# 300V EXT-II-SB/2517 LF

# Electronic equipment robot cable

Heat resistance ★★★★ Oil resistance ★★★★ Noise resistance ★★★ Flame resistance ★★★★ Torsion resistance★★★★ Flexibility resistance★★★★ Drag chain \*\*\*\*\* \*The characteristic is an aim

# Application

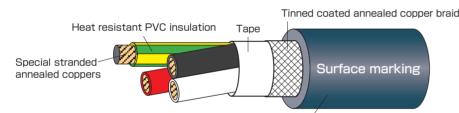
- Appropriate for drag chain wiring for high-speed moving.
- Drag chain test 50 million times or more. (or more ability 100 million times)
- Shielded Robot cable with UL and cUL at 300V 105℃.(Category: AVLV2, AVLV8)

# > 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-

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

# Identification

·2C. 3C. 4C

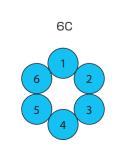


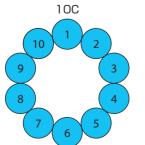
\*Y/G indicates green core with yellow stripe

Figures in O indicate black numbering on

light blue insulator.

·6 cores or more is identified by numbering





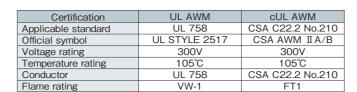






#### Standard sales length

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







300V EXT-II-SB/2517

#### Construction table

	Conductor		Heat-resistant PVC insulation		Low friction, oil, heat, flame 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)	resistance	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						0.303	7.7	60(90)				8.4
6C						0.350	8.9	77(115)				6.5
8C	20	119/0.08		0.070	0.0	0.409	10.4	104(155)	lana Hana 00 1		0000	6.0
10C	$(0.518mm^{2})$	(119/3.2mil)	1.1	0.079	2.0	0.469	11.9	131(195)	less than 39.1	more than 10	2000	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						0.323	8.2	71(105)				11
6C						0.382	9.7	97(145)				8.6
8C	18	168/0.08				0.441	11.2	128(190)				7.9
10C 12C	(0.823mm)	(168/3.2mil)	1.31	0.087	2.21	0.504	12.8		less than 24.0	more than 10	2000	7.4
12C	(0.02011111)	(100/0.21111)				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 3C						0.315	8.0	60(90)				16
		000 (0.00				0.331	8.4	74(110)				16
4C	16	266/0.08	1.64	0.100	2.54	0.354	9.0	91(135)	less than 15.5	more than 10	2000	14
6C	(1.30mm)	(266/3.2mil)		000		0.425	10.8	131(195)	1000 0.011 10.0	o.o alari 10	_500	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°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	Dond	U-shaped	90°	Tw	/ist	*)2	Examination's time:	D. Maria than 5 million time
Bending	Bend	turn-back	bending	Straight	Bending	Move bending	SS= More than 50 million times S= More than 20 million times	
Α	Α	SS	Α	Α	Α	С	A= More than 10 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 drag chain is dependent on the travel distance. Please consult our Sales Department when wiring a travel distance of 5m or greater.

#### Oil resistance

In	sulating 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.