
COPPER CONDUCTOR CABLES

◆ AUTOMOBILE WIRES AND CABLES ◆

CONTENTS

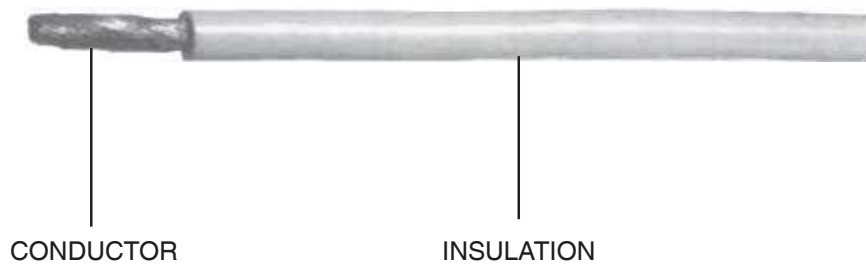
PAGE

AV

60°C LOW VOLTAGE FLEXIBLE CONDUCTOR FOR
AUTOMOBILE (TIS 118-2522 AND JIS C - 3406)

114

60°C LOW VOLTAGE FLEXIBLE CONDUCTOR FOR AUTOMOBILE

**CABLE STRUCTURE**

CONDUCTOR	:	Flexible annealed copper wires. sizes 0.5 mm ² up to 95mm ²
INSULATION	:	PVC-Any Colour
CLASSIFICATION	:	Maximum conductor temperature 60°C Low voltage circuit
TESTING VOLTAGE	:	5,000 volts
REFERENCE	:	TIS 118-2522 and JIS C 3406

REMARK : Nowadays the wires are produced according to two kinds of standard. But, such the Ministerial Regulations shall come into force upon their publication in Government Gazette, the production must be in the way of THAI INDUSTRIAL STANDARD.

(THAI INDUSTRIAL STANDARD)

Number of core	Nominal cross sectional area (mm ²)	Number and diameter of wire (No/mm)	Approx. conductor diameter (mm)	Mean value of insulation thickness (mm)	Approx overall diameter (mm)	Maximum conductor resistance at 20° C (Ω/Km)	Maximum continuous current rating in free air (Ampere)	Cable weight (approx.) (Kg/Km)	Standard length (m)
1	0.5	16/0.20	1.0	0.6	2.2	37.1	8	9	100/C
	0.5	7/0.30	1.0	0.6	2.2	37.1	8	9	100/C
	0.75	24/0.20	1.20	0.6	2.4	24.7	11	11	100/C
	0.85	12/0.30	1.20	0.6	2.4	22.0	11	12	100/C
	1.0	32/0.20	1.40	0.6	2.6	18.5	13	14	100/C
	1.25	40/0.20	1.50	0.6	2.7	14.8	15	17	100/C
	1.25	18/0.30	1.50	0.6	2.7	14.7	15	17	100/C
	1.5	30/0.25	1.60	0.6	2.8	12.7	16	19	100/C
	2	28/0.30	1.90	0.6	3.1	9.42	20	24	100/C
	2.5	50/0.25	2.10	0.7	3.5	7.60	23	30	100/C
	3	44/0.30	2.30	0.7	3.7	6.00	26	37	100/C
	4	56/0.30	2.60	0.8	4.2	4.71	31	47	100/C
	5	70/0.30	3.0	0.8	4.6	3.77	36	57	100/C
	6	84/0.30	3.20	0.9	5.0	3.14	40	69	100/C
	8	63/0.40	3.7	0.9	5.5	2.31	48	88	100/C
	10	80/0.40	4.2	1.1	6.4	1.82	58	114	100/C
	16	126/0.40	5.8	1.1	8.0	1.16	75	173	100/C
	25	84/0.60	7.0	1.4	9.8	0.770	98	261	500/D
	35	98/0.67	8.5	1.4	11.3	0.524	124	366	500/D
50	144/0.67	10.9	1.6	14.1	0.357	163	537	500/D	
70	192/0.67	12.60	2.0	16.6	0.268	200	727	500/D	
95	266/0.67	14.1	2.0	18.1	0.193	248	971	500/D	

(JAPANESE INDUSTRIAL STANDARD)

Number of core	Nominal cross sectional area	Number and diameter of wire	Average Stranded of conductor diameter	Mean value of insulation thickness	Approx overall diameter	Maximum conductor resistance at 20° C	Maximum continuous current rating in free air	Cable weight (approx.)	Standard length
	(mm ²)								
1	0.5 f	20/0.18	0.95	0.6	2.1	36.7	8	8.5	100/C
	0.5	7/0.32	1.00	0.6	2.1	32.7	9	9	100/C
	0.75 f	30/0.18	1.15	0.6	2.3	24.4	11	12	100/C
	0.85	11/0.32	1.25	0.6	2.4	20.8	12	13	100/C
	1.25 f	50/0.18	1.50	0.6	2.7	14.7	15	17	100/C
	1.25	16/0.32	1.50	0.6	2.7	14.3	15	17	100/C
	2	26/0.32	1.90	0.6	3.1	8.81	20	26	100/C
	3	41/0.32	2.40	0.7	3.8	5.59	27	40	100/C
	5	65/0.32	3.00	0.8	4.5	3.52	37	60	100/C
	8	50/0.45	3.70	0.9	5.4	2.32	48	90	100/C
	15	84/0.45	5.10	1.1	7.2	1.38	67	160	100/C
	20	41/0.80	6.10	1.1	8.2	0.887	88	220	100/C
	30	70/0.80	8.00	1.4	10.5	0.520	122	380	500/D
	40	85/0.80	8.80	1.4	11.5	0.428	139	450	500/D
	50	108/0.80	10.00	1.6	13.0	0.337	177	570	500/D
60	127/0.80	10.60	1.6	13.5	0.287	199	670	500/D	

f : More flexible.
c : Packing in coil.