

EXT-3D-SB/CL3X/2586 600V LF

Electronic equipment robot cable

Application

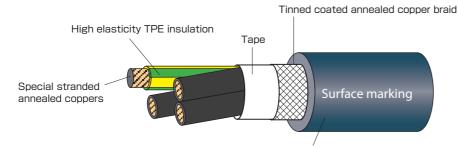
- Appropriate wiring for multi-joint unit portion. (Twist test 20 million times or more.)
- Appropriate for cable chain wiring for high-speed moving. (Cable chain test 20 million times or more.)
- CL3X that is the listing standard is acquired and it corresponds to NFPA70,79.
- Sheilded Robot cable with UL and cUL at 600V, 105°C. (Category: AVLV2, AVLV8, QPTZ)

Feature

- Extremely fine conductor use.
- High bending elasticity and heat resistant TPE is 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)

Identification

0009

-3D-SB/CL3X/2586

38







Figures in \bigcirc indicate white numbering on

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

Surface marking

TAIYO EXT-3D □□AWG LF R15 E242171 (UL) CL3X 105°C □□AWG or AWM 2586 105°C 600V VW-1 🙌 AWM IIA/B 105°C	. 600V FT1
7 17 17 27 18 2 18 18 2 18 18 2 18 18 2 18 18 18 18 18 18 18 18 18 18 18 18 18	0001111

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

black insulator.

Construction table

Certification

Applicable standard

Temperature rating

Official symbol

Voltage rating

Conductor

Flame rating

	Conductor		High elasticity TPE 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	10	100/0.00	1.01			0.244	6.2	40(60)				13
3C	18	168/0.08 (168/3.2mil)	1.31	0.075	1.91	0.256	6.5	47(70)	less than 22.3	more than 100	2000	13
4C	(0.023)	(100/3.21111)	(52mil)			0.276	7.0	54(80)				11
2C	16	266/0.08	1.64			0.272	6.9	50(75)				17
3C		(266/3.2mil)		0.088	2.24	0.283	7.2	60(90)	less than 13.9	more than 100	2000	17
4C	(1.30)	(200/3.211111)	(65mil)			0.307	7.8	74(110)				15
2C	14	420/0.08	2.07			0.311	7.9	67(100)				23
3C		(420/3.2mil)		0.109	2.77	0.346	8.8	91(135)	less than 8.77	more than 100	2000	23
4C	(2.00)	(420/3.21111)	211111) (0111111)			0.374	9.5	111(165)				20

CSA AWM II A/B

600V

105℃

CSA C22.2 No.210

*3,4 core has the [Y/G] earth cable of an equal size.

UL CL3X

UL13 CL3X

300V

105°C

UL13

*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.

UL AWM

105℃

STYLE 2586

Please multiply the following adjustment factors by the ambient temperature.

Note) Please refer to P.278 when you use this cable accoding to NFPA70 or NFPA79.

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
Bending	Deriu	turn-back	bending	Straight	Bending	Move bending
Α	Α	S	Α	S	Α	С

Examination's time:

A= More than 10 million times D= More than 1 million 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.

Standard sales length

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