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.

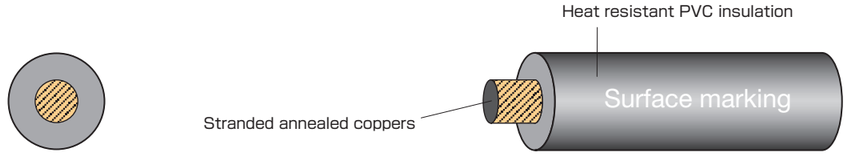
> Application

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

> Feature

- Flexible annealed copper stranded conductor.
- Use a heat-resistant PVC to insulation compared to KIV 1.2 times the allowable current.
- Heat resistance75℃ (ability 90 ℃).
- 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

HKIV <PS>E ** タイネツ TAIYO CABLETEC 製造年 LFV R15

(2)0.5, 150～200mm² wires

HKIV TAIYO CABLETEC ** タイネツ 製造年 LFV R15

※Only surface marking displays LFV.

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

> Identification

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

> > > Meeting standard

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

> Construction table

No. of cores	Conductor			Heat resistant PVC insulation		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG) (mm²)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)		Conductor resistance (Ω/km20℃)	Insulation resistance (MΩkm20℃)	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 600	2000	11
1C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.106	2.7	9 (14)	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	10 (15)	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 (20)	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	19 (28)	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	31 (46)	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	98/0.32 (98/12.6mil)	3.7 (146mil)	0.240	6.1	64 (95)	less than 2.32	more than 300	2000	74
1C	14	172/0.32 (172/12.6mil)	4.9 (193mil)	0.303	7.7	108 (160)	less than 1.32	more than 300	2500	107
1C	22	7/39/0.32 (7/39/12.6mil)	7.0 (276mil)	0.402	10.2	178 (265)	less than 0.844	more than 200	2500	140
1C	38	7/67/0.32 (7/67/12.6mil)	9.1 (358mil)	0.500	12.7	296 (440)	less than 0.496	more than 200	3000	197
1C	60	19/39/0.32 (19/39/12.6mil)	11.6 (457mil)	0.598	15.2	447 (665)	less than 0.311	more than 150	3000	264
1C	80	19/52/0.32 (19/52/12.6mil)	13.5 (531mil)	0.689	17.5	591 (880)	less than 0.230	more than 150	3000	313
1C	100	19/67/0.32 (19/67/12.6mil)	15.2 (598mil)	0.756	19.2	746 (1110)	less than 0.189	more than 150	3000	363
1C	150	27/34/0.45 (27/34/17.7mil)	18.7 (736mil)	0.909	23.1	1058 (1575)	less than 0.129	more than 150	3500	482
1C	200	37/34/0.45 (37/34/17.7mil)	21.2 (835mil)	1.024	26.0	1428 (2125)	less than 0.0939	more than 100	3500	572

> Allowable ampacity

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

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

●Adjustment factors(at ambient temperature)

Ambient temperature(℃)	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 which sizes are available.

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