### >> Meeting standard

## EXT-01G-SB/2517 300V LF

## Electronic equipment robot cable

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The characteristic is an	aim

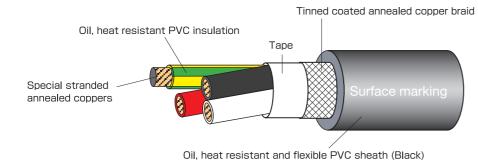
### Application

- Appropriate for cable bare wiring for high-speed moving.
- Cable Bear test 20 million times or more.
- Shielded Robot cable with UL and cUL at 300V 105°C. (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.

### > Construction figure



### > Surface marking

TAIYO EXT-01G AWG LF R15 E67647 AWM 2517 VW-1 IIA/B 105°C 300V FT1

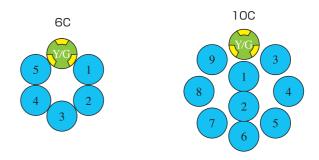




### Identification

Black
Black
White
Black
White
Black
White

### ·6 cores or more is identified by numbering



Figures in  $\bigcirc$  indicate black numbering on light blue insulator. \*\*Y/G indicates green core with yellow stripe (30~50%).



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### Construction table

		Conductor		Oil,heat r PVC ins			resistant VC 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)		Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	ampacity (A)
2C						0.252	6.4	40(60)				10
3C						0.264	6.7	44(65)				10
4C						0.287	7.3	50(75)				8.9
6C						0.331	8.4	71(105)				7.4
8C	20	112/0.08	1.07	0.078	1.97	0.382	9.7	94(140)	Jose than 24 G	mara than 10	2000	6.7
10C	(0.518mm <sup>2</sup> )	(112/3.2mil)	(42mil)	0.076	1.97	0.413	10.5	111(165)	1622 (Hall 94.0	more than 10	2000	6.1
12C						0.425	10.8	121(180)				5.6
16C						0.469	11.9	151(225)				5.1
20C						0.520	13.2	188(280)				4.7
30C						0.677	17.2	299(445)				4.2
2C						0.272	6.9	47(70)				13
3C						0.287	7.3	57(85)				13
4C						0.307	7.8	67(100)				11
6C						0.358	9.1	87(130)				9.7
8C	18	168/0.08	1.31	0.087	2.21	0.417	10.6	118(175)	Loce than 21 Q	more than 10	2000	8.8
10C	(0.823mm)	(168/3.2mil)		0.007	2.21	0.449	11.4	138(205)	1622 (1911 71.0	IIIOIE (IIdii 10	2000	8.0
12C		(	, ,			0.465	11.8	155(230)				7.4
16C						0.516	13.1	202(300)				6.6
20C						0.567	14.4	242(360)				6.2
30C						0.744	18.9	383(570)				5.5
2C						0.299	7.6	60(90)				16
3C						0.315	8.0	71(105)				16
4C	16	266/0.08	1.64	0.100	2,54	0.339	8.6	87(130)	loce than 15.5	more than 10	2000	14
6C	(1.30mm)	(266/3.2mil)	(65mil)	0.100	2.04	0.402	10.2	124(185)	1000 triali 10.0	more triair re	2000	12
BC						0.465	11.8	158(235)				10
10C						0.508	12.9	188(280)				10

<sup>\*3</sup>C or more has the [Y/G] earth cable of an equal size.





### Allowable ampacity

- ·The allowable ampacity of this catalog is a value at one in the air construction and the ambient
- ·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

Bending turn-back bending Straight Bending Move bending A= More than 10 million times D= More than 1 million		*)1	Bend	U-shaped	90°	Tw	/ist	*)2	Examination's time:	0.14 (1.0.38)
		Bending	Denu	turn-back	bending	Straight	Bending	Move bending		
BE More than 5 million times EE More than 0.5 mil	[	Α	Α	S	Α	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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<sup>\*</sup>The test of 2000V/5 minute besides the withstand voltage test on above mentioned UL standard and the CSA standard is applied.

<sup>\*</sup>Please contact us which sizes are available.