

# HIV LF

## 600V Grade heat-resistant polyvinyl chloride insulated wires

- 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	HIV
Voltage rating	600V
Temperature rating	75°C
Conductor	JIS C 3102
Flame rating	JIS C 3005-4.26.2-b)

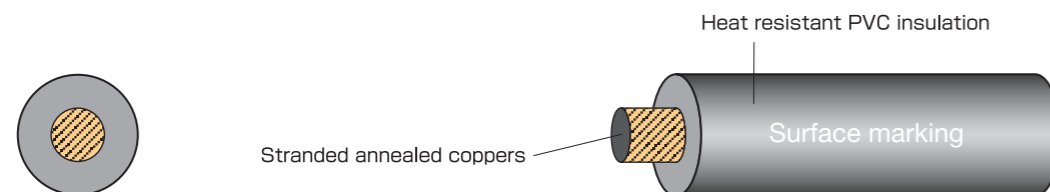
### Application

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

### Feature

- Use a heat-resistant PVC to insulation compared to IV 1.2 times the allowable current.
- Heat resistance75°C (ability 90 °C).
- Reference to JIS C 3317.
- 1.25mm<sup>2</sup>~100mm<sup>2</sup> wires conform to Electrical Appliance and Material Safety Law.

### Construction figure



### Surface marking

(1) 1.25~100mm<sup>2</sup> wires



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



※Only surface marking displays LFV.

### Identification

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

### 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	1.25	7/0.45 (7/17.7mil)	1.35 (53mil)	0.118	3.0	11 (17)	less than 16.5	more than 50	1500	23
1C	2.0	7/0.6 (7/23.6mil)	1.8 (71mil)	0.134	3.4	18 (27)	less than 9.24	more than 50	1500	33
1C	3.5	7/0.8 (7/31.5mil)	2.4 (94mil)	0.157	4.0	30 (45)	less than 5.20	more than 50	1500	45
1C	5.5	7/1.0 (7/39.4mil)	3.0 (118mil)	0.197	5.0	44 (65)	less than 3.33	more than 50	1500	60
1C	8.0	7/1.2 (7/47.2mil)	3.6 (142mil)	0.236	6.0	64 (95)	less than 2.31	more than 50	1500	74
1C	14	7/1.6 (7/63mil)	4.8 (189mil)	0.299	7.6	111 (165)	less than 1.30	more than 40	2000	107
1C	22	7/2.0 (7/78.7mil)	6.0 (236mil)	0.362	9.2	171 (255)	less than 0.824	more than 40	2000	140
1C	38	7/2.6 (7/102.4mil)	7.8 (307mil)	0.453	11.5	279 (415)	less than 0.487	more than 40	2500	197
1C	60	19/2.0 (19/78.7mil)	10.0 (394mil)	0.551	14.0	427 (635)	less than 0.303	more than 30	2500	264
1C	100	19/2.6 (19/102.4mil)	13.0 (512mil)	0.669	17.0	706 (1050)	less than 0.180	more than 30	2500	363
1C	150	37/2.3 (37/90.6mil)	16.1 (634mil)	0.827	21.0	1062 (1580)	less than 0.118	more than 20	3000	482
1C	200	37/2.6 (37/102.4mil)	18.2 (717mil)	0.906	23.0	1351 (2010)	less than 0.0922	more than 20	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).