# EXT-01G-SB/2501 600V L

# EXT-01G-SB/2501 600V LF

## Electronic equipment robot cable

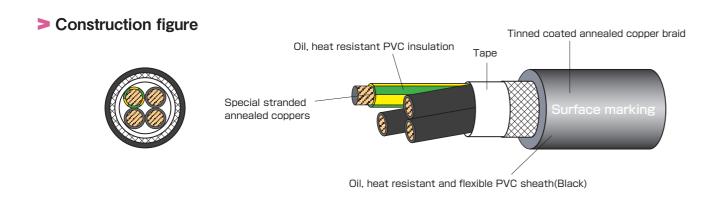
Heat resistance	****
Oil resistance	****
Noise resistance	***
Flame resistance	****
Torsion resistance	
Flexibility resistance	
Cable carrier	****
*The characteristic is	an aim.

## Application

- Appropriate for cable chain wiring for high-speed moving.
- Cable chain test 20 million times or more.
- Shielded Robot cable with UL and cUL at 600V 105℃. (Category: AVLV2, AVLV8)

## > Feature

- Extremely fine conductor use.
- Oil and heat resistant PVC used for insulation.
- Oil and heat resistant PVC used for sheath.
- Flame resisting : UL VW-1, cUL FT1.



## > Surface marking

## TAIYO EXT-01G AWG LF R15 E67647 RW S AWM 2501 VW-1 IIA/B 105°C 600V FT1

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

Certification	UL AWM	cUL AWM
Applicable standard	UL 758	CSA C22.2 No.210
Official symbol	UL STYLE 2501	CSA AWM II A/B
Voltage rating	600V	600V
Temperature rating	105℃	105℃
Conductor	UL 758	CSA C22.2 No.210
Flame rating	VW-1	FT1





## Identification

2C 3C 4C









Figures in  $\bigcirc$  indicate white numbering on black insulator.

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





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# Construction table

	Conductor			Oil, heat resistant PVC insulation		Oil, heat resistant flexible PVC sheath		Approx. weight	Electrical Characteristics			Allowable
No. of cores	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (inch)	Overall diameter approx.(mm)	(lbs/1000ft) (kg/km)	Conductor resistance (Ω/km20°C)		Electrical strength (V/1min.)	ampacity (A)
2C						0.390	9.9	84(125)				14
3C	18	168/0.08	1.31	0.115	2.91	0.409	10.4	97(145)	loca than 01 0	more than 50	2000	14
4C	$(0.823mm^{2})$	(168/3.2mil)	(52mil)	0.113	2.91	0.441	11.2	118(175)	1622 (11411 71.0	more than 50	2000	12
6C+1C						0.563	14.3	192(285)				10
2C						0.417	10.6	97(145)				18
3C	16	266/0.08	1.64	0.128	3.24	0.441	11.2	121(180)	less than 13.7	more than 50	2000	18
4C	(1.30 mm)	(266/3.2mil)	(65mil)	0.120	0.24	0.472	12.0	141(210)	1033 (1011 10.1	more triair 50	2000	16
6C+1C						0.598	15.2	232(345)				12
2C						0.453	11.5	124(185)				24
3C	14	420/0.08	2.07	0.144	3.67	0.476	12.1	148(220)	less than 8.62	more than 50	2000	24
4C	$(2.08mm^{2})$	(420/3.2mil)	(81mil)	0.144	0.07	0.516	13.1	175(260)	1000 (1011 0.02	more triair 50	2000	21
7C						0.646	16.4	282(420)				16

Ground core

	Conductor		Oil, heat resistant PVC insulation		
Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	
14 (2.08mm²)	420/0.08 (420/3.2mil)	2.07 (81mil)	0.144	3.67	

#Core number mark "+1C" has the [Y/G] ground core of 14AWG size. #3C or 4C and 14AWG or more size has the [Y/G] ground core of an equal size.

\*The test of 2000V/5 minute besides the withstand voltage test on above mentioned UL standard and the CSA standard is applied.

\*Please contact us which sizes are available.





## 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 adjustment factors by the ambient temperature.

### •Adjustment factors(at ambient temperature)

Ambient temperature (°C)	30	40	50	60	70	80	90	100
Adjustment factors	1.00	0.93	0.86	0.77	0.68	0.58	0.45	0.26

### Movement characteristic

*)1	Bend	U-shaped	90°	Tw	/ist	*)2	Examination's time:	
Bending	Denu	turn-back	bending	Straight	Bending	Move bending	S= More than 20 million times A= More than 10 million times	C= More than 3 million times D= More than 1 million times
Α	Α	S	А	Α	Α	С	B= More than 5 million times	E= More than 0.5 million times

- \*) 1 It is C when overall diameter of the cable is 20mm or more, and D when overall diameter of the cable is 30mm or more.
- \*)2 When overall diameter of the cable is 20mm or less.
- \*The longevity of the cable inside a cable bearing is dependent on the travel distance. Please consult our Sales Department when wiring a travel distance of 5m or greater.

## Oil resistance

Insulating oil	Lubricating oil	Cutting oil I	Cutting oil II	Hydraulic oil	Grease
Α	Α	В	В	В	В

\*A~C in the table indicate the characteristics below.

A:There is no problem on practical use at all.

B:Deterioration slightly no problem almost on practical use.

C:It is sometimes deteriorated to some degree, and not possible to use it.

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