



Code

H05VV5-F CU/PVC/PVC

Voltage Rating

300/500 V

Standards

EN 50525-2-51

IEC 60228

Conductor

Reaction to Fire Classification (CPR)

EN 60332-1-2

Flame Retardant

Conductor

Flexible Copper Conductor (Class 5)

Insulation

PVC (Polyvinyl Chloride)

Filler

PVC Filler

Armour

-

Sheath

Oil Resistant PVC (Polyvinyl Chloride)

Technical Data

Max. Operating Temperature	:	70°C
Short Circuit Temperature	:	160°C (max.5 sec.)
Bending Radius	:	6D (D : Overall Diameter)
Test Voltage	:	2 kV

Application

They are used in dry , damp and wet places , as measurement and control cables for internal installations where there is no mechanical effects , in the machinery fast production lines , control equipments and computer systems .

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
2x0,50	5,5	46,8	100	39,0	-	3
2x0,75	6,1	62,1	100	26,0	-	6
2x1	6,5	71,2	100	19,5	-	10
2x1,5	7,4	93,6	100	13,3	-	16
2x2,5	8,9	134,9	100	7,98	-	25
2x4	10,3	198,1	100	4,95	-	32
2x6	11,9	272,3	100	3,30	-	-
2x10	14,8	420,6	1000	1,91	-	-
2x16	17,3	607,5	1000	1,21	-	-
2x25	20,8	928,3	1000	0,780	-	-

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
3x0,50	5,9	55,3	100	39,0	-	3
3x0,75	6,5	74,2	100	26,0	-	6
3x1	6,9	85,9	100	19,5	-	10
3x1,5	8,1	117,7	100	13,3	-	16
3x2,5	9,6	170,6	100	7,98	-	25
3x4	10,9	234,9	100	4,95	-	32
3x6	12,6	333,5	100	3,30	-	-
3x10	15,8	526,2	1000	1,91	-	-
3x16	18,4	766,7	1000	1,21	-	-
3x25	22,2	1186,3	1000	0,780	-	-

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
4x0,50	6,6	70,8	100	39,0	-	3
4x0,75	7,1	91,0	100	26,0	-	6
4x1	7,5	101,4	100	19,5	-	10
4x1,5	8,8	140,0	100	13,3	-	16
4x2,5	10,7	223,0	100	7,98	-	25
4x4	12,4	304,9	100	4,95	-	32
4x6	14,2	424,3	100	3,30	-	-
4x10	17,9	687,0	1000	1,91	-	-
4x16	20,2	964,5	1000	1,21	-	-
4x25	24,8	1529,3	1000	0,780	-	-
4x35	27,7	2011,8	1000	0,554	-	-
4x50	32,5	2809,4	1000	0,386	-	-
4x70	36,6	3765,3	1000	0,272	-	-
4x95	42,3	4998,9	1000	0,206	-	-
4x120	47,4	5878,0	1000	0,161	-	-
4x150	51,3	7319,6	1000	0,129	-	-
4x185	57,5	9286,8	1000	0,106	-	-
4x240	64,1	11648,1	1000	0,0801	-	-

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
5x0,50	7,2	84,8	100	39,0	-	3
5x0,75	7,9	108,3	100	26,0	-	6
5x1	8,4	126,4	100	19,5	-	10
5x1,5	9,8	174,1	100	13,3	-	16
5x2,5	11,7	262,2	100	7,98	-	25
5x4	13,9	383,7	100	4,95	-	32
5x6	15,4	515,2	100	3,30	-	-
5x10	19,5	835,5	1000	1,91	-	-
5x16	22,1	1180,2	1000	1,21	-	-
5x25	27,2	1876,7	1000	0,780	-	-

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
6x0,50	8,0	104,0	1000	39,0	-	3
6x0,75	8,6	127,5	1000	26,0	-	6
6x1	9,3	154,6	1000	19,5	-	10
6x1,5	10,9	213,5	1000	13,3	-	16
6x2,5	13,0	322,2	1000	7,98	-	25
6x4	15,1	460,5	1000	4,95	-	32
6x6	16,8	620,7	1000	3,30	-	-
6x10	21,3	1011,2	1000	1,91	-	-
6x16	24,5	1456,0	1000	1,21	-	-
6x25	30,1	2313,2	1000	0,780	-	-

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
7x0,50	8,1	97,2	1000	39,0	-	3
7x0,75	9,0	124,9	1000	26,0	-	6
7x1	9,4	147,4	1000	19,5	-	10
7x1,5	11,3	208,8	1000	13,3	-	16
7x2,5	13,6	315,7	1000	7,98	-	25
7x4	15,3	447,4	1000	4,95	-	32
7x6	17,0	610,7	1000	3,30	-	-
7x10	21,5	994,0	1000	1,91	-	-
7x16	24,9	1448,3	1000	1,21	-	-
7x25	30,8	2328,4	1000	0,780	-	-

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
8x0,50	8,5	108,4	1000	39,0	-	3
8x0,75	9,4	138,5	1000	26,0	-	6
8x1	9,9	164,9	1000	19,5	-	10
8x1,5	11,8	233,7	1000	13,3	-	16
8x2,5	14,1	354,3	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
9x0,50	9,2	124,2	1000	39,0	-	3
9x0,75	9,8	153,9	1000	26,0	-	6
9x1	10,6	187,8	1000	19,5	-	10
9x1,5	12,6	264,8	1000	13,3	-	16
9x2,5	15,2	408,3	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
10x0,50	9,5	135,4	1000	39,0	-	3
10x0,75	10,5	173,6	1000	26,0	-	6
10x1	11,1	205,4	1000	19,5	-	10
10x1,5	13,1	289,7	1000	13,3	-	16
10x2,5	15,8	447,3	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
12x0,50	10,5	162,7	1000	39,0	-	3
12x0,75	11,2	202,1	1000	26,0	-	6
12x1	12,1	246,1	1000	19,5	-	10
12x1,5	14,1	338,4	1000	13,3	-	16
12x2,5	17,0	523,9	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
14x0,50	11,1	184,7	1000	39,0	-	3
14x0,75	12,0	230,4	1000	26,0	-	6
14x1	13,1	287,4	1000	19,5	-	10
14x1,5	15,4	402,4	1000	13,3	-	16
14x2,5	18,8	628,4	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
15x0,50	11,4	195,6	1000	39,0	-	3
15x0,75	12,7	257,2	1000	26,0	-	6
15x1	13,4	304,7	1000	19,5	-	10
15x1,5	15,9	426,9	1000	13,3	-	16
15x2,5	19,3	666,9	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
16x0,50	11,7	206,6	1000	39,0	-	3
16x0,75	13,0	271,5	1000	26,0	-	6
16x1	13,8	322,0	1000	19,5	-	10
16x1,5	16,3	451,2	1000	13,3	-	16
16x2,5	19,8	705,5	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
18x0,50	12,5	234,5	1000	39,0	-	3
18x0,75	13,7	299,9	1000	26,0	-	6
18x1	14,5	356,5	1000	19,5	-	10
18x1,5	17,1	499,7	1000	13,3	-	16
18x2,5	20,8	782,1	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
19x0,50	13,0	251,9	1000	39,0	-	3
19x0,75	14,0	313,9	1000	26,0	-	6
19x1	15,2	388,9	1000	19,5	-	10
19x1,5	17,5	523,7	1000	13,3	-	16
19x2,5	21,3	820,0	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
20x0,50	13,3	262,8	1000	39,0	-	3
20x0,75	14,5	335,4	1000	26,0	-	6
20x1	15,5	406,2	1000	19,5	-	10
20x1,5	18,5	575,6	1000	13,3	-	16
20x2,5	21,7	858,0	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
24x0,50	14,5	313,6	1000	39,0	-	3
24x0,75	15,8	399,7	1000	26,0	-	6
24x1	16,7	475,1	1000	19,5	-	10
24x1,5	19,9	673,0	1000	13,3	-	16
24x2,5	23,9	1033,0	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
25x0,50	14,7	323,3	1000	39,0	-	3
25x0,75	16,1	412,3	1000	26,0	-	6
25x1	17,0	490,6	1000	19,5	-	10
25x1,5	20,2	694,9	1000	13,3	-	16
25x2,5	24,3	1067,8	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
27x0,50	15,2	346,3	1000	39,0	-	3
27x0,75	16,6	442,1	1000	26,0	-	6
27x1	17,6	526,5	1000	19,5	-	10
27x1,5	20,9	745,6	1000	13,3	-	16
27x2,5	25,3	1159,6	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
28x0,50	15,4	357,2	1000	39,0	-	3
28x0,75	16,8	456,1	1000	26,0	-	6
28x1	17,8	543,4	1000	19,5	-	10
28x1,5	21,2	769,6	1000	13,3	-	16
28x2,5	25,7	1197,5	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
30x0,50	16,1	386,8	1000	39,0	-	3
30x0,75	17,3	483,9	1000	26,0	-	6
30x1	18,9	605,8	1000	19,5	-	10
30x1,5	21,8	817,4	1000	13,3	-	16
30x2,5	26,4	1272,9	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
32x0,50	16,5	408,5	1000	39,0	-	3
32x075	17,8	511,7	1000	26,0	-	6
32x1	19,5	640,4	1000	19,5	-	10
32x1,5	22,8	888,5	1000	13,3	-	16
32x2,5	27,4	1362,3	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
34x0,50	16,9	430,1	1000	39,0	-	3
34x0,75	18,8	567,9	1000	26,0	-	6
34x1	19,9	674,7	1000	19,5	-	10
34x1,5	23,4	936,5	1000	13,3	-	16
34x2,5	28,3	1452,0	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
36x0,50	17,3	451,4	1000	39,0	-	3
36x0,75	19,3	596,0	1000	26,0	-	6
36x1	20,4	708,9	1000	19,5	-	10
36x1,5	24,0	984,4	1000	13,3	-	16
36x2,5	28,9	1527,4	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
40x0,50	18,7	522,1	1000	39,0	-	3
40x0,75	20,1	652,1	1000	26,0	-	6
40x1	21,3	776,9	1000	19,5	-	10
40x1,5	25,2	1092,5	1000	13,3	-	16
40x2,5	30,3	1677,5	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
48x0,50	20,1	608,9	1000	39,0	-	3
48x0,75	21,7	763,5	1000	26,0	-	6
48x1	23,2	923,9	1000	19,5	-	10
48x1,5	27,5	1297,1	1000	13,3	-	16
48x2,5	32,9	1993,1	1000	7,98	-	25

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
60x0,50	22,1	736,8	1000	39,0	-	3
60x0,75	24,2	952,7	1000	26,0	-	6
60x1	25,9	1151,6	1000	19,5	-	10
60x1,5	30,6	1612,0	1000	13,3	-	16
60x2,5	36,2	2438,2	1000	7,98	-	25

Note :

Current carrying capacities are valid at 30°C ambient temperature.