

# VCT LF

## 600V Grade polyvinyl chloride insulated and sheathed portable power cables

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

JIS C 3312 conformance



Certification	Electrical Appliance and Material Safety
Applicable standard	Law/Departmental order to determine a technical standard of the electrical equipment JIS C3312(0.75~14mm <sup>2</sup> )
Official symbol	VCT
Voltage rating	600V
Temperature rating	60°C
Conductor	JIS C 3102
Flame rating	JIS C 3005-4.26.2-b)

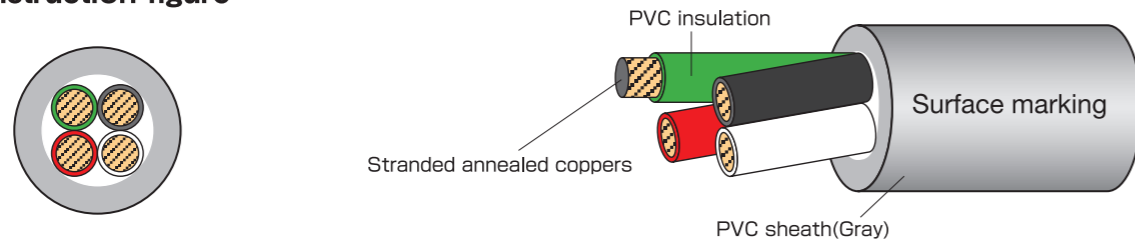
### Application

- Power supply circuit of the mobile electrical machinery and apparatus not higher than 600V.
- Rated voltage:600V. Temp:60°C.

### Feature

- Flexibility, Processing work efficiency.
- Easy identification by insulation multicolor.
- Flexibility, 8mm<sup>2</sup>~38mm<sup>2</sup> is, use the 0.32mm wire instead of 0.45mm conductor wire.
- Reference to JIS C 3312.
- Conform to Electrical Appliance and Material Safety Law.

### Construction figure



※Cables with more than 8 cores : binder tape on cores.

### Surface marking

(1) 7 cores or less



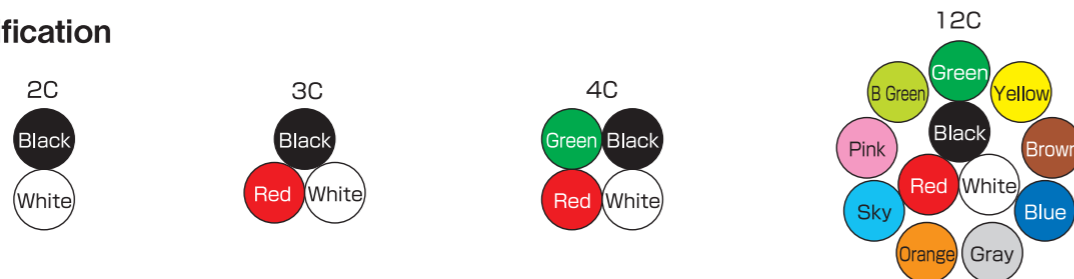
(2) 8 cores or more



※Only surface marking displays LFV.

◇◇ : Name of testing/inspection institution

### Identification



No. of cores	1	2	3	4	5	6	7	8	9	10	11	12
Color of insulation	Black	White	Red	Green	Yellow	Brown	Blue	Gray	Orange	Sky	Pink	B Green

### Standard sales length

100m  
Please contact us which sizes are available.

### Construction table

No. of cores	Conductor			PVC insulation		PVC sheath		Approx. weight (lbs/1000ft) (kg/km)	Electrical Characteristics			Allowable ampacity (A)
	Size (AWG) (mm <sup>2</sup> )	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						0.346	8.8	71(105)				12
3C						0.362	9.2	77(115)				10
4C						0.390	9.9	94(140)				9.0
○ 5C						0.429	10.9	111(165)				9.0
○ 6C	0.75	30/0.18 (30/7.1mil)	1.1 (43mil)	0.106	2.7	0.461	11.7	128(190)	less than 25.1	more than 50	3000	8.7
○ 7C						0.500	12.7	141(210)				8.2
○ 8C						0.583	14.8	178(265)				7.6
○ 10C						0.606	15.4	198(295)				7.2
○ 12C						0.378	9.6	87(130)				6.7
2C						0.398	10.1	101(150)				16
3C						0.437	11.1	121(180)				14
4C						0.480	12.2	148(220)				13
○ 5C						0.516	13.1	171(255)	less than 15.1	more than 50	3000	11
○ 6C	1.25	50/0.18 (50/7.1mil)	1.5 (59mil)	0.122	3.1	0.559	14.2	188(280)				11
○ 7C						0.654	16.6	235(350)				10
○ 8C						0.681	17.3	262(390)				9.8
○ 10C						0.409	10.4	108(160)				9.1
2C						0.429	10.9	124(185)				22
3C						0.465	11.8	148(220)				19
4C						0.512	13.0	181(270)				17
○ 5C						0.559	14.2	215(320)	less than 9.79	more than 50	3000	17
○ 6C	2	37/0.26 (37/10.2mil)	1.8 (71mil)	0.134	3.4	0.606	15.4	235(350)				15
○ 7C						0.709	18.0	302(450)				14
○ 8C						0.736	18.7	336(500)				13
○ 10C						0.465	11.8	144(215)				12
2C						0.496	12.6	178(265)				11
3C						0.547	13.9	222(330)				32
4C						0.594	15.1	265(395)				28
○ 5C						0.650	16.5	316(470)	less than 5.24	more than 40	3000	25
○ 6C	3.5	45/0.32 (45/12.6mil)	2.5 (98mil)	0.161	4.1	0.709	18.0	356(530)				21
○ 7C						0.835	21.2	457(680)				20
○ 8C						0.858	21.8	511(760)				19
○ 10C						0.559	14.2	215(320)				18
2C						0.591	15.0	259(385)				16
3C						0.650	16.5	323(480)				41
4C						0.717	18.2	393(585)				36
○ 5C						0.783	19.9	470(700)	less than 3.37	more than 40	3000	32
○ 6C	5.5	70/0.32 (70/12.6mil)	3.1 (122mil)	0.201	5.1	1.016	25.8	685(1020)				32
○ 7C						1.047	26.6	766(1140)				28
○ 8C						0.646	16.4	282(420)				26
○ 10C						0.689	17.5	349(520)				25
2C						0.760	19.3	430(640)				23
3C						0.787	20.0	444(660)				22
4C						0.843	21.4	558(830)	less than 2.39	more than 40	3000	21
○ 5C						0.929	23.6	685(1020)				51
2C	8	98/0.32 (98/12.6mil)	3.7 (146mil)	0.240	6.1	0.984	25.0	719(1070)				44
3C						1.051	26.7	900(1340)	less than 0.869	more than 30	3000	39
4C						1.169	29.7	1115(1660)				71
○ 2C	14	172/0.32 (172/12.6mil)	4.9 (193mil)	0.303	7.7	1.213	30.8	1115(1660)				62
3C						1.295	32.9	1404(2090)	less than 0.511	more than 30	3000	55
4C						1.441	36.6	1761(2620)				95
○ 2C	22	7/39/0.32 (7/39/12.6mil)	6.7 (264mil)	0.390	9.9	1.441	36.6	1761(2620)				83
3C						1.213	30.8	1115(1660)				74
4C						1.295	32.9	1404(2090)				130
○ 2C	38	7/67/0.32 (7/67/12.6mil)	8.8 (346mil)	0.488	12.4	1.441	36.6	1761(2620)				110
3C						1.441	36.6	1761(2620)				110
4C						1.441	36.6	1761(2620)				100

※○: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	—