

UE/SSX1015 LF

Electric wire for wiring equipment

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

※The characteristic is an aim.

Certification	UL AWM	cUL AWM	TÜV.CE marking
Applicable standard	UL 758	CSA C22.2 No.210	EN50525-2-31
Official symbol	UL STYLE 1015	CSA AWM I A/B	Equivalent of H07V-K
Voltage rating	600V	600V	450/750V
Temperature rating	105°C	105°C	70°C
Conductor	UL 758	CSA C22.2 No.210	EN60228
Flame rating	VW-1	FT1	EN50264-2-1



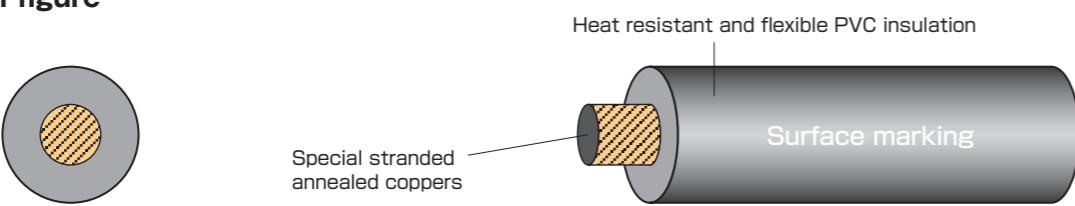
▶ Application

- 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.
- Drag 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.(TUV recognition goods) (Certificate of TÜV No.J2050493)

▶ Feature

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

▶ Construction figure



▶ Surface marking

E67647 AWM 1015 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

Black, white, red, blue and Y/G.

※Y/G show the core with yellow line on the green color insulation (30~50%).

▶ Construction table

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	14(2.11mm ²)	7/60/0.08 (7/60/3.2mil)	2.07 (81mil)	0.150	3.8	20(30)	less than 8.62	more than 50	2000	35(*28)
1C	12(3.46mm ²)	7/63/0.10 (7/63/3.9mil)	2.65 (104mil)	0.173	4.4	31(46)	less than 5.43	more than 50	2000	48(*38)
1C	10(5.44 mm ²)	7/99/0.10 (7/99/3.9mil)	3.3 (130mil)	0.197	5.0	44(65)	less than 3.30	more than 50	2000	66(*52)

※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

Rotary bending	Bending	U-shaped turn-back	90° bending	Twist	Move bending	Examination's time:
C	A	A	C	Straight Bending	C	A= More than 10 million times B= More than 5 million times C= More than 3 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