EXT-Type 3D Series EXT-3D/CL3X/2586 600V LF

Electronic equipment robot cable

Application

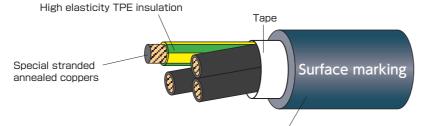
- Appropriate wiring for multi-joint unit portion. (Twist test 20 million times or more.)
- Appropriate for cable chain wiring for high-speed moving. (Cable chain test 20 million times or more.)
- CL3X that is the listing standard is acquired and it corresponds to NFPA70,79.
- Robot cable with UL and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

Feature

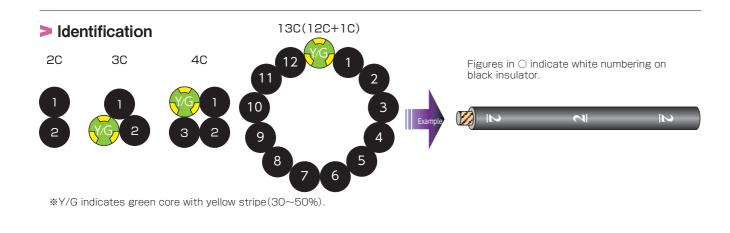
- Extremely fine conductor use.
- High bending elasticity and heat resistant TPE is used for insulation.
- Oil and heat resistant PVC used for sheath.
- Low friction material used for sheath.
- Flame resisting : UL VW-1, cUL FT1.
- IPA Certification (ISO14644-1 Air Cleanliness) Uses materials equivalent to the Class 1 certified size.

Construction figure





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



Surface marking

TAIYO EXT-3D AWG LF R15 E242171 (UL) CL3X 105°C AWG or AWM 2586 105°C 600V VW-1 AW IA/B 105°C 600V FT1

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

Certification	EXT-3D LF					
Certification	UL CL3X	UL AWM	cUL AWM			
Applicable standard	UL13	UL758	CSA C22.2 No.210			
Official symbol	CL3X	UL STYLE 2586	CSA AWM II A/B			
Voltage rating	300V	600V	600V			
Temperature rating	105°C	105°C	105°C			
Conductor	UL13	UL758	CSA C22.2 No.210			
Flame rating	VW-1	VW-1	FT1			

Construction table

*

Torsion resistance Flexibility resistance $\star \star \star \star \star$

*The characteristic is an aim

Heat resistance

Flame resistance

Oil resistance Noise resistance

Cable carrier

		Conductor		High ela TPE ins		Low friction resistant fle
No. of cores	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diamete approx. (inch
20						0.224
3C						0.236
4C	18	160/0.00	1.31			0.256
6C+1C		168/0.08 (168/3.2mil)		0.075	1.91	0.354
8C+1C	(0.02311111)	(100/3.21111)	(52mil)			0.402
10C+1C						0.453
12C+1C						0.500
20						0.252
3C						0.264
4C	16	266/0.08	1.64	0.088	2.24	0.287
6C+1C	(1.30mm [*])	(266/3.2mil)	(65mil)	0.000	2.24	0.394
10C+1C						0.508
12C+1C						0.571
2C						0.291
3C	14	420/0.08	2.07	0.109	2.77	0.311
4C	(2.08mm ²)	(420/3.2mil)	(81mil)	0.109	2.11	0.354
6C+1C						0.461

*Core number mark "+1C" has the [Y/G] earth cable of 14AWG size. *3,4 core has the [Y/G] earth cable 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.

Note) Please refer to P.278 when you use this cable according 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°	Twist		*)2
Bending	Della	turn-back	bending	Straight	Bending	Move bending
A	A	S	А	S	A	С

*)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
A	A	В	В	В	В

*A~C in the table indicate the characteristics below.

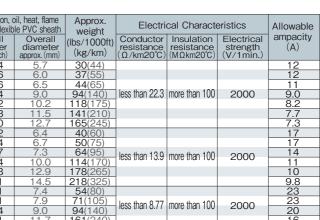
A:There is no problem on practical use at all B:Deterioration slightly no problem almost on practical use. C:lt is sometimes deteriorated to some degree, and not possible to use it.

Standard sales length

100m (Sales by short length is available for large sizes. Please contact us which sizes are available.)



> > > Meeting standard



Examination's time S= More than 20 million times A= More than 10 million times B= More than 5 million times C= More than 3 million times