

Poly vinyl chloride insulated wires for electorical apparatus

- Heat resistance ★
- Oil resistance ★★
- Noise resistance ★
- Flame resistance ★★
- Flexibility ★★
- non-migratory ★
- Transport property ★

※The characteristic is an aim.



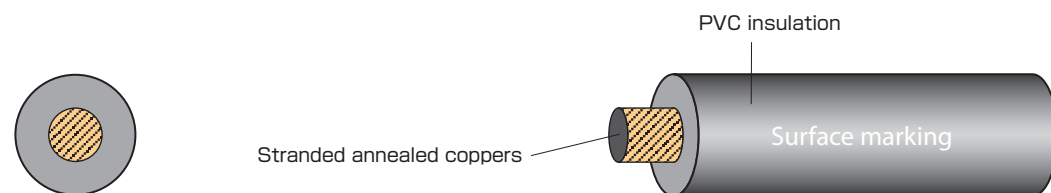
Application

- Wiring of electrical machinery and apparatus not exceeding 600V.
- Rated voltage:600V. Temp:60°C.

Feature

- Flexible annealed copper stranded conductor.
- Flexibility, 8mm²-100mm² is, use the 0.32mm wire instead of 0.45mm conductor wire.
- Reference to JIS C 3316.
- 0.75mm²~100mm² wires conform to Electrical Appliance and Material Safety Law. (0.5mm² wires out of Electrical Appliance and Material Safety Law)

Construction figure



Surface marking

(1)0.75~100mm² wires



(2)0.5, 125~325mm² wires



※R15 indicates "Compliant with RoHS Directive 2011/65/EU and Directive (EU) 2015/863 (10 substances)".
 ※Only surface marking displays LFV.

Identification

- 0.5mm² wire is black, white, red, green, yellow, blue.
- 0.75mm²~100mm² wire is black, white, red, green, yellow, blue, and Y/G.
- 80SQ is black or green.
- 150mm²~250mm² wire is black, white, red, green, yellow, and blue.
- 325mm² wire is black, white, red, yellow, and blue.

※Y/G indicates green core with yellow stripe (30~50%)

Certification	Electrical Appliance and Material Safety
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment
Official symbol	KIT
Voltage rating	600V
Temperature rating	60°C
Conductor	JIS C 3102
Flame rating	JIS C 3005-4.26.2-b)

Construction table

No. of cores	Conductor			Flame resistant polyethelene insulation		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG) (mm ²)	Construction (Line/mm)	Outside diameter (mm)	Overall diameter approx.(inch)	Overall diameter approx.(mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩ.km20°C)	Electrical strength (V/1min.)	
1C	0.5	20/0.18 (20/7.1mil)	0.9 (35mil)	0.098	2.5	7 (11)	less than 36.7	more than 50	2000	9.6
1C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.106	2.7	9 (14)	less than 24.4	more than 50	2000	12
1C	1.25	50/0.18 (50/7.1mil)	1.5 (59mil)	0.122	3.1	13 (20)	less than 14.7	more than 50	2000	19
1C	2	37/0.26 (37/10.2mil)	1.8 (71mil)	0.134	3.4	18 (27)	less than 9.50	more than 50	2000	27
1C	3.5	45/0.32 (45/12.6mil)	2.5 (98mil)	0.161	4.1	30 (45)	less than 5.09	more than 50	2000	37
1C	5.5	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	47 (70)	less than 3.27	more than 50	2000	49
1C	8	98/0.32 (98/12.6mil)	3.7 (146mil)	0.240	6.1	67 (100)	less than 2.32	more than 50	2000	61
1C	14	172/0.32 (172/12.6mil)	4.9 (193mil)	0.303	7.7	111 (165)	less than 1.32	more than 40	2000	88
1C	22	7/39/0.32 (7/39/12.6mil)	6.7 (264mil)	0.390	9.9	185 (275)	less than 0.844	more than 40	2000	115
1C	38	7/67/0.32 (7/67/12.6mil)	8.8 (346mil)	0.488	12.4	302 (450)	less than 0.496	more than 40	2500	162
1C	60	19/39/0.32 (19/39/12.6mil)	11.2 (441mil)	0.583	14.8	457 (680)	less than 0.311	more than 30	2500	217
1C	80	19/52/0.32 (19/52/12.6mil)	13.1 (516mil)	0.673	17.1	605 (900)	less than 0.230	more than 30	2500	270
1C	100	19/67/0.32 (19/67/12.6mil)	14.7 (579mil)	0.736	18.7	759 (1130)	less than 0.183	more than 30	2500	298
1C	150	27/34/0.45 (27/34/17.7mil)	18.0 (709mil)	0.882	22.4	1068 (1590)	less than 0.129	more than 20	3000	395
1C	200	37/34/0.45 (37/34/17.7mil)	20.4 (803mil)	0.992	25.2	1445 (2150)	less than 0.0939	more than 20	3000	469
1C	250	37/42/0.45 (37/42/17.7mil)	22.7 (894mil)	1.083	27.5	1761 (2620)	less than 0.0760	more than 20	3000	556
1C	325	37/55/0.45 (37/55/17.7mil)	25.9 (1020mil)	1.224	31.1	2291 (3410)	less than 0.0581	more than 20	3000	650

Allowable ampacity

·The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30°C.

·Please multiply the following correction coefficient by the ambient temperature and the cable-laying conditions, etc.

●Adjustment factors(at ambient temperature)

Ambient temperature(°C)	30	35	40	45	50	55	60
Adjustment factors	1.00	0.91	0.82	0.71	0.58	0.41	—

●Adjustment factors(for multiple-line laying)

No. of conductors	2~3	4	5~6	7~15	16~40	41~60	61~
Adjustment factors	0.70	0.63	0.56	0.49	0.43	0.39	0.34

Standard sales length

Size (mm ²)	Standard length (m)				
	100	200	300	600	1000
0.5~2		○			
3.5	○				
5.5~14	○				○
22~38	○			○	
60~150			○		
200~325		○			

200~325mm² : Make-to-order product.