



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

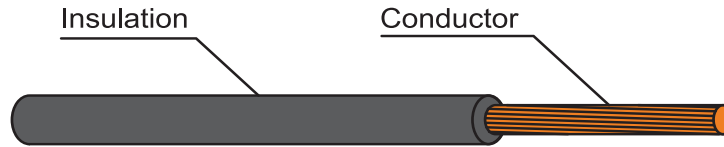
Reference standard : TIS 11 Part 3-2553, Table 1

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 current 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
6	Stranded	0.8	4.3	5.2	3.08	0.0065	49	70	100/C
10	Solid	1.0	5.3	6.4	1.83	0.0070	68	110	100/C
10	Stranded	1.0	5.6	6.7	1.83	0.0065	68	120	100/C
16	Stranded	1.0	6.4	7.8	1.15	0.0050	91	180	100/C
25	Stranded	1.2	8.1	9.7	0.727	0.0050	122	280	100/C
35	Stranded	1.2	9.0	10.9	0.524	0.0043	151	370	100/C
50	Stranded	1.4	10.6	12.8	0.387	0.0043	184	500	500/D
70	Stranded	1.4	12.1	14.6	0.268	0.0035	234	700	500/D
95	Stranded	1.6	14.1	17.1	0.193	0.0035	292	1,000	500/D
120	Stranded	1.6	15.6	18.8	0.153	0.0032	341	1,200	500/D
150	Stranded	1.8	17.3	20.9	0.124	0.0032	391	1,500	500/D
185	Stranded	2.0	19.3	23.3	0.0991	0.0032	454	1,900	500/D
240	Stranded	2.2	22.0	26.6	0.0754	0.0032	543	2,500	500/D
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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Number of core	Nominal cross sectional area (mm ²)	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
6	Stranded	3.6852	0.4788	0.1504	3.6883
10	Solid	2.1896	0.4694	0.1475	2.1946
10	Stranded	2.1896	0.4736	0.1488	2.1947
16	Stranded	1.3760	0.4575	0.1437	1.3835
25	Stranded	0.8700	0.4596	0.1444	0.8819
35	Stranded	0.6271	0.4403	0.1383	0.6422
50	Stranded	0.4633	0.4387	0.1378	0.4833
70	Stranded	0.3210	0.4298	0.1350	0.3482
95	Stranded	0.2314	0.4304	0.1352	0.2680
120	Stranded	0.1836	0.4236	0.1331	0.2268
150	Stranded	0.1491	0.4231	0.1329	0.1997
185	Stranded	0.1195	0.4232	0.1329	0.1787
240	Stranded	0.0914	0.4194	0.1318	0.1603
300	Stranded	0.0734	0.4177	0.1312	0.1503
400	Stranded	0.0581	0.4160	0.1307	0.1430