

600V EXT-X-SB/2501 LF

- Heat resistance ★★★★★
- Oil resistance ★★★★★
- Noise resistance ★★★
- Flame resistance ★★★★★
- Torsion resistance ★★★★★
- Flexibility resistance ★★★★★
- Cable carrier ★★★★★★

※The characteristic is an aim.



Electronic equipment robot cable

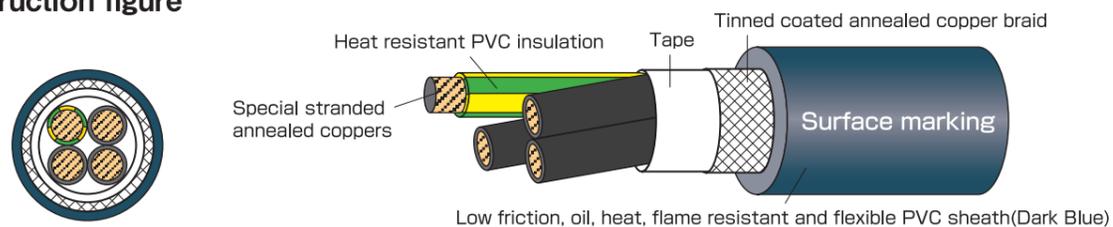
> Application

- Appropriate for cable bare wiring for high-speed moving.
- Cable Bear test 50 million times or more. (or more ability 100 million times)
- Shield Robot cable with UL and cUL at 600V 105°C. (Category : AVL2, AVL8)

> 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

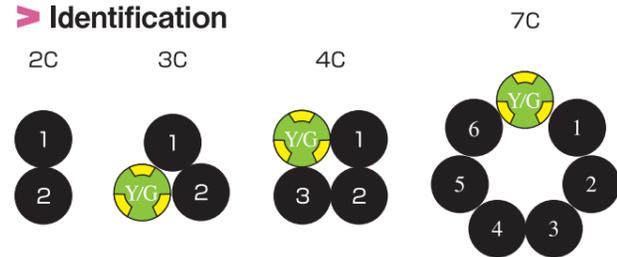


※10AWG : annealed copper.

> Surface marking



> Identification



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

Figures in ○ indicate white numbering on black insulator.



> Standard sales length

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

Certification	UL AWM	cUL AWM
Applicable standard	UL 758	CSA C22.2 No.210
Official symbol	UL STYLE 2501	CSA AWM II A/B
Voltage rating	600V	600V
Temperature rating	105°C	105°C
Conductor	UL 758	CSA C22.2 No.210
Flame rating	VW-1	FT1

> Construction table

No. of cores	Conductor			Heat-resistant PVC insulation		Low friction, oil, heat, flame resistant flexible PVC sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Overall diameter approx. (inch)	Overall diameter approx. (mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	
3C	12	441/0.10	2.7			0.539	13.7	195(290)				32
4C	(3.30mm)	(441/3.9mil)	(106mil)	0.173	4.4	0.587	14.9	242(360)	less than 5.79	more than 50	2000	27
7C						0.740	18.8	383(570)				21
3C	10	693/0.10	3.3			0.598	15.2	259(385)			2000	43
4C	(5.26mm)	(693/3.9mil)	(130mil)	0.197	5.0	0.650	16.5	319(475)	less than 3.50	more than 50		37

※ [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.

> 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.

●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 Bending	Bend	U-shaped turn-back	90° bending	Twist		*) 2 Move bending
				Straight	Bending	
A	A	SS	A	A	A	C

Examination's time:
 SS= More than 50 million times B= More than 5 million times
 S= More than 20 million times C= More than 3 million times
 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
A	A	B	B	B	B

※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.