

VCTF LF

Polyvinyl chloride insulated flexible cords

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

JIS C 3306 conformance



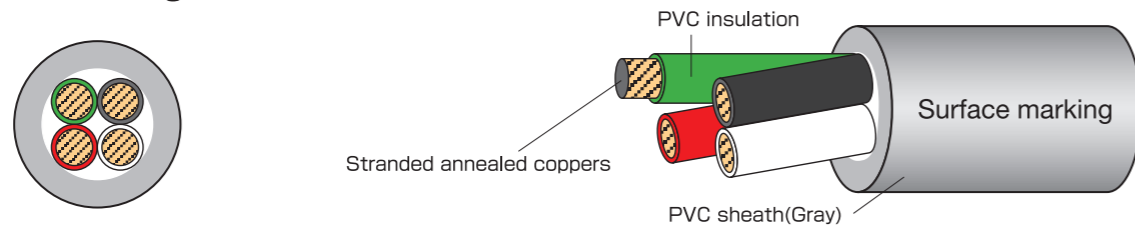
Application

- Small electric appliances of a.c. 300V or under principally for indoor service.
- Rated voltage:300V. Temp:60°C.

Feature

- Easy identification by insulation multicolor.
- Flexibility, Processing work efficiency.
- 0.75mm²~2mm², 2C~4C cords conform to JIS C 3306.
- 0.75mm²~100mm² wires conform to Electrical Appliance and Material Safety Law. (0.3mm², 0.5mm² cords used in less than 100V out of Electrical Appliance and Material Safety Law)

Construction figure



※Cables with more than 10 cores : binder tape on cores.

Surface marking

(1) 0.3, 0.5mm² cables



(2) 0.75~2mm² 2~4 cores



(3) 0.75mm² or larger, except(2)



※Only surface marking displays LFV.

◇◇: Name of the registered conformity assessment body

Identification

2C: Black, White
3C: Black, Red, White
4C: Green, Black, Red, White
10C: Sky, Red, Green, Orange, White, Yellow, Gray, Blue, Brown
30C: White, Blue, Green, Black, Brown, Blue, White, Black, Brown, Blue, White, Black, Gray, Black, White, Green, White, Black, Gray, Black, White, Pink, Red, Orange, Sky, White, Black, Green, White, Black, White

● - The lower is color of the dot mark

No. of cores	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Color of insulation	Black	White	Red	Green	Yellow	Brown	Blue	Gray	Orange	Sky	Pink	B Green	White	Red	Green	Yellow	Brown
Color of dot mark	—	—	—	—	—	—	—	—	—	—	—	—	Black	Black	Black	Black	Black
No. of cores	18	19	20	21	22	23	24	25	26	27	28	29	30				
Color of insulation	Blue	Gray	Orange	Sky	Pink	B Green	Black	Red	Green	Brown	Blue	White	Yellow				
Color of dot mark	Black	Black	Black	Black	Black	Black	White	White	White	White	White	Blue	Blue				

Standard sales length

100m
Please contact us which sizes are available.

Certification	Electrical Appliance and Material Safety
Applicable standard	LawDepartmental order to determine a technical standard of the electrical equipment JIS C3306(2~4 cores, 0.75~2mm ²)
Official symbol	VCTF
Voltage rating	300V
Temperature rating	60°C
Conductor	JIS C 3102
Flame rating	JIS 3005-4.26.2-b)

Construction table

No. of cores	Conductor			PVC insulation		PVC sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)		
	Size (AWG) (mm ²)	Construction (Line/mm)	Outside diameter (mm)	Outside diameter (inch)	Outside diameter (mm)	Outside diameter approx.(inch)	Outside diameter approx.(mm)		Conductor resistance (Ω/km20°C)	Insulation resistance (MΩkm20°C)	Electrical strength (V/1min.)			
2C								0.181	4.6	19(29)		3.0		
3C								0.189	4.8	24(35)		3.0		
4C								0.205	5.2	27(40)		3.0		
5C								0.224	5.7	34(50)		3.0		
6C								0.240	6.1	40(60)		3.0		
7C								0.260	6.6	47(70)		3.0		
8C	0.3	12/0.18 (12/7.1mil)	0.7 (28mil)	0.059	1.5			0.307	7.8	50(75)	less than 62.9	more than 5	2000	3.0
10C								0.323	8.2	60(90)				3.0
12C								0.358	9.1	74(110)				3.0
16C								0.386	9.8	91(135)				2.9
20C								0.429	10.9	91(1365)				2.8
24C								0.465	11.8	131(195)				2.6
30C								0.228	5.8	30(45)				5.0
2C								0.240	6.1	37(55)				5.0
3C								0.260	6.6	44(65)				5.0
4C								0.280	7.1	54(80)				5.0
5C								0.303	7.7	64(95)				5.0
6C								0.327	8.3	74(110)				5.0
7C								0.386	9.8	84(125)				5.0
8C	0.5	20/0.18 (20/7.1mil)	0.9 (35mil)	0.075	1.9			0.398	10.1	94(140)	less than 37.8	more than 5	2000	4.9
10C								0.437	11.1	118(175)				4.4
12C								0.472	12.0	141(210)				4.1
16C								0.520	13.2	168(250)				3.9
20C								0.575	14.6	208(310)				3.6
24C								0.260	6.6	40(60)				7.0
30C								0.276	7.0	50(75)				7.0
2C								0.299	7.6	60(90)				7.0
3C								0.323	8.2	71(105)				7.0
4C								0.350	8.9	84(125)				7.0
5C								0.378	9.6	101(150)				7.0
6C								0.449	11.4	114(170)				6.9
7C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.091	2.3			0.465	11.8	131(195)	less than 25.1	more than 5	2000	6.4
8C								0.512	13.0	165(245)				5.8
10C								0.563	14.3	202(300)				5.4
12C								0.622	15.8	242(360)				5.1
16C								0.685	17.4	299(445)				4.8
20C								0.291	7.4	54(80)				12
24C								0.307	7.8	67(100)				12
30C								0.335	8.5	81(120)				12
2C								0.366	9.3	97(145)				11
3C								0.398	10.1	118(175)				11
4C								0.429	10.9	141(210)				10
5C								0.512	13.0	161(240)				9.4
6C	1.25	50/0.18 (50/7.1mil)	1.5 (59mil)	0.106	2.7			0.535	13.6	188(280)	less than 15.1	more than 5	2000	8.7
7C								0.594	15.1	239(355)				7.9
8C								0.654	16.6	292(435)				7.3
10C								0.720	18.3	349(520)				7.0
12C								0.791	20.1	433(645)				6.5
16C								0.315	8.0	67(100)				17
20C								0.335	8.5	84(125)				17
24C								0.362	9.2	104(155)				15
30C								0.398	10.1	128(190)				14
2C								0.433	11.0	151(225)				14
3C								0.469	11.9	185(275)				13
4C								0.567	14.4	218(325)	less than 9.79	more than 5	2000	12
5C								0.587	14.9	252(375)				12
6C								0.657	16.7	336(500)				11
7C								0.713	18.1	396(590)				10
8C								0.795	20.2	480(715)				9.4
10C								0.874	22.2	591(880)				9.0
12C								0.370	9.4	104(155)				8.3
16C								0.394	10.0	131(195)				30
20C								0.429	10.9	158(235)	less than 5.24	more than 5	2000	25
24C														23

※○:Indicates make-to-order product.

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	35	40	45	50	55	60
Adjustment factors	1.00	0.91	0.82	0.71	0.58	0.41	—