

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.

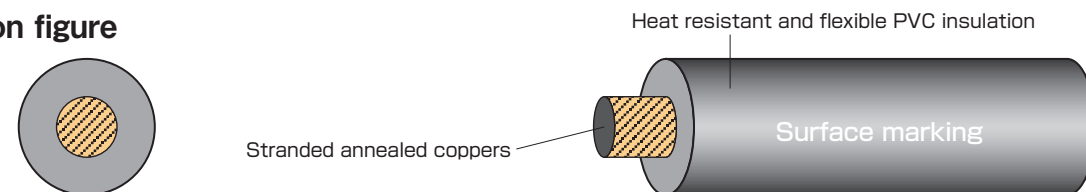
> Application

- 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 chain 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

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

> Identification

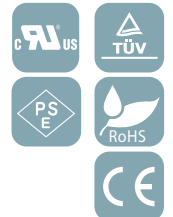
- UE/SSX83 LF
·Black, white, red, blue and Y/G.
- UE/SSX84 LF
·Black and Y/G: 1/AWG, 1/OAWG, 2/OAWG, 3/OAWG
·Only Black: 4/OAWG
*Y/G indicates green core with yellow stripe(30~50%).

	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

>>> Meeting standard

Certification	UL AWM	cUL AWM	TÜV.CE marking	Electrical Appliance and Material Safety
Applicable standard	UL 758	CSA C22.2 No.210	EN50525-2-31	Law/Departmental order to determine a technical standard of the electrical equipment
Official symbol	UL STYLE 1283 1284	CSA AWM IA/B	Equivalent of H07V-K	Synthetic resin insulated electric wire
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 (MΩkm20°C)	Electrical strength (V/1min.)	
1C	8 (8.91mil)	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 (15.0mil)	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 (22.4mil)	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(35.6mil)	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 (MΩkm20°C)	Electrical strength (V/1min.)	
1C	1 (44.9mil)	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 (56.8mil)	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 (73.3mil)	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 (91.6mil)	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 (116mil)	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.)