



**Application**

power, control and connecting cable in electrical facilities for fixed laying and flexible applications without tensile stress and without defined cable routing. Suitable for use in dry, humid and wet rooms. Outdoor use only with UV-protection, no laying underground.

**Special features**

- 4kV testing voltage
- largely resistant to acids, bases and usual oils
- free from lacquer damaging substances and silicone (during production)

**Remarks**

- conform to RoHS
- conform to 2006/95/EC-Guideline CE.
- We are pleased to produce special versions, other dimensions, core and jacket colours on request.

**Structure & Specifications**

conductor material	bare copper strand
conductor class	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
core insulation	PVC
core identification	acc. to DIN VDE 0293 black cores with white numerals with or without gn/ye
stranding	stranded in layers
outer sheath	PVC
sheath colour	grey, RAL 7001
rated voltage	Uo/U 300/500 V
testing voltage	4.000 V
conductor resistance	acc. to DIN VDE 0295 class 5 resp. IEC 228 class 5
insulation resistance	min. 20 MΩ x km
current carrying capacity	acc. to DIN VDE, see technical Guidelines
min. bending radius fixed	4 x d
min. bending radius moved	15 x d
operat. temp. fixed min/max	-30 °C / +80 °C
operat. temp. moved min/max	-5 °C / +70 °C
temp. at conductor	+70 °C in operation; +150 °C in case of short-circuit
burning behavior	self-extinguishing & flame-retardant acc.to IEC 332-1
standard	according to DIN VDE 0245, 0250 and 0281

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dimension n x mm <sup>2</sup> dimension n x mm <sup>2</sup>	outer Ø mm outer Ø mm	copper weight kg/km copper weight kg/km	weight kg/km weight kg/km
2 X 0,5	4,9	10,0	35,0
3 G 0,5	5,2	15,0	42,0
4 G 0,5	5,8	19,2	54,0
5 G 0,5	6,3	24,0	63,0
7 G 0,5	6,8	33,6	81,0
10 G 0,5	8,4	48,0	116,0
12 G 0,5	8,6	58,0	135,0
14 G 0,5	10,2	67,0	153,0
18 G 0,5	11,0	86,4	188,0
21 G 0,5	12,5	101,0	221,0
25 G 0,5	13,0	120,0	261,0
34 G 0,5	15,0	163,0	256,0
2 X 0,75	5,2	14,4	45,0
3 G 0,75	5,6	21,6	55,0
4 G 0,75	6,3	28,8	66,0
5 G 0,75	6,8	36,0	79,0
7 G 0,75	7,4	50,0	101,0
8 G 0,75	8,9	58,0	130,0
10 G 0,75	9,6	72,0	150,0
12 G 0,75	10,1	86,0	171,0
16 G 0,75	11,5	115,5	220,0
18 G 0,75	11,9	130,0	244,0
19 G 0,75	11,9	137,0	270,0
21 G 0,75	12,9	151,0	286,0
25 G 0,75	14,1	180,0	337,0
34 G 0,75	16,2	245,0	448,0
41 G 0,75	17,9	296,0	538,0
50 G 0,75	19,4	360,0	648,0
61 G 0,75	20,9	439,0	779,0
2 X 1	5,6	19,2	53,0
3 G 1	6,1	28,8	65,0
4 G 1	6,6	38,4	79,0
5 G 1	7,2	48,0	94,0
6 G 1	8,2	58,0	113,0
7 G 1	8,2	67,0	126,0
8 G 1	9,2	77,0	149,0
10 G 1	10,4	96,0	180,0
12 G 1	10,5	115,0	205,0
14 G 1	11,4	134,0	238,0
16 G 1	12,0	153,6	266,0
18 G 1	13,0	173,0	294,0
19 G 1	13,0	182,4	330,0
20 G 1	13,7	192,0	330,0
25 G 1	15,0	240,0	408,0
27 G 1	15,4	259,0	424,0
34 G 1	17,4	326,0	551,0
41 G 1	19,2	394,0	661,0
42 G 1	19,4	403,0	776,0
50 G 1	21,0	480,0	797,0
61 G 1	22,5	586,0	958,0
65 G 1	23,5	624,0	1.033,0

dimension n x mm <sup>2</sup> dimension n x mm <sup>2</sup>	outer Ø mm outer Ø mm	copper weight kg/km copper weight kg/km	weight kg/km weight kg/km
2 X 1,5	6,4	29,0	68,0
3 G 1,5	6,8	43,0	84,0
4 G 1,5	7,3	58,0	104,0
5 G 1,5	8,3	72,0	128,0
7 G 1,5	9,1	101,0	166,0
8 G 1,5	10,3	115,0	197,0
9 G 1,5	11,2	130,0	221,0
10 G 1,5	11,5	144,0	243,0
12 G 1,5	12,2	173,0	279,0
14 G 1,5	12,7	202,0	323,0
16 G 1,5	13,7	230,4	361,0
18 G 1,5	14,5	259,0	407,0
21 G 1,5	16,0	302,0	469,0
25 G 1,5	17,0	360,0	560,0
34 G 1,5	19,6	490,0	746,0
42 G 1,5	21,7	605,0	895,0
50 G 1,5	23,6	720,0	1.089,0
61 G 1,5	25,7	878,0	1.309,0
2X2,5	7,7	48,0	101,0
3G2,5	8,3	72,0	132,0
4G2,5	9,1	96,0	163,0
5G2,5	10,2	120,0	242,0
7G2,5	11,3	168,0	267,0
8G2,5	12,9	192,0	315,0
10G2,5	14,6	240,0	478,0
12G2,5	15,1	288,0	445,0
18G2,5	18,2	432,0	648,0
25G2,5	21,2	600,0	890,0
3G4	10,1	115,0	201,0
4G4	11,0	154,0	249,0
5G4	12,3	192,0	305,0
7G4	13,7	269,0	407,0
11G4	17,4	422,0	634,0
12G4	18,0	461,0	660,0
3G6	11,9	172,8	289,0
4G6	12,8	230,0	365,0
5G6	14,4	288,0	447,0
7G6	16,0	403,0	600,0
3G10	14,7	288,0	466,0
4G10	16,5	384,0	590,0
5G10	18,5	480,0	722,0
7G10	20,1	672,0	968,0
4G16	20,3	614,0	1.087,0
5G16	22,8	768,0	1.370,0
7G16	24,7	1075,0	1.779,0
4G25	25,0	960,0	1.582,0
5G25	27,8	1200,0	1.998,0