

SUNLIGHT 6SX LF

PVC insulated oil flexible cable
for electrical power supply(with shield)

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

>>> Meeting standard



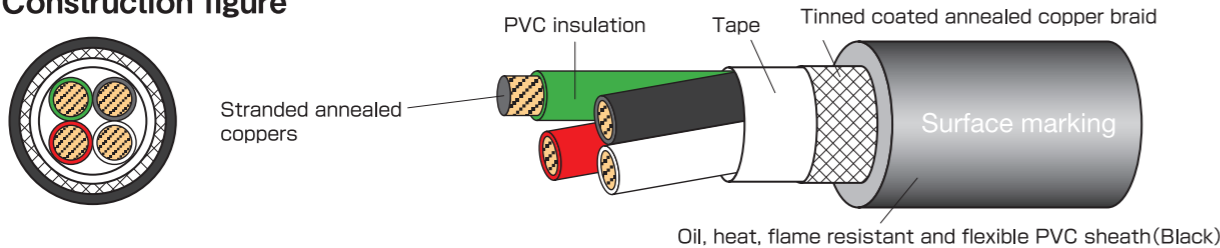
> Application

- Environmental type cable as machine tools, construction machinery, applications under harsh conditions, such as a robot power circuit not higher than 600V .
- Oil, flexibility, use of shielded.
Rated voltage:600V. Temp:60℃.

> Feature

- Oil, heat, flame retardant and soft PVC for sheath.
- Sheath material is non-migratory against ABS and PS resin.
- Chemical, water, abrasion, weather, light, cold resistance PVC for sheath.
- Flame resisting : UL VW-1.
- Conform to Electrical Appliance and Material Safety Law.

> Construction figure



> Surface marking

(1)7 cores or less



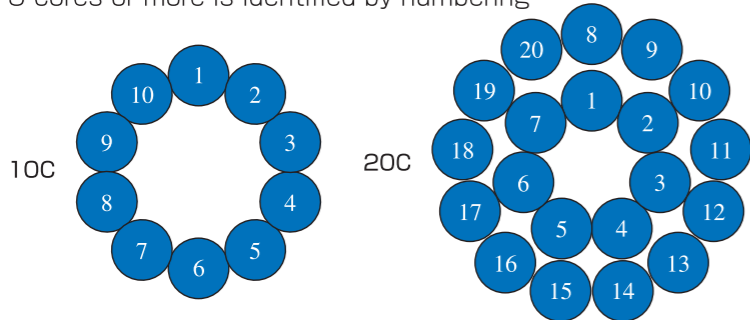
(2)8 cores or more



> Identification



5 cores or more is identified by numbering



Figures in ○ indicate white numbering on blue insulator.



Certification	Electrical Appliance and Material Safety
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment
Official symbol	VCT
Voltage rating	600V
Temperature rating	60℃
Conductor	JIS C 3102
Flame rating	JIS C 3005-4.26.2-b)

> Construction table

No. of cores	Conductor			PVC insulation		Oil heat flame-resistant flexible PVC 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℃)	Insulation resistance (MΩkm20℃)	Electrical strength (V/1min.)	
2C						0.378	9.6	74(110)				12
3C						0.394	10.0	87(130)				10
4C						0.429	10.9	104(155)				9.7
6C						0.504	12.8	141(210)				8.5
8C	0.75mm	30/0.18 (30/7.1mil)	1.1 (43mil)	0.106	2.7	0.579	14.7	181(270)	less than 25.1	more than 50	2000	7.9
10C						0.654	16.6	228(340)				7.4
12C						0.646	16.4	239(355)				6.8
20C						0.783	19.9	356(530)				5.7
2C						0.417	10.6	94(140)				16
3C						0.437	11.1	111(165)				14
4C						0.480	12.2	134(200)				13
5C						0.516	13.1	158(235)				12
6C						0.559	14.2	185(275)				11
7C	1.25mm	50/0.18 (50/7.1mil)	1.5 (59mil)	0.122	3.1	0.598	15.2	212(315)	less than 15.1	more than 50	2000	11
8C						0.646	16.4	239(355)				10
10C						0.728	18.5	296(440)				9.9
12C						0.720	18.3	312(465)				9.1
16C						0.795	20.2	386(575)				8.2
20C						0.882	22.4	474(705)				7.7
30C						1.035	26.3	669(995)				6.7
2C						0.441	11.2	108(160)				21
3C						0.465	11.8	134(200)				18
4C						0.508	12.9	165(245)				16
6C						0.598	15.2	228(340)				14
8C	2.0mm	37/0.26 (37/10.2mil)	1.8 (71mil)	0.134	3.4	0.697	17.7	299(445)	less than 9.79	more than 50	2000	13
10C						0.787	20.0	373(555)				12
12C						0.776	19.7	390(580)				11
20C						0.953	24.2	608(905)				9.8
30C						1.118	28.4	853(1270)				8.5
2C						0.508	12.9	155(230)				31
3C	3.5mm	45/0.32 (45/12.6mil)	2.5 (98mil)	0.161	4.1	0.531	13.5	188(280)	less than 5.24	more than 40	2000	26
4C						0.587	14.9	239(355)				24
2C						0.598	15.2	218(325)				41
3C	5.5mm	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	0.638	16.2	276(410)	less than 3.37	more than 40	2000	35
4C						0.697	17.7	346(515)				31
2C						0.693	17.6	292(435)				51
3C	8.0mm	50/0.45 (50/17.7mil)	3.7 (146mil)	0.240	6.1	0.728	18.5	366(545)	less than 2.39	more than 40	2000	43
4C						0.799	20.3	460(685)				39
3C	14mm	88/0.45 (88/17.7mil)	4.9 (193mil)	0.303	7.7	0.890	22.6	578(860)	less than 1.36	more than 40	2000	61
4C						0.976	24.8	712(1060)				55
3C	22mm	7/20/0.45 (7/20/17.7mil)	6.8 (268mil)	0.394	10.0	1.110	28.2	894(1330)	less than 0.869	more than 30	2000	83
4C						1.224	31.1	1136(1690)				74
3C	38mm	7/34/0.45 (7/34/17.7mil)	8.8 (346mil)	0.488	12.4	1.350	34.3	1398(2080)	less than 0.511	more than 30	2500	110
4C						1.504	38.2	1814(2700)				100

Note:Six times of outer diameter is needed when you bend cables, and more diameter is needed when you bend cables repeatedly by cable reel, curtain, etc.

> Allowable Ampacity

·The allowable ampacity of this catalog is a value at one in the air construction and the ambient temperature 30℃.

·Allowable ampacity is calculated based on JCS0168.

·Please multiply the following correction coefficient by the ambient temperature.

●Adjustment factors(at ambient temperature)

Ambient temperature(℃)	30	35	40	45	50	55	60	70	80	90	100
Adjustment factors	1.00	0.91	0.82	0.71	0.58	0.41	—	—	—	—	—

> Oil resistance

Insulating oil	Lubricating oil	Cutting oil I	Cutting oil II	Hydraulic oil	Grease
A	A	B	B	B	B

※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
(The cut cable is available.)