

# HKIV LF

## Heat-resistant polyvinyl chloride insulated wires for electorical apparatus

- Heat resistance ★★
  - Oil resistance ★★★★★
  - Noise resistance ★
  - Flame resistance ★★★★★
  - Flexibility ★★
  - non-migratory ★
  - Transport property ★
- ※The characteristic is an aim.

Meeting standard



Certification	Electrical Appliance and Material Safety
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment
Official symbol	HKIV
Voltage rating	600V
Temperature rating	75°C
Conductor	JIS C 3102
Flame rating	JIS C 3005-4.26.2-b)

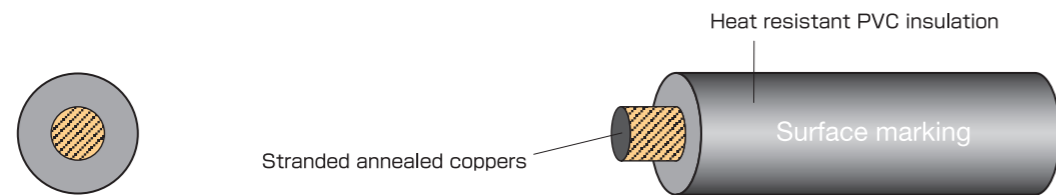
### Application

- Wiring of electrical machinery and apparatus not exceeding 600V.
- Applications of high temperature location.
- Rated voltage:600V. Temp:75°C.

### Feature

- Flexible annealed copper stranded conductor.
- Use a heat-resistant PVC to insulation compared to KIV 1.2 times the allowable current.
- Heat resistance75°C (ability 90 °C).
- Reference to JIS C 3316.
- 0.75mm<sup>2</sup>~100mm<sup>2</sup> wires conform to Electrical Appliance and Material Safety Law. (0.5mm<sup>2</sup> wires out of Electrical Appliance and Material Safety Law)

### Construction figure



### Surface marking

(1)0.75~100mm<sup>2</sup> wires



(2)0.5, 150~200mm<sup>2</sup> wires



※Only surface marking displays LFV.

### Identification

●Black, White, Red, Green, Yellow, Brown, Blue, Gray, Orange.

### Construction table

No. of cores	Conductor			Heat resistant PVC insulation		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG) (mm <sup>2</sup> )	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (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 (10)	less than 36.7	more than 600	2000	11
1C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.106	2.7	9 (13)	less than 24.4	more than 500	2000	14
1C	0.9	35/0.18 (35/7.1mil)	1.2 (47mil)	0.110	2.8	12 (18)	less than 20.9	more than 500	2000	20
1C	1.25	50/0.18 (50/7.1mil)	1.5 (59mil)	0.122	3.1	13 (19)	less than 14.7	more than 400	2000	23
1C	2.0	37/0.26 (37/10.2mil)	1.8 (71mil)	0.134	3.4	17 (26)	less than 9.50	more than 400	2000	33
1C	3.5	45/0.32 (45/12.6mil)	2.5 (98mil)	0.161	4.1	30 (44)	less than 5.09	more than 300	2000	45
1C	5.5	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	47 (70)	less than 3.27	more than 300	2000	60
1C	8.0	50/0.45 (50/17.7mil)	3.7 (146mil)	0.240	6.1	64 (95)	less than 2.32	more than 300	2000	74
1C	14	88/0.45 (88/17.7mil)	4.9 (193mil)	0.303	7.7	111 (165)	less than 1.32	more than 300	2500	107
1C	22	7/20/0.45 (7/20/17.7mil)	7.0 (276mil)	0.402	10.2	181 (270)	less than 0.844	more than 200	2500	140
1C	30	7/27/0.45 (7/27/17.7mil)	8.1 (319mil)	0.445	11.3	239 (355)	less than 0.625	more than 200	2500	169
1C	38	7/34/0.45 (7/34/17.7mil)	9.1 (358mil)	0.500	12.7	306 (455)	less than 0.496	more than 200	2500	197
1C	50	19/16/0.45 (19/16/17.7mil)	10.4 (409mil)	0.551	14.0	370 (550)	less than 0.389	more than 200	2500	232
1C	60	19/20/0.45 (19/20/17.7mil)	11.6 (457mil)	0.598	15.2	454 (675)	less than 0.311	more than 200	2500	264
1C	80	19/27/0.45 (19/27/17.7mil)	13.5 (531mil)	0.689	17.5	608 (905)	less than 0.230	more than 200	2500	313
1C	100	19/34/0.45 (19/34/17.7mil)	15.2 (598mil)	0.756	19.2	753 (1120)	less than 0.189	more than 200	3000	363
1C	150	27/34/0.45 (27/34/17.7mil)	18.7 (736mil)	0.909	23.1	1062 (1580)	less than 0.129	more than 200	3000	482
1C	200	37/34/0.45 (37/34/17.7mil)	21.2 (835mil)	1.024	26.0	1431 (2130)	less than 0.0939	more than 100	3000	572

### 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	40	50	60	70	80	90	100
Adjustment factors	1.00	0.88	0.75	0.58	0.33	—	—	—

●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

Please contact us (sales rep).