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600V EXT-II-SB/2501 LF

Electronic equipment robot cable

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

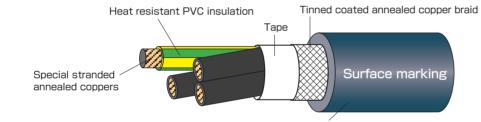
Application

- Appropriate for cable chain wiring for high-speed moving.
- Cable chain test 50 million times or more. (or more ability 100 million times)
- Shielded Robot cable with UL and cUL at 600V 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

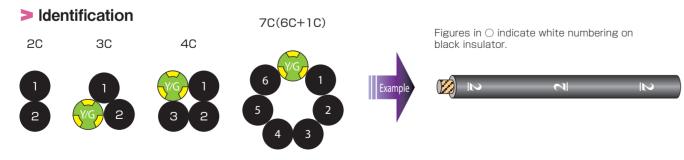


Low friction, oil, heat, flame resistant and flexible PVC sheath(Dark Blue)

Surface marking

—600V EXT-II TAIYO □□AWG LF R15 E67647 🕦 AWM 2501 105°C VW-1 乳 AWM IIA/B 105°C 600V FT1—

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



¾Y/G indicates green core with yellow stripe(30~50%)

Standard sales length

100m

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







Construction table

		Conductor			Heat-resistant PVC insulation		Low friction, oil, heat, flame resistant flexible PVC sheath		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)	weight (lbs/1000ft) (kg/km)	Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	ampacity (A)
2C						0.402	10.2	84(125)				13
3C	18	168/0.08	1.31	0.118	3.0	0.421	10.7	97(145)	less than 24.0	more than 50	2000	13
4C	(0.823 mm)	(168/3.2mil)	(52mil)	0.110	5.0	0.457	11.6	118(175)	1633 111011 24.0	more train 50	2000	12
6C+1C						0.579	14.7	195(290)				9.6
2C						0.429	10.9	97(145)				17
3C	16	266/0.08	1.64	0.130	3.3	0.453	11.5	121(180)	less than 15.5	more than 50	2000	17
4C	(1.30mm)	(266/3.2mil)	(65mil)	0.130	3.3	0.488	12.4	144(215)	1622 (1911 12.2	more than 50	2000	15
6C+1C						0.614	15.6	228(340)				12
2C						0.465	11.8	121(180)				23
3C	14	420/0.08	2.07	0.150	3.8	0.488	12.4	148(220)	loss than 0.75	more than 50	2000	23
4C	(2.08mm)	(420/3.2mil)	(81mil)	0.150	3.0	0.528	13.4	175(260)	1622 (11411 9.73	more train 50	2000	20
7C						0.665	16.9	282(420)				16

Ground core

	Conductor		Heat-resistant PVC insulation			
Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Thickness (mm)	Outside diameter (mm)		
14	420/0.08	2.07	0.85	3.8		

 $\mbox{\%}$ Core number mark "+1C" has the [Y/G] ground core of 14AWG size. $\mbox{\%}$ 3 or 4 and 14AWG size has the [Y/G] ground core 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.

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	Bend	U-shaped	90°	Tw	vist	*)2	Examination's time: SS= More than 50 million times	B= More than 5 million times
Bending	Denu	turn-back	bending	Straight	Bending	Move bending	S= More than 20 million times	C= More than 3 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 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.