	391	261	228	1500	1000/D
	185	Compacted	2.0	19.3	23.3	0.0991	0.0032	454	297	258	1900	1000/D
	240	Compacted	2.2	22.0	26.6	0.0754	0.0032	543	348	301	2500	1000/D
60227 IEC 01 THW	300	Non-compacted	2.4	24.5	29.6	0.0601	0.0030	628	398	343	3100	500/D
	400	Non-compacted	2.6	27.5	33.2	0.047	0.0028	736	475	406	3900	500/D

C = Packing in Coil
D = Packing in drum

B

60227 IEC 01 or YK 60227 IEC 01 THW

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

TIS 11 Part 3-2553

CABLE STRUCTURE

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Insulation color : Black
(Other colors available upon request)

TECHNICAL DATA

Classification : Maximum conductor temperature 70°C
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Rated voltage : 450 Volts between Line to Earth
: 750 Volts between Line to Line

AC 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.

B

Cable name	Nominal cross sectional area (mm²)	Conductor type	A.C Resistance R (Ω/km)	Inductance L (mH/km)	Reactance XL (Ω/km)	Impedance Z (Ω/km)
60227 IEC 01 THW	1.5	Solid	14.4777	0.5259	0.1652	14.4786
	1.5	Non-compacted	14.4777	0.5276	0.1658	14.4786
	2.5	Solid	8.8661	0.5121	0.1609	8.8676
	2.5	Non-compacted	8.8661	0.5202	0.1634	8.8676
	4	Solid	5.5159	0.4917	0.1545	5.5181
	4	Non-compacted	5.5159	0.4870	0.1530	5.5180
YK 60227 IEC 01 THW	6	Non-compacted	3.6852	0.5606	0.1761	3.6894
	10	Non-compacted	2.1896	0.5219	0.1640	2.1957
	16	Compacted	1.3776	0.4642	0.1458	1.3853
	25	Compacted	0.8700	0.4594	0.1443	0.8819
	35	Compacted	0.6271	0.4496	0.1412	0.6428
	50	Compacted	0.4633	0.4477	0.1406	0.4842
	70	Compacted	0.3210	0.4354	0.1368	0.3489
	95	Compacted	0.2314	0.4347	0.1366	0.2687
	120	Compacted	0.1836	0.4295	0.1349	0.2278
	150	Compacted	0.1491	0.4292	0.1348	0.2010
	185	Compacted	0.1194	0.4281	0.1345	0.1798
	240	Compacted	0.0914	0.4257	0.1337	0.1620
60227 IEC 01 THW	300	Non-compacted	0.0734	0.4177	0.1312	0.1504
	400	Non-compacted	0.0581	0.4160	0.1307	0.1430