



TIS 11 Part 3-2553

CABLE STRUCTURE

Conductor : Solid and stranded annealed copper wire
 : Sizes 1.5 mm² up to 400 mm²

Insulation : Polyvinyl chloride (PVC/C)

Core identification : Single-cores : Any color

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

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 ²)	Conductor type	Insulation thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous currunt rating in free air maximum (40°C) (A)	Cable weight approx. (kg/km)	Standard Length (m)
			Minimum (mm)	Maximum (mm)					
1.5	Solid	0.7	2.6	3.2	12.1	0.011	21	21	100/C
1.5	Stranded	0.7	2.7	3.3	12.1	0.010	21	22	100/C
2.5	Solid	0.8	3.2	3.9	7.41	0.010	28	32	100/C
2.5	Stranded	0.8	3.3	4.0	7.41	0.009	28	35	100/C
4	Solid	0.8	3.6	4.4	4.61	0.0085	37	47	100/C
4	Stranded	0.8	3.8	4.6	4.61	0.0077	37	50	100/C
6	Solid	0.8	4.1	5.0	3.08	0.0070	49	65	100/C
10	Solid	1.0	5.3	6.4	1.83	0.0070	68	110	100/C
300	Stranded	2.4	24.5	29.6	0.0601	0.0030	628	3,100	500/D
400	Stranded	2.6	27.5	33.2	0.0470	0.0028	736	3,900	500/D

C : Packing in Coil
 D : Packing in Drum



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B

Nominal cross sectional area (mm ²)	Conductor type	A.C.Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
1.5	Solid	14.4777	0.5259	0.1652	14.4786
1.5	Stranded	14.4777	0.5276	0.1657	14.4786
2.5	Solid	8.8661	0.5121	0.1609	8.8675
2.5	Stranded	8.8661	0.5202	0.1634	8.8676
4	Solid	5.5159	0.4917	0.1545	5.5180
4	Stranded	5.5159	0.4929	0.1548	5.5181
6	Solid	3.6852	0.4742	0.1490	3.6883
10	Solid	2.1896	0.4694	0.1475	2.1946
300	Stranded	0.0734	0.4177	0.1312	0.1503
400	Stranded	0.0581	0.4160	0.1307	0.1430