

# SL-TVV(STD5)LF SL-TVV(STD4)LF

For electrical equipment power supply, electronic equipment cable

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



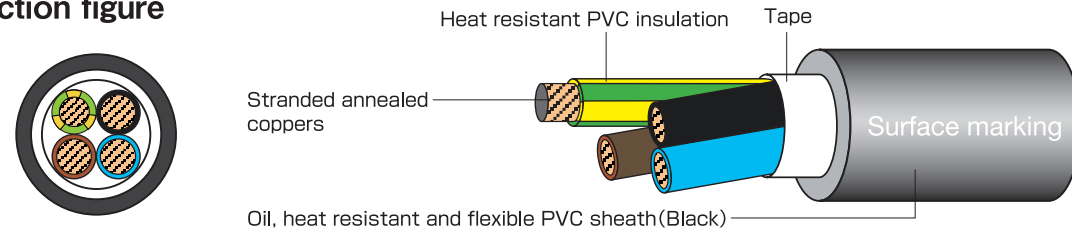
## Application

- Electrical equipment power supply, electronic equipment cable.

## Feature

- Product that corresponds to CCC attestation. (TVV)
- It passes GB standard (GB/T18380) vertical test※.
- CE marking.
- It suits Electrical Appliance and Material Safety Law. (2~7 cores)
- Product that corresponds to UL, cUL attestation. (for AWM2501 wiring in equipment)
- Heat resistant PVC material is used to insulation.
- Multi making cable.
- Oil, heat resistant and flexible PVC material is used to sheath.

## Construction figure



## Surface marking

<Example>

① SL-TVV(STD5)LF 0.75~1.0SQ(2~7 cores)

CCC A035686 太阳电线(苏州)有限公司 60227 IEC 71c(TVV) 線心数×○mm<sup>2</sup> 300/500V GB/T5023.6 E250083 AWM 2501 105°C 600V VW-1 AWM IIA 105°C 600V FT1 TAIYO CE 300/500V <PS>E TY タイネツ LF R15

② SL-TVV(STD5)LF 1.5~25SQ(2~7 cores)

CCC A035686 太阳电线(苏州)有限公司 60227 IEC 71c(TVV) 線心数×○mm<sup>2</sup> 450/750V GB/T5023.6 E250083 AWM 2501 105°C 600V VW-1 AWM IIA 105°C 600V FT1 TAIYO CE 450/750V <PS>E TY タイネツ LF R15

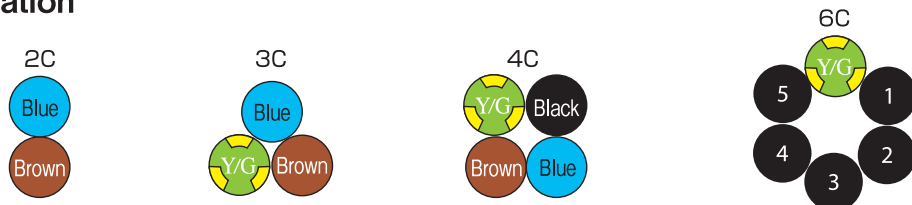
③ SL-TVV(STD4)LF 0.75~1.0SQ(8 cores or more)

CCC A035686 太阳电线(苏州)有限公司 60227 IEC 71c(TVV) 線心数×○mm<sup>2</sup> 300/500V GB/T5023.6 E250083 AWM 2501 105°C 600V VW-1 AWM IIA 105°C 600V FT1 TAIYO CE 300/500V LF R15

④ SL-TVV(STD4)LF 1.5~25SQ(8 cores or more)

CCC A035686 太阳电线(苏州)有限公司 60227 IEC 71c(TVV) 線心数×○mm<sup>2</sup> 450/750V GB/T5023.6 E250083 AWM 2501 105°C 600V VW-1 AWM IIA 105°C 600V FT1 TAIYO CE 450/750V LF R15

## Identification



※Figures in ○ indicate white numbering on black insulator.  
※Y/G indicates green core with yellow stripe(30~50%).

Certification	IEC	CCC	Electrical Appliance and Material Safety Law	UL	CSA
Applicable standard	IEC60227-6	GB/T5023.6	Law Departmental order to determine a technical standard of the electrical equipment	UL758	CSA C22.2 No.210
Official symbol	60227 IEC 71c	60227 IEC 71c (TVV)	Heat-resistant flexible cable	AWM STYLE 2501	AWM II A
Voltage rating	300/500V	300/500V	600V	600V	600V
Temperature rating	70°C	70°C	75°C	105°C	105°C
Conductor	IEC60228 Class5	GB/T3956 Class5	JIS C 3102	UL758	CSA C22.2 No.210
Flame rating	IEC60332-1	GB/T18380	JIS C 3005-4.26.2-b	VW-1	FT1

2~7 core types are (STD5) and 8 or more types are (STD4) because PSE is applied to only 2 to 7 core types of these cables.

## Construction table

① SL-TVV(STD5)LF, SL-TVV(STD4)LF 0.75~1.0SQ

No. of cores	Conductor				Foamed polyolefin insulation		Oil, heat - resistant flexible - PVC sheath		Electrical Characteristics				Approx. weight (kg/km)	70°C Allowable ampacity (A)	105°C Allowable ampacity (A)
	Size (mm <sup>2</sup> )	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (mm)	Overall diameter approx. (mm)	Conductor resistance (Ω/km 20°C)	Electrical strength (V/5min)	Insulation resistance (MQ·km 20°C)	Insulation resistance (MQ·km 70°C)			
2C							0.354	9.0					60(90)	14	18
3C							0.370	9.4					71(105)	11	18
4C							0.398	10.1					84(125)	10	15
6C	0.75	19AWG	30/0.18 (30/7.1mil)	1.14 (45mil)	0.108	2.74	0.476	12.1	less than 26.0	2000	more than 50	more than 500.011	121(180)	9.5	13
10C							0.626	15.9					202(300)	8.2	11
12C							0.701	17.8					249(370)	7.8	10
20C							0.756	19.2					319(475)	6.3	8.4
30C							0.949	24.1					487(725)	5.6	7.4
2C							0.366	9.3					67(100)	16	21
3C							0.386	9.8					77(115)	14	22
4C							0.421	10.7					97(145)	12	18
6C	1.0	18AWG	40/0.18 (40/7.1mil)	1.31 (52mil)	0.115	2.91	0.496	12.6	less than 19.5	2000	more than 50	more than 0.010	138(205)	11	15
10C							0.654	16.6					228(340)	9.7	13
12C							0.744	18.9					289(430)	9.2	12
20C							0.791	20.1					366(545)	7.5	9.9
30C							0.996	25.3					564(840)	6.6	8.7

Certification	IEC	CCC	Electrical Appliance and Material Safety Law	UL	CSA
Applicable standard	IEC60227-6	GB/T5023.6	Law Departmental order to determine a technical standard of the electrical equipment	UL758	CSA C22.2 No.210
Official symbol	60227 IEC 71c	60227 IEC 71c (TVV)	Heat-resistant cable cord	AWM STYLE 2501	AWM II A
Voltage rating	450/750V	450/750V	600V	600V	600V
Temperature rating	70°C	70°C	75°C	105°C	105°C
Conductor	IEC60228 Class5	GB/T3956 Class5	JIS C 3102	UL758	CSA C22.2 No.210
Flame rating	IEC60332-1	GB/T18380	JIS C 3005-4.26.2-b	VW-1	FT1

2~7 core types are (STD5) and 8 or more types are (STD4) because PSE is applied to only 2 to 7 core types of these cables.

② SL-TVV(STD5)LF, SL-TVV(STD4)LF 1.5~25SQ

No. of cores	Conductor				Heat-resistant PVC insulation		Oil, heat resistant flexible sheath		Electrical Characteristics				Approx. weight (kg/km)	70°C Allowable ampacity (A)	105°C Allowable ampacity (A)
	Size (mm <sup>2</sup> )	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (mm)	Overall diameter approx. (mm)	Conductor resistance (Ω/km 20°C)	Electrical strength (V/5min)	Insulation resistance (MQ·km 20°C)	Insulation resistance (MQ·km 70°C)			
2C							0.390	9.9					749(1115)	20	27
3C							0.417	10.6					97(145)	21	27
4C							0.449	11.4					118(175)	18	23
6C	1.5	16AWG	60/0.18 (60/7.1mil)	1.61 (63mil)	0.126	3.21	0.531	13.5	less than 13.3	2500	more than 50	more than 0.010	168(250)	15	19
10C							0.713	18.1					286(425)	12	16
12C							0.799	20.3					353(525)	12	15
20C							0.862	21.9					467(695)	9.6	12
30C							1.091	27.7					728(1080)	8.4	10
2C							0.437	11.1					101(150)	28	36
3C							0.461	11.7					128(190)	28	37
4C							0.508	12.9					158(235)	24	31
6C	2.5	14AWG	50/0.25 (50/9.8mil)	2.04 (80mil)	0.146	3.72	0.610	15.5	less than 7.98	2500	more than 50	more than 0.009	232(345)	20	26
10C							0.815	20.7					397(590)	17	22
12C							0.913	23.2					487(725)	16	21
20C							0.984	25.0					655(975)	12	16
3C	4	12AWG	82/0.25 (82/9.8mil)	2.61 (103mil)	0.181	4.61	0.551	14.0	less than 4.95	2500	more than 40	more than 0.007	188(280)	38	50
4C							0.598	15.2					232(345)	33	42
3C	6	10AWG	7/17/0.25 (7/17/9.8mil)	3.46 (136mil)	0.231	5.86	0.665	16.9	less than 3.30	2500	more than 40	more than 0.006	272(405)	50	65
4C							0.732	18.6					346(515)	43	56
3C	10	8AWG	7/29/0.25 (7/29/9.8mil)	4.52 (178mil)	0.288	7.32	0.815	20.7	less than 1.91	2500	more than 40	more than 0.0056	427(635)	70	92
4C							0.898	22.8					541(805)	60	78
3C	16	6AWG	7/48/0.25 (7/48/9.8mil)	5.82 (229mil)	0.355	9.02	0.972	24.7	less than 1.21	2500	more than 40	more than 0.0046	642(955)	94	122
4C							1.083	27.5					827(1230)	80	103
3C	25	4AWG	7/75/0.25 (7/75/9.8mil)	7.28 (287mil)	0.413	10.48	1.114	28.3	less than 0.780	2500	more than 30	more than 0.0044	901(1340)	123	160
4C							1.236	31.4					1169(1740)	104	135

○ : Indicates make-to-order product.

## 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.  
Allowable ampacity is calculated excluding grounding conductor.

Please multiply the following correction coefficient by the ambient temperature.

● Adjustment factors (at ambient temperature)

Ambient temperature (°C)	30	40	50	60	70	80	90	100
Adjustment factors	1.00	0.87	0.71	0.50	—	—	—	—

## Standard sales length

100m  
(Sale by cutting short length is available)