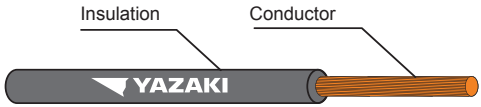
60227 IEC 02 THW (f)

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



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Flexible 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 3

APPLICATION

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

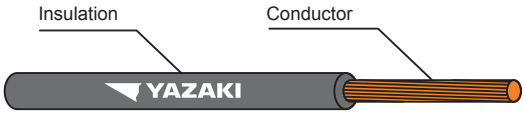
Nominal cross sectional area	Conductor type	Insulation thickness nominal	Overall diameter		Conductor resistance at 20°C maximum	Insulation resistance at 70°C minimum	Continuous current rating in free air maximum (40°C)	Cable weight approx.	Standard Length
			minimum	maximum					
(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
1.5	Flexible	0.7	2.8	3.4	13.3	0.010	16	24	100/C
2.5	Flexible	0.8	3.4	4.1	7.98	0.009	25	37	100/C
4	Flexible	0.8	3.9	4.8	4.95	0.0070	30	54	100/C
6	Flexible	0.8	4.4	5.3	3.30	0.0060	39	75	100/C
10	Flexible	1.0	5.7	6.8	1.91	0.0056	51	130	100/C
16	Flexible	1.0	6.7	8.1	1.21	0.0046	73	185	100/C
25	Flexible	1.2	8.4	10.2	0.780	0.0044	97	285	100/C
35	Flexible	1.2	9.7	11.7	0.554	0.0038	140	400	100/C
50	Flexible	1.4	11.5	13.9	0.386	0.0037	175	555	500/D
70	Flexible	1.4	13.2	16.0	0.272	0.0032	216	765	500/D
95	Flexible	1.6	15.1	18.2	0.206	0.0032	258	1,000	500/D
120	Flexible	1.6	16.7	20.2	0.161	0.0029	302	1,300	500/D
150	Flexible	1.8	18.6	22.5	0.129	0.0029	347	1,600	500/D
185	Flexible	2.0	20.6	24.9	0.106	0.0029	394	1,900	500/D
240	Flexible	2.2	23.5	28.4	0.081	0.0028	471	2,500	500/D

C = Packing in Coil
D = Packing in drum

Nominal cross sectional area	A.C Resistance	Inductance	Reactance	Impedance
	R	L	XL	Z
(mm^2)	(Ω/km)	(MΩ-km)	(MΩ-km)	(MΩ-km)
1.5	15.9135	0.5149	0.1618	15.9143
2.5	9.5481	0.5038	0.1583	9.5494
4	5.9227	0.4846	0.1522	5.9246
6	3.9485	0.4637	0.1457	3.9512
10	2.2854	0.4631	0.1423	2.2898
16	1.4478	0.4537	0.1394	1.4545
25	0.9334	0.4409	0.1385	0.9436
35	0.6630	0.4312	0.1355	0.6767
50	0.4621	0.4294	0.1349	0.4814
70	0.3258	0.4215	0.1324	0.3517
95	0.2469	0.4230	0.1329	0.2804
120	0.1932	0.4174	0.1311	0.2335
150	0.1550	0.4172	0.1311	0.2030
185	0.1277	0.4187	0.1315	0.1833
240	0.0969	0.4164	0.1308	0.1628

60227 IEC 06 IV (f)

300/500 V 70°C FLEXIBLE CONDUCTOR PVC INSULATED, SINGLE CORE



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Fiexible 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 300/500 Volts

Rated voltage : 300 Volts between Line to Earth
: 500 Volts between Line to Line

AC Testing voltage : 2,000 volts

Reference standard : TIS 11 Part 3-2553 Table 7

APPLICATION

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

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 in free air maximum (40°C)	Cable weight approx.	Standard Length
			minimum	maximum					
(mm^2)		(mm)	(mm)	(mm)	(Ω/km)	(MΩ-km)	(A)	(kg/km)	(m)
0.5	Flexible	0.6	2.1	2.5	39.0	0.013	3	9	100/C
0.75	Flexible	0.6	2.2	2.7	26.0	0.011	6	12	100/C
1	Flexible	0.6	2.4	2.8	19.5	0.010	10	15	100/C

C = Packing in Coil

Nominal cross sectional area	A.C Resistance	Inductance	Reactance	Impedance
	R	L	XL	Z
(mm^2)	(Ω/km)	(MΩ-km)	(MΩ-km)	(MΩ-km)
0.5	46.6635	0.5642	0.1773	46.6638
0.75	31.1090	0.5394	0.1695	31.1095
1	23.3318	0.5225	0.1641	23.3323

B