

# 1000V RFX-SB LF

Electric wire for wiring in equipment and power supply

- Heat resistance ★★★★★
  - Oil resistance ★★★★★
  - Noise resistance ★★★★★
  - Flame resistance ★★★★★
  - Torsion resistance ★★★★★
  - Flexibility resistance ★★★★★
  - Cable carrier ★★★★★
- ※The characteristic is an aim.

Meeting standard



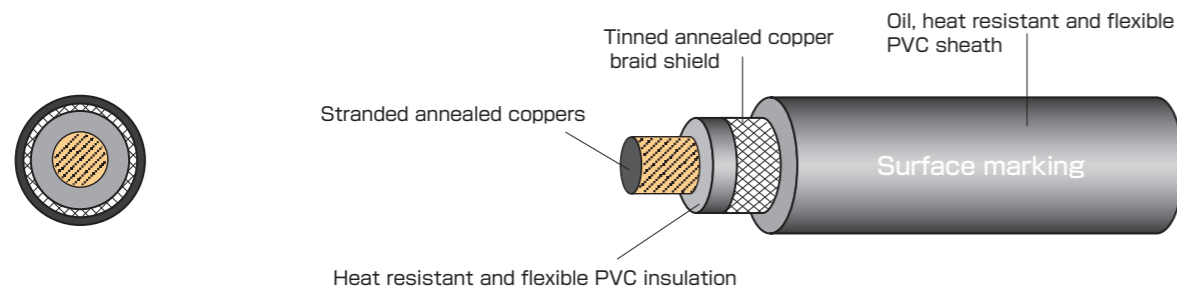
## Application

- Electric wire for wiring in power supply.
- Appropriate for wiring in a narrow place is excellent in flexibility.
- It is possible to use it for wiring medium or low-speed operational components of machine tool.
- Cable chain test 10 million times or more.
- Electrical insulated wire for internal Wiring equipment with UL at 1000V,90°C. (Category : AVL2)
- The shield(-SB) reduce the impact of external noise on the wire.

## Feature

- Fine wire conductor use.
- Super flexible heat resistant PVC used for insulation.
- Oil, heat resistant and Flexible PVC sheath material is used.
- Flame resisting : UL VW-1.

## Construction figure



## Surface marking



## Identification

- Black,Orange

Certification	UL AWM
Applicable standard	UL 758
Official symbol	UL STYLE 10678
Voltage rating	1000V
Temperature rating	90°C
Conductor	UL 758
Flame rating	VW-1

## Construction table

No. of cores	Conductor			heat-resistant flexible-PVC insulation		Oil, heat-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)	Outside diameter (inch)	Outside diameter (mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)	
1C	10(5.44mm)	7/99/3.9mil	3.3(130mil)	0.197	5.0	0.287	7.3	74(110)	~3.30	10~	3000	63
1C	8(8.91mm)	7/50/7.1mil	4.3(169mil)	0.303	7.7	0.398	10.1	141(210)	~2.18	10~	3000	89
1C	6(15.0mm)	7/84/7.1mil	5.7(224mil)	0.358	9.1	0.453	11.5	198(295)	~1.32	10~	3000	122
1C	4(22.4mm)	7/126/7.1mil	6.9(272mil)	0.406	10.3	0.504	12.8	269(400)	~0.882	10~	3000	157
1C	2(35.6mm)	7/200/7.1mil	8.7(343mil)	0.484	12.3	0.626	15.9	410(610)	~0.554	10~	3000	211
1C	1(44.9mm)	7/252/7.1mil	9.7(382mil)	0.563	14.3	0.705	17.9	517(770)	~0.441	10~	3000	243
1C	1/0(56.8mm)	12/186/7.1mil	11.2(441mil)	0.622	15.8	0.764	19.4	612(910)	~0.349	10~	3000	284
1C	2/0(73.3mm)	12/240/7.1mil	12.7(500mil)	0.681	17.3	0.846	21.5	766(1140)	~0.270	10~	3000	333
1C	3/0(91.6mm)	12/300/7.1mil	14.2(559mil)	0.740	18.8	0.906	23.0	917(1365)	~0.206	10~	3000	393
1C	4/0(116mm)	19/240/7.1mil	15.8(622mil)	0.803	20.4	0.969	24.6	1099(1635)	~0.161	10~	3000	457

## Allowable ampacity

·The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30°C.

·Please multiply the following adjustment factors by the ambient temperature and the cable-laying conditions, etc.

●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

●Adjustment factors(for multiple-line laying)

No. of conductors	2~3	4	5~6	7~15	16~40	41~60	61~
Adjustment factors	0.70	0.63	0.56	0.49	0.43	0.39	0.34

## Movement characteristic

Rotary bending	Bending	U-shaped turn-back	90° bending	Twist		Move bending
				Straight	Bending	
C	B	A	C	B	B	C

Examination's time:  
 A= More than 10 million times  
 B= More than 5 million times  
 C= More than 3 million times  
 D= More than 1 million times  
 E= More than 0.5 million times

※Please consult our Sales Department when using by moving part.

## 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.

## Standard sales length

100m  
 (Orange:Make-to-order Products.)