EXT-01G-SB/2517 300V LF

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Electronic equipment robot cable

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

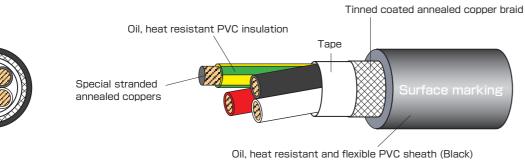
Application

- 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 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

**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 2517	CSA AWM II A/B
Voltage rating	300V	300V
Temperature rating	105℃	105℃
Conductor	UL 758	CSA C22.2 No.210
Flame rating	VW-1	FT1

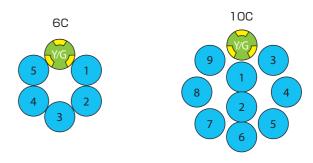




Identification

Black
White
Black
White
Black
White
Red 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 resistant PVC insulation			resistant VC sheath	Approx. weight	Electri	cal Characte	eristics	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)	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)	loss than 24 C	mara than 10	2000	6.7										
10C	$(0.518mm^2)$	(112/3.2mil)	(42mil)	0.078	1.97	0.413	10.5	111(165)	1688 (Hari 34.0	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	0.007	2.21	0.417	10.6	118(175)	loss than 01 0	mara than 10	2000	8.8										
10C		(168/3.2mil)	(52mil)	0.087	0.087	0.087	0.087	0.007	0.007	0.007	0.007	0.007	0.007	0.007	2.21	0.449	11.4	138(205)	less than 21.8 more th	Illore than 10	2000	8.0
12C	(0.0_0,	((/			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	254	0.339	8.6	87(130)	less than 15.5	more than 10	2000	14										
6C	(1.30mm^2)	(266/3.2mil)	(65mil)	0.100 2.54		0.402	10.2	124(185)	1000 11011 10.0	illore than 10	2000	12										
8C						0.465	11.8	158(235)				10										
10C						0.508	12.9	188(280)				10										

**3C or more has the [Y/G] earth cable 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.

c**FL**°us



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	Danal	U-shaped	90°	Tw	<i>r</i> ist	*)2	Examination's time:	
Bending	Bend	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	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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