EXT-01G/2517 300V LF

Electronic equipment robot cable

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

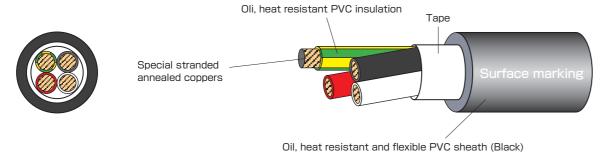
Application

- Appropriate for cable chain wiring for high-speed moving.
- Cable chain test 20 million times or more.
- 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

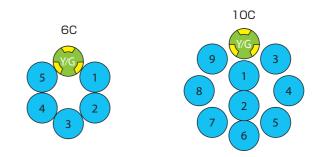




Identification

2C

·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 \sim 50%).





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Construction table

		Conductor		Oil,heat r PVC ins			Oil, heat resistant flexible PVC sheath		Electri	Electrical Characteristics		
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)	weight (lbs/1000ft) (kg/km)	resistance	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	ampacity (A)
2C						0.228	5.8	29(43)				10
3C						0.240	6.1	34(50)				10
4C						0.264	6.7	40(60)				8.8
6C						0.307	7.8	57(85)				7.3
8C	20	112/0.08	1.07	0.070	1.07	0.354	9.0	74(110)	laaa 4haa 04 C	46 40	0000	6.6
10C	(0.518mm)	(112/3.2mil)	(42mil)	0.078	1.97	0.386	9.8	87(130)	less than 34.6	more than 10	2000	6.1
12C						0.398	10.1	97(145)				5.6
16C						0.441	11.2	124(185)				5.0
20C						0.488	12.4	154(230)				4.6
30C						0.646	16.4	255(380)				4.1
2C						0.248	6.3	34(50)				13
3C						0.264	6.7	44(65)				13
4C						0.283	7.2	54(80)				11
6C						0.335	8.5	74(110)				9.6
8C	18	168/0.08	1.31	0.087	2.21	0.390	9.9	97(145)	loce than 21.0	more than 10	2000	8.7
10C		(168/3.2mil)		0.067	2.21	0.421	10.7	114(170)	1622 [1911 71.0	Illore than to	2000	7.9
12C	(010_0,	((==:,			0.437	11.1	131(195)				7.3
16C						0.484	12.3	168(250)				6.6
20C						0.535	13.6	205(305)				6.1
30C						0.713	18.1	336(500)				5.4
2C						0.276	7.0	47(70)				16
3C						0.291	7.4	57(85)				16
4C	16	266/0.08	1.64	0.100	2.54	0.315	8.0	74(110)	loce than 15.5	more than 10	2000	14
6C	(1.30mm²)	(266/3.2mil)	(65mil)	0.100	2.54	0.374	9.5	104(155)	less than 15.5 more than 10	2000	12	
8C						0.437	11.1	131(195)				10
10C						0.476	12.1	158(235)				9.9
2C	14	420/0.00	2.07			0.307	7.8	64(95)				23
3C		420/0.08	2.07	0.117	2.97	0.327	8.3	81(120)	less than 8.62	more than 10	2000	23
4C	(Z.UÖIIIII)	(420/3.2mil)	(81mil)			0.358	9.1	101(150)				20

^{*3}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 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

Bending turn-back bending Straight Bending Move bending A= More than 10 million times D= More than 1 million times	*)1	Bend	U-shaped	90°	Tw	/ist	*)2	Examination's time:	C M
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Bending	Denu	turn-back	bending	Straight	Bending	Move bending	S= More than 20 million times	C= More than 3 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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^{*}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.