

## Cord

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### ○ PVC Insulated Flexible Cord

- 60227 IEC 42 300/300V PVC Insulated Flexible Cord
- 60227 IEC 43 300/300V Heat Resistant PVC Insulated Flexible Cord
- 60227 IEC 52 300/300V Ordinary PVC Sheathed Flat Cord
- 60227 IEC 53 300/500V Ordinary PVC Sheathed Circular Cord
- 60227 IEC 56 300/300V Heat Resistant Ordinary PVC Sheathed Flat Cord
- 60227 IEC 57 300/500V Heat Resistant Ordinary PVC Sheathed Circular Cord

### ○ Rubber Insulated Flexible Cord

- 60245 IEC 53 300/500V Ordinary Rubber Sheathed Cord
- 60245 IEC 57 300/500V Ordinary Polychloroprene or Equivalent Synthetic Elastomerr Sheathed Cord
- 60245 IEC 66 450/750V Heavy Polychloroprene or Equivalent Synthetic Elastomerr Sheathed Cord
- 60245 IEC 89 300/500V Braided Flexible Rubber Cord

# PVC Insulated Flexible Cord

## 300/500V Ordinary PVC Sheathed Circular Cord

**Use**

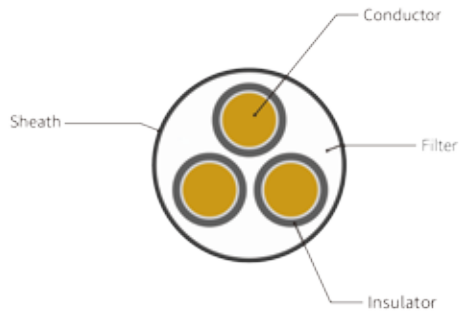
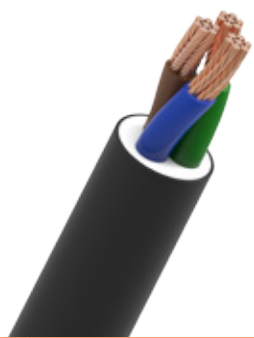
Basically, the cord is used for small electric appliances up to and including AC 300/500V such as electrical, electronic, acoustic and lighting in the inside of a house.

**Structure**

Maximum allowable voltage 300/500V, maximum allowable temperature of 70°C identification of cores

The number of cores	Colors used for cores
1 Core	Blue
2 Cores	Blue, Brown
3 Cores	Green / Yellow, Blue, Brown
4 Cores	Green / Yellow, Blue, Brown, Black
5 Cores	Green / Yellow, Blue, Brown, Black, Gray

\* Standards : KS C IEC 60227-5



Symbol	No. of Cores	Conductor		Thickness of Insulator	Thickness of Sheath	Overall Diameter (Approx.)		Max. Conductor Resistance at 20°C		Insulation Resistance	
		Nominal Cross Sectional Area	Conductor Class			Min. Low	Max. Low	Copper	Tin-Coated Copper	70°C	90°C
VSF	1	0.5	5	0.6	—	2.1	2.5	39.0	40.1	0.013	—
	1	0.75	5	0.6	—	2.2	2.7	26.0	26.7	0.011	—
	1	1.0	5	0.6	—	2.4	2.8	19.5	20.0	0.010	—
HVSF	1	0.5	5	0.6	—	2.1	2.5	39.0	40.1	—	0.013
	1	0.75	5	0.6	—	2.2	2.7	26.0	26.7	—	0.012
	1	1.0	5	0.6	—	2.4	2.8	19.5	20.0	—	0.010
	1	1.5	5	0.7	—	2.8	3.4	13.3	13.7	—	0.009
	1	2.5	5	0.8	—	3.4	4.1	7.98	8.21	—	0.009

Symbol	No. of Cores	Conductor		Thickness of Insulator	Thickness of Sheath	Overall Diameter (Approx.)		Max. Conductor Resistance at 20°C		Insulation Resistance	
		Nominal Cross Sectional Area	Conductor Class			Min. Low	Max. Low	Copper	Tin-Coated Copper	70°C	90°C
—	C	mm <sup>2</sup>	—	mm	mm	mm	mm	Ω/km	Ω/km	MΩ/km	MΩ/km
VCTF	2	0.75	5	0.6	0.8	5.7	7.2	26.0	26.7	0.011	—
	2	1.0	5	0.6	0.8	5.9	7.5	19.5	20.0	0.010	—
	2	1.5	5	0.7	0.8	6.8	8.6	13.3	13.7	0.010	—
	2	2.5	5	0.8	1.0	8.4	10.6	7.98	8.21	0.009	—
	3	0.75	5	0.6	0.8	6.0	7.6	26.0	26.7	0.011	—
	3	1.0	5	0.6	0.8	6.3	8.0	19.5	20.0	0.010	—
	3	1.5	5	0.7	0.9	7.4	9.4	13.3	13.7	0.010	—
	3	2.55	5	0.8	1.1	9.2	11.4	7.98	8.21	0.009	—
	4	0.75	5	0.6	0.8	6.6	8.3	26.0	26.7	0.011	—
	4	1.0	5	0.6	0.9	7.1	9.0	19.5	20.0	0.010	—
	4	1.5	5	0.7	1.0	8.4	10.5	13.3	13.7	0.010	—
	4	2.5	5	0.8	1.1	10.1	12.5	7.98	8.21	0.009	—
	5	0.75	5	0.6	0.9	7.4	9.3	26.0	26.7	0.011	—
	5	1.0	5	0.6	0.9	7.8	9.8	19.5	20.0	0.010	—
	5	1.5	5	0.7	1.1	9.3	11.6	13.3	13.7	0.010	—
5	2.5	5	0.8	1.2	11.2	13.9	7.98	8.21	0.009	—	
VCTFK	2	0.75	5	0.6	0.8	3.7X6.0	4.5X7.2	26.0	26.7	0.011	—
HVCTF	2	0.75	5	0.6	0.8	5.7	7.2	26.0	26.7	—	0.011
	2	1.0	5	0.6	0.8	5.9	7.5	19.5	20.0	—	0.010
	2	1.5	5	0.7	0.8	6.8	8.6	13.3	13.7	—	0.010
	2	2.5	5	0.8	1.0	8.4	10.6	7.98	8.21	—	0.009
	3	0.75	5	0.6	0.8	6.0	7.6	26.0	26.7	—	0.011
	3	1.0	5	0.6	0.8	6.3	8.0	19.5	20.0	—	0.010
	3	1.5	5	0.7	0.9	7.4	9.4	13.3	13.7	—	0.010
	3	2.5	5	0.8	1.1	9.2	11.4	7.98	8.21	—	0.009
	4	0.75	5	0.6	0.8	6.6	8.3	26.0	26.7	—	0.011
	4	1.0	5	0.6	0.9	7.1	9.0	19.5	20.0	—	0.010
	4	1.5	5	0.7	1.0	8.4	10.5	13.3	13.7	—	0.010
	4	2.5	5	0.8	1.1	10.1	12.5	7.98	8.21	—	0.009
	5	0.75	5	0.6	0.9	7.4	9.3	26.0	26.7	—	0.011
	5	1.0	5	0.6	0.9	7.8	9.8	19.5	20.0	—	0.010
	5	1.5	5	0.7	1.1	9.3	11.6	13.3	13.7	—	0.010
5	2.5	5	0.8	1.2	11.2	13.9	7.98	8.21	—	0.009	
HVCTFK	2	0.75	5	0.6	0.8	3.7X6.0	4.5X7.2	26.0	26.7	—	0.011

- V S F : 60227 IEC 42 300/300V Single-core non-sheathed cable with Flexible conductor for internal wiring for conductor temperature of 70°C (PVC Insulated Flexible Wire)
- HVSF : 60227 IEC 43 300/300V Single-core non-sheathed cable with Flexible conductor for internal wiring for conductor temperature of 90°C (Heat Resistant PVC Insulated Flexible Wire)
- VCTF : 60227 IEC 53 300/300V Universal PVC sheath cord 70°C (Ordinary PVC Sheathed Circular Cord)
- VCTFK : 60227 IEC 52 300/300V Universal PVC sheath cord 70°C (Ordinary PVC Sheathed Flat Cord)
- HVCTF : 60227 IEC 57 300/300V Heat Resistant universal PVC Sheath cord 90°C (Heat Resistant Ordinary PVC Sheathed Circular Cord)
- HVCTFK : 60227 IEC 56 300/300V Heat Resistant universal PVC Sheath cord 90°C (Heat Resistant Ordinary PVC Sheathed Flat Cord)

## Rubber Insulated Flexible Cord

### Use

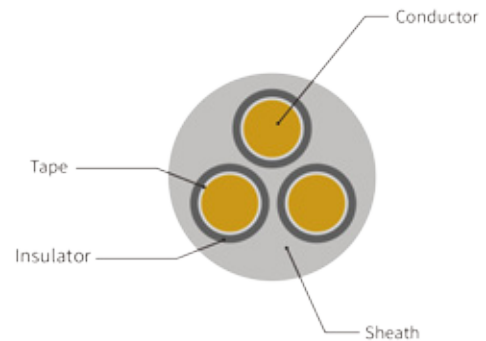
Basically, the cord is used for small electric appliances up to and including AC 300/500V such as electrical, electronic, acoustic and lighting in the inside of a house.

### Structure

Maximum allowable voltage 450/750V, maximum allowable temperature 60°C identification of cores

The number of cores	Colors used for cores
1 Core	Blue
2 Cores	Blue, Brown
3 Cores	Green / Yellow, Blue, Brown
4 Cores	Green / Yellow, Blue, Brown, Black
5 Cores	Green / Yellow, Blue, Brown, Black, Gray

\* Standards : KS C IEC 60246-4



## 60245 IEC 53 300/500V Ordinary Rubber Sheathed Cord

Nominal Cross Sectional Area & No. of Cores	Thickness of Insulator	Thickness of Sheath	Overall Diameter (Approx.)			Cable Weight
			Min. Low	Avg. Low	Max. Low	
mm <sup>2</sup>	mm	mm	mm	mm	mm	kg/km
2 X 0,75	0,6	0,8	6,0	7,1	8,2	58
2 X 1	0,6	0,9	6,6	7,7	8,8	69
2 X 1,5	0,8	1,0	8,0	9,8	10,5	107
2 X 2,5	0,9	1,1	9,5	11,0	12,5	155
3 X 0,75	0,6	0,9	6,5	7,7	8,8	72
3 X 1	0,6	0,9	7,0	8,1	9,2	82
3 X 1,5	0,8	1,0	8,6	9,8	11,0	127
3 X 2,5	0,9	1,0	10,0	11,5	13,0	192
4 X 0,75	0,6	0,9	7,1	8,4	9,6	87
4 X 1	0,6	0,9	7,6	8,8	10,0	103
4 X 1,5	0,8	1,1	9,6	11,1	12,5	158
4 X 2,5	0,9	1,2	11,0	12,5	14,0	233
5 X 0,75	0,6	1,0	8,0	9,5	11,0	109
5 X 1	0,6	1,0	8,5	10,0	11,5	122
5 X 1,5	0,8	1,1	10,5	12,0	13,5	193
5 X 2,5	0,9	1,3	12,5	14,0	15,5	285

## 60245 IEC 57 300/500V Ordinary Polychloroprene or Equivalent Synthetic Elastomerr Sheathed Cord

Nominal Cross Sectional Area & No. of Cores	Thickness of Insulator	Thickness of Sheath	Overall Diameter (Approx.)			Cable Weight
			Min. Low	Avg. Low	Max. Low	
mm <sup>2</sup>	mm	mm	mm	mm	mm	kg/km
2 X 0.75*	0.6	0.8	6.0	7.1	8.2	58
2 X 1*	0.6	0.9	6.6	7.7	8.8	69
2 X 1.5	0.8	1.0	8.0	9.8	10.5	107
2 X 2.5	0.9	1.1	9.5	11.0	12.5	155
3 X 0.75*	0.6	0.9	6.5	7.7	8.8	72
3 X 1*	0.6	0.9	7.0	8.1	9.2	82
3 X 1.5	0.8	1.0	8.6	9.8	11.0	127
3 X 2.5	0.9	1.0	10.0	11.5	13.0	192
4 X 0.75	0.6	0.9	7.1	8.4	9.6	87
4 X 1	0.6	0.9	7.6	8.8	10.0	103
4 X 1.5	0.8	1.1	9.6	11.1	12.5	158
4 X 2.5	0.9	1.2	11.0	12.5	14.0	233
5 X 0.75	0.6	1.0	8.0	9.5	11.0	109
5 X 1	0.6	1.0	8.5	10.0	11.5	122
5 X 1.5	0.8	1.1	10.5	12.0	13.5	193
5 X 2.5	0.9	1.3	12.5	14.0	15.5	285

\*German VDE Standard Certification(H05RN-F) \*CE Standard Certification

## 60245 IEC 89 300/500V Braided Flexible Rubber Cord

Nominal Cross Sectional Area & No. of Cores	Thickness of Insulator	Overall Diameter (Approx.)		
		Min. Low	Avg. Low	Max. Low
mm <sup>2</sup>	mm	mm	mm	mm
1 X 0.75	0.8	—	—	5.4
1 X 1.5	0.8	—	—	6.2
2 X 1.5	0.8	5.0 X 13.0	5.5 X 13.5	6.0 X 14.0
2 X 0.75	0.8	5.5	—	7.2
2 X 1.0	0.8	5.7	—	7.6
2 X 1.5	0.8	6.2	—	8.2
3 X 0.75	0.8	5.9	—	7.7
3 X 1	0.8	6.2	—	8.1
3 X 1.5	0.8	6.7	—	8.8

## 60245 IEC 66 450/750V Heavy Polychloroprene or Equivalent Synthetic Elastomerr Sheathed Cord

Nominal Cross Sectional Area & No. of Cores	Thickness of Insulator	Thickness of Sheath			Overall Diameter (Approx.)			Cable Weight
		One layer	Two layer		Min. Low	Avg. Low	Max. Low	
			Inner layer	Outer layer				
mm <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km	
1 X 1,5	0,8	1,4	—	—	5,8	6,5	7,2	48
1 X 2,5	0,9	1,4	—	—	6,4	7,2	8,0	68
1 X 4	1,0	1,5	—	—	7,4	8,2	9,0	94
1 X 6	1,0	1,6	—	—	8,0	9,5	11,0	120
1 X 10	1,2	1,8	—	—	9,8	11,2	12,5	193
1 X 16	1,2	1,9	—	—	11,0	12,8	14,5	269
1 X 25	1,4	2,0	—	—	12,5	14,5	16,5	399
1 X 35	1,4	2,2	—	—	14,0	16,3	18,5	520
1 X 50	1,6	2,4	—	—	16,5	18,8	21,0	725
1 X 70	1,6	2,6	—	—	18,5	21,0	23,5	974
1 X 95	1,8	2,8	—	—	21,0	23,5	26,0	1,263
1 X 120	1,8	3,0	—	—	23,5	26,0	28,5	1,519
1 X 150	2,0	3,2	—	—	26,0	28,8	31,5	1,906
1 X 185	2,2	3,4	—	—	27,5	31,0	34,5	2,344
1 X 240	2,4	3,5	—	—	30,5	34,3	38,0	3,122
1 X 300	2,6	3,6	—	—	33,5	37,7	41,9	3,849
1 X 400	2,8	3,8	—	—	37,5	42,0	46,5	5,124
2 X 1*	0,8	1,3	—	—	8,0	9,3	10,5	94
2 X 1,5*	0,8	1,5	—	—	9,0	10,3	11,5	135
2 X 2,5*	0,9	1,7	—	—	10,5	12,0	13,5	193
2 X 4*	1,0	1,8	—	—	12,0	13,5	15,0	269
2 X 6*	1,0	2,0	—	—	13,5	16,0	18,5	344
2 X 10	1,2	3,1	—	—	18,5	21,3	24,0	579
2 X 16	1,2	3,3	1,3	2,0	21,0	24,3	27,5	797
2 X 25	1,4	3,6	1,4	2,2	25,0	28,3	31,5	1,182
3 X 1	0,8	1,4	—	—	8,6	10,1	11,5	114
3 X 1,5*	0,8	1,6	—	—	9,6	11,1	12,5	160
3 X 2,5*	0,9	1,8	—	—	11,5	13,0	14,5	231
3 X 4*	1,0	1,9	—	—	13,0	14,5	16,0	325
3 X 6*	1,0	2,1	—	—	14,5	17,3	20,0	421
3 X 10	1,2	3,3	—	—	20,0	22,8	25,5	704
3 X 16	1,2	3,5	1,4	2,1	22,5	26,0	29,5	980
3 X 25	1,4	3,8	1,5	2,3	26,5	30,3	34,0	146
3 X 35	1,4	4,1	1,6	2,5	29,5	33,8	38,0	1,953
3 X 50	1,6	4,5	1,8	2,7	34,5	39,3	44,0	2,672
3 X 70	1,6	4,8	1,9	2,9	39,0	44,3	49,5	3,585
3 X 95	1,8	5,3	2,1	3,2	44,0	49,0	54,0	4,682
4 X 1	0,8	1,5	—	—	9,6	11,1	12,5	139
4 X 1,5*	0,8	1,7	—	—	10,5	12,0	13,5	196
4 X 2,5*	0,9	1,9	—	—	12,5	14,0	15,5	285
4 X 4*	1,0	2,0	—	—	14,5	16,3	18,0	404
4 X 6*	1,0	2,3	—	—	16,5	19,3	22,0	525
4 X 10	1,2	3,4	—	—	21,5	24,8	28,0	879
4 X 16	1,2	3,6	1,4	2,2	24,5	28,3	32,0	1,229
4 X 25	1,4	4,1	1,6	2,5	29,5	33,5	37,5	1,716
4 X 35	1,4	4,4	1,7	2,7	33,0	37,5	42,0	2,405
4 X 50	1,6	4,8	1,9	2,9	38,0	43,3	48,5	3,379
4 X 70	1,6	5,2	2,0	3,2	43,0	48,8	54,5	4,544
4 X 95	1,8	5,9	2,3	3,6	49,0	54,8	60,5	5,935

\* German VDE Standard Certification(H07RN-F) \* CE Standard Certification