>> Meeting standard

EXT-01G/2501 600V LF

Electronic equipment robot cable

leat resistance	****
Oil resistance	****
Noise resistance	*
lame resistance	***
Torsion resistance	****
lexibility resistance	****
Cable carrier	*****
%The characteristic is an	o o ino

Application

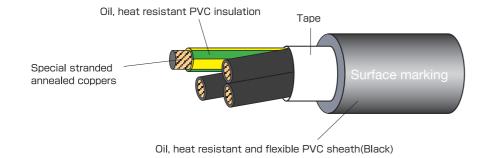
- Appropriate for cable bare wiring for high-speed moving.
- Cable Bear test 20 million times or more.
- Robot cable with UL and cUL at 600V 105°C. (Category: AVLV2, AVLV8)

> 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 PM S AWM 2501 VW-1 IIA/B 105°C 600V FT1

UL 758

VW-1





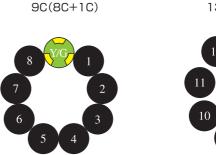
Identification

Conductor

Flame rating

20 30 40

CSA C22.2 No.210





Figures in \bigcirc indicate white numbering on black insulator.

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





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Construction table

		Conductor		Oil,heat r PVC ins			resistant VC sheath	Approx. weight	Electrical Characteristics		Allowable	
No. of cores	Size	Construction	Outside	Outside	Outside	Overall	Overall	(lbs/1000ft)	Conductor	Insulation	Electrical	ampacity
	(AWG)	(Line/mm)	diameter (mm)	diameter (inch)	diameter (mm)	diameter approx.(inch)	diameter approx.(mm)	(kg/km)	resistance (Ω/km20°C)		strength (V/1min.)	(A)
2C			(******)	(IIIOII)	(11111)	0.366	9.3	67(100)	(327 1(11)20 0)	(141321(11)20 0)	(V / 11111114)	14
3C						0.386	9.8	81(120)				14
4C						0.413	10.5	94(140)				12
6C+1C	10	100/0.00	1.01			0.531	13.5	158(235)				9.9
8C+1C	18	168/0.08 (168/3.2mil)	1.31 (52mil)	0.115	2.91	0.602	15.3	198(295)	less than 21.8	more than 50	2000	9.1
10C+1C	(0.023)	(100/3.21111)	(52mil)			0.626	15.9	208(310)				8.3
12C+1C						0.654	16.6	235(350)				7.8
20C+1C						0.787	20.0	356(530)				6.6
30C+1C						0.961	24.4	548(815)				5.7
2C						0.394	10.0	81(120)				18
3C						0.413	10.5	97(145)				18
4C						0.445	11.3	118(175)				16
6C+1C	16	266/0.08	1.64			0.567	14.4	195(290)				12
10C+1C	(1.30mm)	(266/3,2mil)	(65mil)	0.128	3.24	0.673	17.1		less than 13.7	more than 50	2000	10
12C+1C	(1.3011111)	(200/ 3.21111)	(OSITIII)			0.705	17.9	296(440)				10
20C+1C						0.945	24.0	504(750)				8.6
30C+1C						1.043	26.5	702(1045)				7.4
40C+1C						1.157	29.4	863(1285)				6.7
2C						0.425	10.8	101(150)				24
3C						0.449	11.4	124(185)				24
4C	14	420/0.08	2.07			0.488	12.4	148(220)				21
7C	(2.08mm)			0.144	3.67	0.614	15.6		less than 8.62	more than 50	2000	16
11C	\ ∠. UOIII(II)	(420/3,2mil)	20/3.2mil) (81mil)	11)		0.736	18.7	333(495)				14
13C						0.776	19.7	380(565)				13
21C						1.039	26.4	719(1070)				11

^{**}Core number mark "+1C" has the [Y/G] ground core of 14AWG size.





> Allowable ampacity

·The allowable ampacity of this catalog is a value at one in the air construction and the ambient

·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	/ist	*)2	Examination's time:	0.14
Bending	Denu	turn-back	bending	Straight	Bending	Move bending		
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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^{*3}C or 4C and 14AWG or more 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.

^{*}Please contact us which sizes are available.