

SUNLIGHT ECO120 LF

The environment type flexible cable for electrical power supply

- Heat resistance ★★★★★
 - Oil resistance ★★
 - Noise resistance ★
 - Flame resistance ★★
 - Flexibility ★★
 - non-migratory ★★★★★
 - Transport property ★★
- ※ The characteristic is an aim.



Certification	Electrical Appliance and Material Safety
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment
Official symbol	Flame resistant cross linked polyolefin Flexible cable
Voltage rating	600V
Temperature rating	90°C
Conductor	JIS C 3152
Flame rating	JIS C 3005-4.26.2-b)

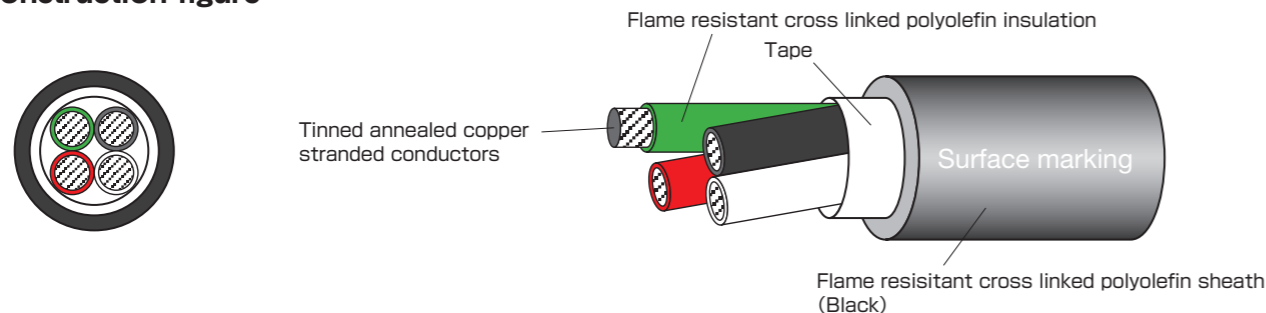
> Application

- Power supply circuit of the mobile electrical machinery and apparatus not higher than 600V.
- Corresponds to halogen-free requirement.
- Rated voltage:600V. Temp:90°C.

> Feature

- Non-halogen flame-resistant cross-linked polyolefin for insulation and sheath.
- Halogen-free, low smoke evolution.
- Heat resistance 90 °C (ability UL105 °C).
- Cold -50°C.
- Conform to Electrical Appliance and Material Safety Law.

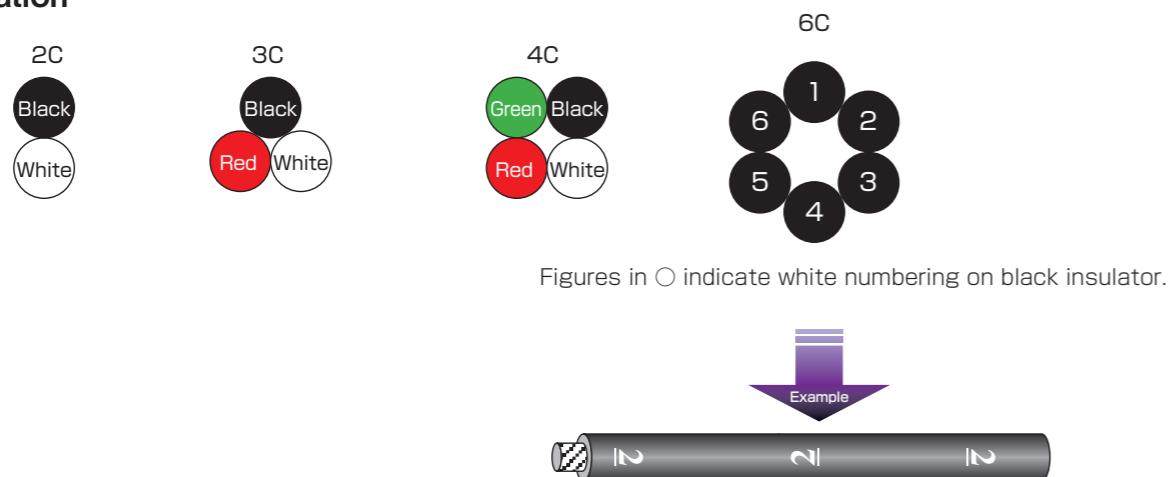
> Construction figure



> Surface marking



> Identification



> Construction table

No. of cores	Conductor			Flame resistant cross linked polyolefin insulation		Flame resistant cross linked polyolefin 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.)	
2C	0.75mm ²	30/0.18 (30/7.1mil)	1.1 (43mil)	0.106	2.7	0.354	9.0	57(85)	less than 26.6	more than 500	3000	17
3C						0.370	9.4	67(100)				
4C						0.398	10.1	81(120)				
6C						0.476	12.1	111(165)				
2C	1.25mm ²	50/0.18 (50/7.1mil)	1.5 (59mil)	0.122	3.1	0.386	9.8	71(105)	less than 16.0	more than 500	3000	23
3C						0.413	10.5	87(130)				
4C						0.445	11.3	104(155)				
6C						0.524	13.3	144(215)				
2C	2.0mm ²	37/0.26 (37/10.2mil)	1.8 (71mil)	0.134	3.4	0.417	10.6	87(130)	less than 10.2	more than 500	3000	30
3C						0.437	11.1	108(160)				
4C						0.480	12.2	131(195)				
6C						0.567	14.4	185(275)				
2C	3.5mm ²	45/0.32 (45/12.6mil)	2.5 (98mil)	0.161	4.1	0.480	12.2	124(185)	less than 5.54	more than 500	3000	43
3C						0.504	12.8	155(230)				
4C						0.555	14.1	195(290)				
6C						0.657	16.7	279(415)				
2C	5.5mm ²	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	0.567	14.4	178(265)	less than 3.56	more than 500	3000	57
3C						0.598	15.2	225(335)				
4C						0.657	16.7	282(420)				

> 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.
- Please multiply the following correction coefficient by the ambient temperature.

● Adjustment factors (at ambient temperature)

Ambient temperature (°C)	30	40	50	60	70	80	90	100
Adjustment factors	1.00	0.91	0.82	0.71	0.58	0.41	-	-

> Standard sales length

100m
(Sale by cutting short length is available.)