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# 300V EXT-II-SB/2517 LF

## Electronic equipment robot cable

Heat resistance	****
Oil resistance	****
Noise resistance	***
Flame resistance	***
Torsion resistance	****
Flexibility resistance	****
Cable carrier	*****

### Application

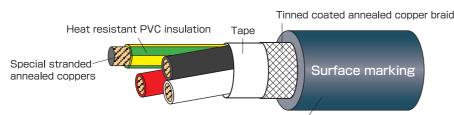
- Appropriate for cable bare wiring for high-speed moving.
- Cable Bear test 50 million times or more. (or more ability 100 million times)
- Shielded Robot cable with UL and cUL at 300V 105℃.(Category: AVLV2, AVLV8)

#### > Feature

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

#### Construction figure





Low friction, oil, heat, flame resistant and flexible PVC sheath(Dark Blue)

#### Surface marking

-300V EXT-II TAIYO □□AWG LF R15 E67647 **%** AWM 2517 105°C VW-1 . AWM IIA/B 105°C 300V FT1-

#### Identification

·2C, 3C, 4C

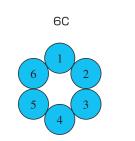


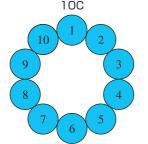
\*Y/G indicates green core with yellow stripe

Figures in O indicate black numbering on

light blue insulator.

·6 cores or more is identified by numbering











#### Standard sales length

(Sales by short length is available for large sizes. Please contact us which sizes are available.)

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°C	105℃
Conductor	UL 758	CSA C22.2 No.210
Flame rating	VW-1	FT1





#### Construction table

	Conductor		Conductor Heat-resistant PVC insulation Low friction, oil, heat, flam-resistant flexible PVC shear			Approx. Electrical weight		cal Characte	al 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)	(lbs/1000ft) (kg/km)	Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	ampacity (A)
2C						0.264	6.7	40(60)				9.7
3C						0.283	7.2	50(75)				9.7
4C 6C						0.303	7.7	60(90)				8.4
6C	20	119/0.08				0.350	8.9	77(115)				6.5
8C	(0.518mm)	(119/3.2mil)	1.1	0.079	2.0	0.409	10.4		less than 39.1	more than 10	2000	6.0
10C	(0.31011111)	(113/3,21111)				0.469	11.9	131(195)				5.6
12C						0.461	11.7	134(200)				5.2
16C						0.504	12.8	168(250)				4.7
20C						0.563	14.3	212(315)				4.4
30C						0.693	17.6	316(470)				3.9
2C						0.287	7.3	50(75)				12
3C						0.303	7.7	60(90)				12
4C 6C 8C						0.323	8.2	71(105)				11
6C	18	168/0.08				0.382	9.7	97(145)				8.6
8C	(0.823mm)	(168/3.2mil)	1.31	0.087	2.21	0.441	11.2		less than 24.0	more than 10	2000	7.9
10C	(0.02011111)	(100/3.21111)				0.504	12.8	161(240)				7.4
12C						0.496	12.6	171(255)				6.8
16C						0.555	14.1	222(330)				6.2
20C						0.606	15.4	265(395)				5.7
30C						0.760	19.3	403(600)				5.1
2C						0.315	8.0	60(90)				16
3C	16	266/0.08			0.54	0.331	8.4	74(110)			0000	16
4C 6C	(1.30mm)	(266/3,2mil)	1.64	0.100	2.54	0.354	9.0		less than 15.5	more than 10	2000	14
6C	(	(=====)				0.425	10.8	131(195)				11
8C						0.496	12.6	175(260)				10
10C						0.571	14.5	218(325)				9.7

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

#### Allowable ampacity

- ·The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30℃.
- ·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	<i>i</i> ist	*)2	Examination's time: SS= More than 50 mil
Bending	Denu	turn-back	bending	Straight	Bending	Move bending	S= More than 20 mil
Α	Α	SS	Α	Α	Α	С	A= More than 10 mil

illion times B= More than 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.