

# C3/RV-90 LF

## Equipment in the wiring for the heat-resistant vinyl wire

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

Meeting standard



Certification	CCC	CE marking		Electrical Appliance and Material Safety Law
		0.5mm <sup>2</sup> ~1.0mm <sup>2</sup>	1.5mm <sup>2</sup> ~2.5mm <sup>2</sup>	
Applicable standard	GB/T5023.3	EN50525-2-31	EN50525-2-31	J60227-03
Official symbol	RV-90(60227 IEC 08)	Equivalent of H05V-K	Equivalent of H07V-K	60227 IEC 08
Voltage rating	300/500V	300/500V	450/750V	300/500V
Temperature rating	90°C	70°C	70°C	90°C
Conductor	GB/T 3956 Class 5	EN 60228	EN 60228	IEC 60228 Class 5
Flame rating	GB/T 18380.12	EN 50265-2-1	EN 50265-2-1	IEC 60332-1

### Application

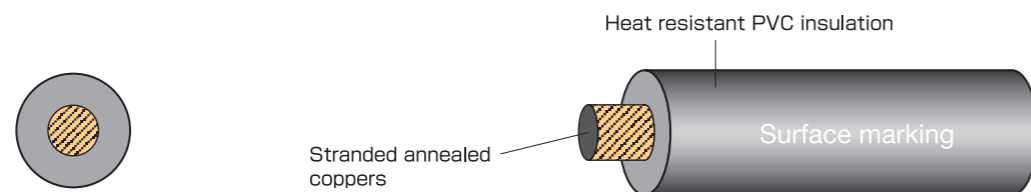
- Equipment in the wiring for the heat-resistant vinyl wire.

### Feature

- Product that corresponds to CCC attestation.
- It passes GB standard (GB/T18380) vertical test※.
- CE marking.
- It suits Electrical Appliance and Material Safety Law.

※ Refer to JIS C3665 (IEC60332-1) for the test method.

### Construction figure



### Surface marking

·Core color: black, white, red, blue and Y/G

(1) 0.5~1.0mm<sup>2</sup> wires

CCC A018704 太阳电线 (东莞) 有限公司 60227 IEC 08 (RV-90) 300/500V 90°C ○○SQ GB/T5023.3-2008/IEC 60227-3 : 1997<PS>E TY TAIYO CABLETEC CE 300/500V LF R15

(2) 1.5~2.5mm<sup>2</sup> wires

CCC A018704 太阳电线 (东莞) 有限公司 60227 IEC 08 (RV-90) 300/500V 90°C ○○SQ GB/T5023.3-2008/IEC 60227-3 : 1997<PS>E TY TAIYO CABLETEC CE 450/750V LF R15

·Core color: Yellow(no CE marking)

CCC A018704 太阳电线 (东莞) 有限公司 60227 IEC 08 (RV-90) 300/500V 90°C ○○SQ GB/T5023.3-2008/IEC 60227-3 : 1997<PS>E TY TAIYO CABLETEC LF R15

### Identification

·Black, white, red, yellow, blue and Y/G.

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

### 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 (MΩkm20°C)	Electrical strength (V/1min.)	
1C	0.5	20/0.18 (20/7.1mil)	0.9 (35mil)	0.087	2.2	7(10)	less than 39.0	more than 0.013	2000	11
1C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.094	2.4	9(13)	less than 26.0	more than 0.012	2000	15
1C	1.0	40/0.18 (40/7.1mil)	1.3 (51mil)	0.102	2.6	11(16)	less than 19.5	more than 0.010	2000	18
1C	1.5	30/0.25 (30/9.8mil)	1.6 (63mil)	0.122	3.1	15(23)	less than 13.3	more than 0.010	2500	24
1C	2.5	50/0.25 (50/9.8mil)	2.04 (80mil)	0.147	3.74	23(34)	less than 7.98	more than 0.0095	2500	33

### Allowable ampacity

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

·Allowable ampacity is calculated based on JCS0168.

·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	0.91	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

Order production  
(Please contact us about production lot.)