

# 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.

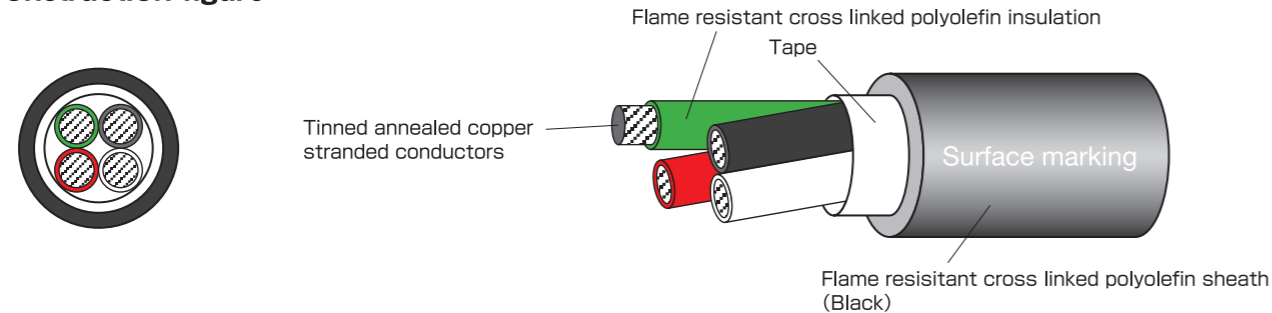
### Feature

- 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 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 <sup>2</sup>	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)				14
4C						0.398	10.1	81(120)				13
6C	1.25mm <sup>2</sup>	50/0.18 (50/7.1mil)	1.5 (59mil)	0.122	3.1	0.476	12.1	111(165)	less than 16.0	more than 500	3000	11
2C						0.386	9.8	71(105)				23
3C						0.413	10.5	87(130)				19
4C	2.0mm <sup>2</sup>	37/0.26 (37/10.2mil)	1.8 (71mil)	0.134	3.4	0.445	11.3	104(155)	less than 10.2	more than 500	3000	17
6C						0.524	13.3	144(215)				15
2C						0.417	10.6	87(130)				30
3C	3.5mm <sup>2</sup>	45/0.32 (45/12.6mil)	2.5 (98mil)	0.161	4.1	0.437	11.1	108(160)	less than 5.54	more than 500	3000	25
4C						0.480	12.2	131(195)				22
6C						0.567	14.4	185(275)				20
2C	5.5mm <sup>2</sup>	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	0.480	12.2	124(185)	less than 3.56	more than 500	3000	43
3C						0.504	12.8	155(230)				36
4C						0.555	14.1	195(290)				33
6C	5.5mm <sup>2</sup>	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	0.657	16.7	279(415)	less than 3.56	more than 500	3000	29
2C						0.567	14.4	178(265)				57
3C						0.598	15.2	225(335)				48
4C	5.5mm <sup>2</sup>	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	0.657	16.7	282(420)	less than 3.56	more than 500	3000	43

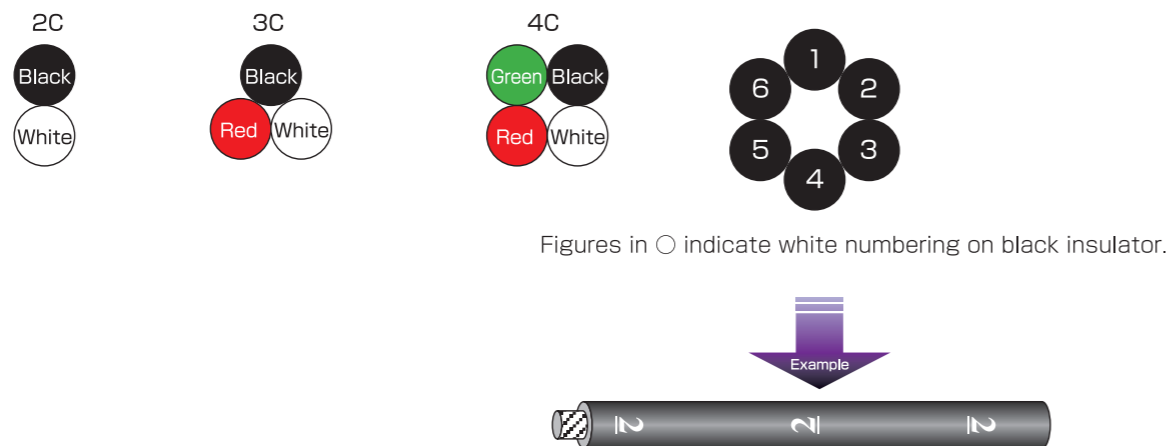
### Construction figure



### Surface marking



### Identification



### 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.)