> > Meeting standard

600V EXT-X/2501 LF

Electronic equipment robot cable



Application

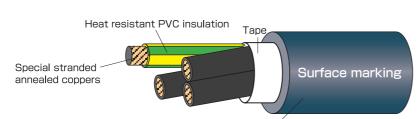
- Appropriate for cable bare wiring for high-speed moving.
- Cable Bear test 50 million times or more. (or more ability 100 million times)
- Robot cable with UL and cUL at 600V 105°C. (Category: AVLV2, AVLV8)

> Feature

- Fine wire 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)

* 10AWG or larger: annealed copper.

Surface marking

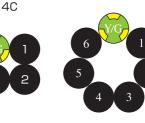
—600V EXT-X TAIYO □□AWG LF R15 E67647 🕦 AWM 2501 105°C VW-1 🔊 AWM IA/B 105°C 600V FT1—

Identification









7C

Figures in \bigcirc indicate white numbering on black insulator.



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

Standard sales length

(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		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)	Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	ampacity (A)
2C						0.484	12.3	131(195)				31
3C	12	441/0.10	2.7	0.173	4.4	0.512	13.0	165(245)	loce than 5.70	more than 50	2000	31
4C	(3.30 mm)	(441/3.9mil)	(106mil)	0.173	4.4	0.555	14.1	205(305)	1622 [[Idi] 0.79			27
7C						0.709	18.0	336(500)				21
3C	10	693/0.10	3.3	0.197	5.0	0.567	14.4	222(330)	loce than 3.50	more than 50	2000	43
4C	(5.26 mm)	(693/3.9mil)	(130mil)	0.197	5.0	0.618	15.7	279(415)	1622 (1911 2:20	IIIOIE (IIAII 30	2000	37
3C	8	350/0.18	4.3	0.303	7.7	0.795	20.2	403(600)	less than 2.33	more than 50	2000	58
4C	(8.36 mm)	(350/7.1mil)	(169mil)	0.303	/./	0.921	23.4	548(815)	1635 (11011 2.33	IIIOIE IIIAII 30	2000	49
3C	6	588/0.18	5.7	0.358	9.1	0.961	24.4	625(930)	loss than 1 /11	more than 50	2000	79
4C	(13.3mm^{2})	(588/7.1mil)	(224mil)	4mil) 0.336	56 9.1	1.055	26.8	793(1180)	1692 (11911 1.41	more triain 50	2000	67

*3 cores or more 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

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°	Τw	/ist	*)2	Examination's time:	D. Mara than 5 million times
Bending	Denu	turn-back	bending	Straight	Bending	Move bending		
Α	Α	SS	Α	Α	Α	С	A= More than 10 million times	D= More than 1 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.

0009

EXT-X/2501 LF