

# 전선의 허용 전류

Nov. 2011



## 최대 허용 전류(A)

구분 : PVC 절연(최고온도: 70°C)

기호 : VCT

도체 단면적 (mm <sup>2</sup> )	선심수 (EA)	온도 보정 계수를 적용한 최대 허용전류(A)										
		10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
1.5	1	21.4	20.5	19.6	18.6	<b>17.5</b>	16.5	15.2	13.8	12.4	10.7	8.8
	2	17.1	16.4	15.7	14.8	<b>14.0</b>	13.2	12.2	11.1	9.9	8.5	7.0
	3	14.9	14.3	13.7	13.0	<b>12.3</b>	11.5	10.7	9.7	8.7	7.5	6.1
	4	13.9	13.3	12.7	12.1	<b>11.4</b>	10.7	9.9	9.0	8.1	6.9	5.7
2.5	1	29.3	28.1	26.9	25.4	<b>24.0</b>	22.6	20.9	19.0	17.0	14.6	12.0
	2	23.4	22.5	21.5	20.4	<b>19.2</b>	18.0	16.7	15.2	13.6	11.7	9.6
	3	20.5	19.7	18.8	17.8	<b>16.8</b>	15.8	14.6	13.3	11.9	10.2	8.4
	4	19.0	18.3	17.5	16.5	<b>15.6</b>	14.7	13.6	12.3	11.1	9.5	7.8
4	1	39.0	37.4	35.8	33.9	<b>32.0</b>	30.1	27.8	25.3	22.7	19.5	16.0
	2	31.2	30.0	28.7	27.1	<b>25.6</b>	24.1	22.3	20.2	18.2	15.6	12.8
	3	27.3	26.2	25.1	23.7	<b>22.4</b>	21.1	19.5	17.7	15.9	13.7	11.2
	4	25.4	24.3	23.3	22.0	<b>20.8</b>	19.6	18.1	16.4	14.8	12.7	10.4
6	1	50.0	48.0	45.9	43.5	<b>41.0</b>	38.5	35.7	32.4	29.1	25.0	20.5
	2	40.0	38.4	36.7	34.8	<b>32.8</b>	30.8	28.5	25.9	23.3	20.0	16.4
	3	35.0	33.6	32.1	30.4	<b>28.7</b>	27.0	25.0	22.7	20.4	17.5	14.4
	4	32.5	31.2	29.8	28.2	<b>26.7</b>	25.1	23.2	21.1	18.9	16.3	13.3
10	1	69.5	66.7	63.8	60.4	<b>57.0</b>	53.6	49.6	45.0	40.5	34.8	28.5
	2	55.6	53.4	51.1	48.3	<b>45.6</b>	42.9	39.7	36.0	32.4	27.8	22.8
	3	48.7	46.7	44.7	42.3	<b>39.9</b>	37.5	34.7	31.5	28.3	24.3	20.0
	4	45.2	43.3	41.5	39.3	<b>37.1</b>	34.8	32.2	29.3	26.3	22.6	18.5

## 최대 허용 전류(A)

구분 : PVC 절연(최고온도: 70°C)

기호 : VCT

도체 단면적 (mm <sup>2</sup> )	선심수 (EA)	온도 보정 계수를 적용한 최대 허용전류(A)										
		10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
16	1	92.7	88.9	85.1	80.6	<b>76.0</b>	71.4	66.1	60.0	54.0	46.4	38.0
	2	74.2	71.1	68.1	64.4	<b>60.8</b>	57.2	52.9	48.0	43.2	37.1	30.4
	3	64.9	62.2	59.6	56.4	<b>53.2</b>	50.0	46.3	42.0	37.8	32.5	26.6
	4	60.3	57.8	55.3	52.4	<b>49.4</b>	46.4	43.0	39.0	35.1	30.1	24.7
25	1	123.2	118.2	113.1	107.1	<b>101.0</b>	94.9	87.9	79.8	71.7	61.6	50.5
	2	98.6	94.5	90.5	85.6	<b>80.8</b>	76.0	70.3	63.8	57.4	49.3	40.4
	3	86.3	82.7	79.2	74.9	<b>70.7</b>	66.5	61.5	55.9	50.2	43.1	35.4
	4	80.1	76.8	73.5	69.6	<b>65.7</b>	61.7	57.1	51.9	46.6	40.0	32.8
35	1	152.5	146.3	140.0	132.5	<b>125.0</b>	117.5	108.8	98.8	88.8	76.3	62.5
	2	122.0	117.0	112.0	106.0	<b>100.0</b>	94.0	87.0	79.0	71.0	61.0	50.0
	3	106.8	102.4	98.0	92.8	<b>87.5</b>	82.3	76.1	69.1	62.1	53.4	43.8
	4	99.1	95.1	91.0	86.1	<b>81.3</b>	76.4	70.7	64.2	57.7	49.6	40.6
50	1	184.2	176.7	169.1	160.1	<b>151.0</b>	141.9	131.4	119.3	107.2	92.1	75.5
	2	147.4	141.3	135.3	128.0	<b>120.8</b>	113.6	105.1	95.4	85.8	73.7	60.4
	3	129.0	123.7	118.4	112.0	<b>105.7</b>	99.4	92.0	83.5	75.0	64.5	52.9
	4	119.7	114.8	109.9	104.0	<b>98.2</b>	92.3	85.4	77.5	69.7	59.9	49.1
70	1	234.2	224.6	215.0	203.5	<b>192.0</b>	180.5	167.0	151.7	136.3	117.1	96.0
95	1	283.0	271.4	259.8	245.9	<b>232.0</b>	218.1	201.8	183.3	164.7	141.5	116.0

▣ 위 허용전류는 기중 전선관(덕트)에 설치된 전선에 적용하며, 지중(땅속에 매립)에 설치하는 경우는 적용하지 아니한다.

▣ (1)은 목재 벽면에 설치된 전선에 적용하며, 전선관(덕트) 및 지중(땅속에 매립)에 설치하는 경우는 적용하지 아니한다.