Cleanroom compatible low dust robot cable.

Heat resistance Oil resistance Drag chain *The characteristic is an aim

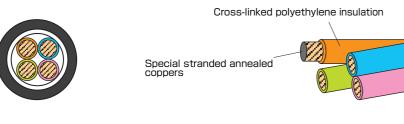
> Application

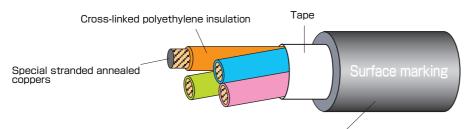
- Appropriate for drag chain wiring for high-speed moving.
- Drag chain test 20 million times or more.
- Corresponds to halogen-free requirement.
- Robot cable with UL and cUL at 300V 80°C. (Category: AVLV2,AVLV8)

> Feature

- Extremely fine conductor use.
- Cross-linked polyethylene used for insulation.
- Halogen-free flame-retardant polyurethane (TPU)used for sheath.
- Flame resisting : UL, cUL FT2.(Horizontal flame tes)
- IPA Certification (ISO14644-1 Air Cleanliness) Uses materials equivalent to the Class 1 certified size.

> Construction figure





Halogen-free flame-retardant polyurethane sheath.(Black)

Surface marking

CL-STR MV HF TAIYO E67647 N AWM 21815 80°C 300V N AWM IA/B 80°C 300V FT2

Identification

2C

生

BK

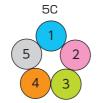
3000

STAR MV

EAN







lumber	Color
1	LightBlue
2	Pink
3	LightGreen
4	Orange
5	Gray

Standard sales length

100m

Certification	UL AWM	cUL AWM
Applicable standard	UL 758	CSA C22.2 No.210
Official symbol	UL STYLE 21815	CSA AWM II A/B
Voltage rating	300V	300V
Temperature rating	80°C	80°C
Conductor	UL 758	CSA C22.2 No.210

>			Meeting	standard
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Construction table

Flame rating

	Conductor		Cross-linked(XLPE) polyethylene insulation		Halogen-free flame-retardant polyurethane(TPU) 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						0.161	4.1	12(18)				3.6
3C	26	30/0.08	0.51	0.040	1.01	0.169	4.3	14(21)	less than	more than	2000	3.1
4C	(0.128mm)	(30/3.2mil)	(20.1mil)	0.040	1.01	0.181	4.6	17(26)	137	100	2000	2.7
5C						0.189	4.8	19(29)				2.5
2C	0.4					0.169	4.3	14(21)				4.3
3C	24	41/0.08	0.59	0.040	1.09	0.177	4.5	16(24)	less than	more than	0000	3.6
4C	(0.205 mm)	(41/3.2mil)	(23.23mil)	0.043	1.09	0.189	4.8	19(28)	102	100	2000	3.3
5C			1			0.201	5.1	24(35)				3.0
2C						0.181	4.6	17(26)				5.7
3C	22	65/0.08	0.75	0.040	4.05	0.189	4.8	20(30)	less than	more than	2000	4.8
4C	(0.326 mm)	(65/3.2mil)	(29.53mil)	0.049	1.25	0.201	5.1	24(35)	64.4	100	2000	4.2
5C						0.217	5.5	27(40)				3.9

**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.
- ·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	0.89	0.77	0.63	0.45	_	_	_

Movement characteristic

*) 1 Rotary bending	Bending	U-shaped turn-back	90°bending
В	В	Α	В

Examination's time: S=More than 20 million times C=More than 3 million times

A=More than 10 million times D=More than 1 million times 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.
- *The longevity of the cable inside a drag chain 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	С	В	В	С	С

*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.