

UE/SSX83 LF, UE/SSX84 LF

Electric wire for wiring in equipment and power supply

UE/SSX83 LF		UE/SSX84 LF	
Heat resistance	★★★★★	Heat resistance	★★★★★
Oil resistance	★★★	Oil resistance	★★★
Noise resistance	★	Noise resistance	★
Flame resistance	★★★★	Flame resistance	★★★★
Torsion resistance	★★★★	Torsion resistance	★★★★
Flexibility resistance	★★★★★	Flexibility resistance	★★★★★
Cable carrier	★★★★★	Cable carrier	★★★★★

※The characteristic is an aim.

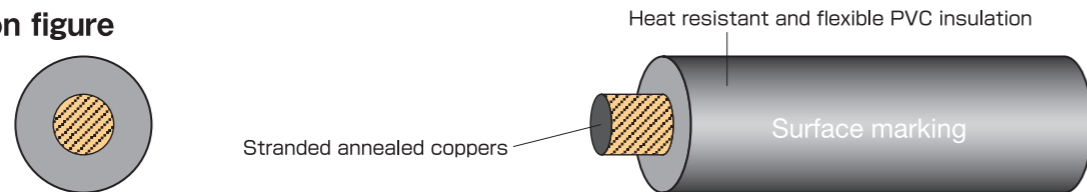
> Application

- Electric wire for wiring in power supply.*
※It is not possible to use it as an electric wire for the power supply on the CSA standard.
- 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 Bear test 10 million times or more.
- Electrical insulated wire for internal Wiring equipment with UL and cUL at 600V, 105°C.
(Category : AVLV2, AVLV8)
- CE marking. (TÜV recognition goods) (Certificate of TÜV No.J9950730)

> Feature

- Fine wire conductor use.
- Super flexible heat resistant PVC used for insulation.
- Flame resisting : UL VW-1, cUL FT1.

> Construction figure



> Surface marking

·UE/SSX83 LF

E67647 AWM 1283 105°C 600V AWG VW-1 TAIYO AWM IA/B 105°C 600V FT1 TAIYO CE 07V-K 450/750V <PS>E TY LF R15

·UE/SSX84 LF

(1) 1~3/OAWG wires

E67647 AWM 1284 105°C 600V AWG VW-1 TAIYO AWM IA/B 105°C 600V FT1 TAIYO CE 07V-K 450/750V <PS>E TY LF R15

(2) 4/OAWG wires

E67647 AWM 1284 105°C 600V AWG VW-1 TAIYO AWM IA/B 105°C 600V FT1 TAIYO CE 07V-K 450/750V LF R15

> Identification

● UE/SSX83 LF

·Black, white, red, blue and Y/G.

● UE/SSX84 LF

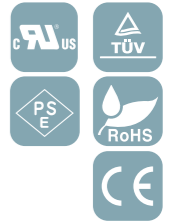
·1AWG:black and Y/G. 1/OAWG:black and Y/G.
2/O, 3/OAWG:black and Y/G. 4/OAWG:black.

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

	AWG	Black	White	Red	Blue	Brown	Y/G
UE/SSX83 LF	8	○	○	○	○	○	○
	6	○	○	○	○	○	○
	4	○	○	○	○	○	○
	2	○	○	○	○	○	○
UE/SSX84 LF	1	○					○
	1/0	○					○
	2/0	○					○
	3/0	○					○
	4/0	○					○

○:Standard stock color

Certification	UL AWM	cUL AWM	TÜV.CE marking	Electrical Appliance and Material Safety Law/Departmental order to determine a technical standard of the electrical equipment
Applicable standard	UL 758	CSA C22.2 No.210	EN50525-2-31	Synthetic resin insulated electric wire
Official symbol	UL STYLE 1283 1284	CSA AWM I A/B	Equivalent of H07V-K	
Voltage rating	600V	600V	450/750V	600V
Temperature rating	105°C	105°C	70°C	60°C
Conductor	UL 758	CSA C22.2 No.210	EN60228	JIS C 3102
Flame rating	VW-1	FT1	EN50264-2-1	JIS C 3005 4.26.2 b)



> Construction table

·UE/SSX83 LF

No. of cores	Conductor			Heat - resistant flexible - PVC insulation		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)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩ/km20°C)	Electrical strength (V/1min.)	
1C	8(8.36mil)	7/50/0.18 (7/50/7.1mil)	4.30 (169mil)	0.303	7.7	87(130)	less than 2.18	more than 50	2000	93 (* 74)
1C	6(13.3mil)	7/84/0.18 (7/84/7.1mil)	5.70 (224mil)	0.358	9.1	134(200)	less than 1.32	more than 50	2000	130 (* 100)
1C	4(21.1mil)	7/126/0.18 (7/126/7.1mil)	6.90 (272mil)	0.406	10.3	188(280)	less than 0.882	more than 40	2000	160 (* 130)
1C	2(33.6mil)	7/200/0.18 (7/200/7.1mil)	8.70 (343mil)	0.484	12.3	286(425)	less than 0.554	more than 40	2000	220 (* 180)

※The test of 2500V/5 minute besides the withstand voltage test on above mentioned UL standard and the CSA standard is applied.

·UE/SSX84 LF

No. of cores	Conductor			Heat - resistant flexible - PVC insulation		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)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩ/km20°C)	Electrical strength (V/1min.)	
1C	1(42.4mil)	7/252/0.18 (7/252/7.1mil)	9.70 (382mil)	0.563	14.3	373(555)	less than 0.441	more than 40	2500	260 (* 210)
1C	1/0(53.4mil)	12/186/0.18 (12/186/7.1mil)	11.20 (441mil)	0.622	15.8	464(690)	less than 0.349	more than 40	2500	310 (* 240)
1C	2/0(67.4mil)	12/240/0.18 (12/240/7.1mil)	12.70 (500mil)	0.681	17.3	581(865)	less than 0.270	more than 30	2500	360 (* 290)
1C	3/0(85.0mil)	12/300/0.18 (12/300/7.1mil)	14.20 (559mil)	0.740	18.8	712(1060)	less than 0.206	more than 30	2500	430 (* 340)
1C	4/0(107mil)	19/240/0.18 (19/240/7.1mil)	15.80 (622mil)	0.803	20.4	880(1310)	less than 0.161	more than 30	2500	500 (* 400)

※The test of 2500V/5 minute besides the withstand voltage test on above mentioned UL standard and the CSA standard is applied.

※The Allowable ampacity of in () is reference then it is used to moving.

> 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

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

※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
(50m length is available for 6AWG or larger sizes.)