

Environment type cable (non-halogen)

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.

>>> Meeting standard



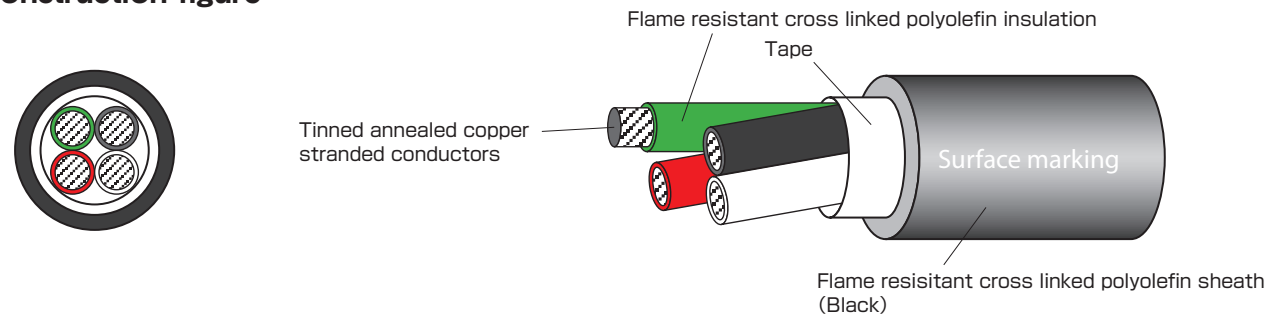
> Application

- 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.

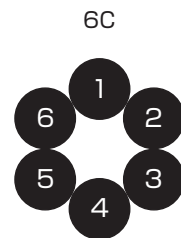
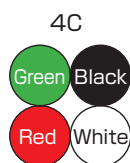
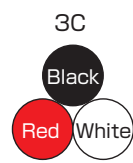
> Construction figure



> Surface marking



> Identification



Figures in ○ indicate white numbering on black insulator.



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)

> 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	1.25mm ²	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)				
3C						0.413	10.5	87(130)				
4C	2.0mm ²	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	18
6C						0.524	13.3	144(215)				
2C						0.417	10.6	87(130)				
3C	3.5mm ²	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	26
4C						0.480	12.2	131(195)				
6C						0.567	14.4	185(275)				
2C	5.5mm ²	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	20
3C						0.504	12.8	155(230)				
4C						0.555	14.1	195(290)				
6C						0.657	16.7	279(415)				29
2C						0.567	14.4	178(265)				58
3C						0.598	15.2	225(335)				49
4C						0.657	16.7	282(420)				45

> 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 JCSO168.
- 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.)