



Heavy duty rubber cable for industrial and mining devices, rated 0,6/1kV



mining applications



industrial application



EN 60332-1



high flexibility



UV resistance



oil resistant EN 60811-404



mechanical resistance

Application:

Cable designed for power supply to mobile and portable devices operating in conditions of severe mechanical stresses in open pits, excavation sites, machinery industry and in construction sites. Based acc. to DIN VDE 0250 p. 812. Suitable for use in dry and damp rooms as well as for outdoor installation. Cable with increased mechanical resistance, moisture-, UV- and oil resistance characteristics. Cables classified according to **EN 50575 (CPR)**.

Technical data:

Temperature range: - 40°C to 90

°C **Max conductor operating temperature:**

- during operation: 90°C

- during short circuit: 250°C

Operating voltage: 0,6/1kV

Test voltage: 3500V

Max acceptable mechanical loa

d: 15N/mm

Min bending radius:

fixed installation: 4xØ

mobile connections: 10xØ

guide systems: 15xØ

Construction:

Conductors: multi stranded tinned copper conductors, class 5 as per DIN VDE 0295 (EN 60228)

Insulation: heat resistant EPR rubber, 3GI3 type, as per DIN VDE 0207

Colour coding: acc. to the table below

Inner sheath: special rubber compound

Outer sheath: CPR rubber, flame retardant (EN 60332-1) and oil resistant with

increased abrasion and tear resistance, 5GM5 type, as per DIN VDE 0207

Outer sheath colour: yellow

Chemical parameters:

Resistance to oil: EN 60811-2-1, IEC 60811-2-1 **Behaviour in case of fire:** VDE 0482 Part 332-1-2, EN 60332-1-2, IEC 60332-1-2

Weather resistance: Unrestricted use indoors, outdoors, resistance to ozone, UV and moisture

n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
1x1,5	6,3	55	14,4
1x2,5	7,0	75	24,0
1x4	7,7	95	38,0
1x6	8,2	120	58,0
1x10	9,7	180	96,0
1x16	10,8	240	154,0
1x25	13,2	360	240,0
1x35	13,9	460	336,0
1x50	16,3	630	480,0
1x70	18,5	850	672,0
1x95	21,0	1100	912,0
1x120	22,7	1370	1152,0
1x150	24,9	1680	1440,0
1x185	28,6	2100	1776,0
1x240	30,5	2700	2304,0
1x300	35,5	3360	2880,0
1x400	37,8	4250	3840,0
2x1,5	11,4	175	28,8
2x2,5	12,8	230	48,0
2x4	15,3	330	76,8
2x6	16,5	400	115,2
2x10	20,1	600	192,0
2x16	22,6	800	307,2
2x25	26,7	1200	480,0
2x35	28,2	1400	672,0
2x50	34,4	2050	960,0
2x70	39,4	2750	1344,0
2x95	44,4	3500	1824,0
2x120	48,3	4300	2304,0
3x1,5	11,9	200	43,2

n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
3x2,5	13,3	250	72,0
3x4	16,0	380	115,2
3x6	17,2	470	172,0
3x10	21,1	720	288,0
3x16	23,7	1000	460,8
3x25	28,1	1400	720,0
3x35	31,1	1830	1008,0
3x50	37,7	2630	1440,0
3x70	41,5	3390	2016,0
3x95	48,7	4550	2736,0
3x120	51,0	5370	3456,0
3x150	55,9	6540	4320,0
3x185	63,4	8150	5328,0
4x1,5	12,7	230	57,6
4x2,5	15,5	340	96,0
4x4	17,1	440	153,6
4x6	18,5	550	230,4
4x10	22,8	850	384,0
4x16	26,7	1230	614,4
4x25	31,9	1800	960,0
4x35	33,7	2230	1344,0
4x50	40,9	3200	1920,0
4x70	45,2	4160	2688,0
4x95	53,0	5570	3684,0
4x120	57,4	6870	4608,0
4x150	62,9	8370	5760,0
4x185	71,0	10360	7104,0
5x1,5	13,6	270	72,0
5x2,5	16,6	400	120,0
5x4	18,4	520	192,0

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n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
5x6	20,8	700	288,0
5x10	24,6	1030	480,0
5x16	28,9	1500	768,0
5x25	34,5	2200	1200,0
5x35	37,9	2840	1680,0
5x50	44,4	3900	2400,0
5x70	51,0	5300	3360,0
6x1,5	15,7	350	86,4
6x2,5	17,7	460	144,0
6x4	20,6	650	230,0
6x6	22,3	800	346,0
6x10	26,6	1200	576,0
6x16	31,2	1750	922,0
6x25	37,3	2560	1440,0
6x35	40,9	3350	2016,0
6x50	49,9	4820	2880,0
7x1,5	16,6	390	100,8
7x2,5	18,9	520	168,0
7x4	21,9	730	268,8
7x6	23,8	920	429,0
7x10	29,5	1460	672,0
7x16	34,9	2100	1075,0
7x25	41,4	3100	1680,0
7x35	43,8	3860	2352,0
7x50	53,6	5600	3360,0
8x1,5	17,9	460	115,0
10x1,5	19,6	520	144,0
10x2,5	22,3	700	240,0
12x1,5	20,1	560	172,8
12x2,5	22,9	770	288,0
12x4	26,7	1080	460,0
14x2,5	23,9	850	336,0
15x1,5	21,8	670	216,0

n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]	Cu [kg/km]
15x2,5	25,0	920	360,0
16x2,5	25,0	940	384,0
18x1,5	22,7	750	259,0
18x2,5	27,1	1100	432,0
18x4	31,9	1600	691,0
19x2,5	28,2	1200	456,0
24x2,5	30,9	1350	576,0
2x4+2,5	16,0	370	101,0
2x6+4	17,2	450	154,0
2x10+6	21,1	700	250,0
2x16+10	23,7	930	403,0
3x10+6	22,1	820	346,0
3x25+16	30,9	1730	874,0
3x35+16	32,2	2070	1162,0
3x50+16	41,0	3070	1594,0
3x50+25	41,2	3150	1680,0
3x70+35	42,6	3800	2352,0
3x95+50	50,4	5150	3216,0
3x120+70	56,7	6770	4128,0
4x16+2x2,5	25,7	1200	662,0
4x25+2x2,5	30,5	1750	1008,0
4x35+2x2,5	33,7	2280	1392,0
4x50+2x2,5	40,9	3270	1968,0
4x70+2x2,5	45,2	4230	2736,0
4x95+2x2,5	53,0	5660	3696,0
4x120+2x2,5	55,6	6730	4656,0
4x2,5+3x1	18,6	470	125,0
4x6+3x1	22,2	720	260,0
4x6+3x1,5	21,2	680	274,0
4x10+3x1,5	24,9	960	427,0
5x2,5+4x1	20,2	560	158,0
5x6+4x1	24,3	870	326,0
7x6+2x1,5	23,8	920	432,0



- Die obigen Werte entsprechen den Angaben des Herstellers und können nicht garantiert werden.
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- Alle anderen Größen oder andere Ausführungen auf Anfrage

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Screened cables

n x mm ²	Outer diameter [mm]	Approximate cable weight [kg/km]
3x2,5+3x2,5/3E	18,0	350,0
3x4+3x4/3E	21,5	500,0
3x6+3x6/3E	22,2	600,0
3x10+3x10/3E	26,8	950,0
3x16+3x16/3E	28,6	1200,0
3x25+3x16/3E	31,4	1800,0
3x35+3x16/3E	36,0	2300,0
3x50+3x25/3E	42,5	3300,0
3x70+3x35/3E	46,7	4100,0
3x95+3x50/3E	54,0	5500,0
3x120+3x70/3E	58,0	6800,0
3x150+3x70/3E	62,0	8000,0
3x2,5+3x2,5/3E+3x1,5 ST	18,5	500,0
3x4+3x4/3E+3x1,5 ST	21,5	550,0
3x6+3x6/3E+3x1,5 ST	22,5	650,0
3x10+3x10/3E+3x2,5 ST	26,8	1000,0
3x16+3x16/3E+3x2,5 ST	28,6	1300,0
3x25+3x16/3E+3x2,5 ST	32,0	1900,0
3x35+3x16/3E+3x2,5 ST	36,0	2400,0
3x50+3x25/3E+3x2,5 ST	42,5	3400,0
3x70+3x35/3E+3x2,5 ST	47,0	4200,0
3x95+3x50/3E+3x2,5 ST	54,0	5600,0
3x120+3x70/3E+3x2,5 ST	58,0	6900,0
3x150+3x70/3E+3x2,5 ST	62,0	8100,0

Current rating acc to DIN VDE 0298-4 for ambient temperature of 30°C
Single cable laid in air with 3 operating power conductors

Nominal cross section [mm ²]
2,5
4
6
10
16
25
35
50
70
95
120
150
185

Current rating [A]
30
41
53
74
99
131
162
202
250
301
352
404
461

Correction factors for temperature > 30°C

Ambient temperature [°C]	Correction factor
30	1,00
35	0,95
40	0,89
45	0,84
50	0,77
55	0,71
60	0,63
65	0,55
70	0,45
75	0,32

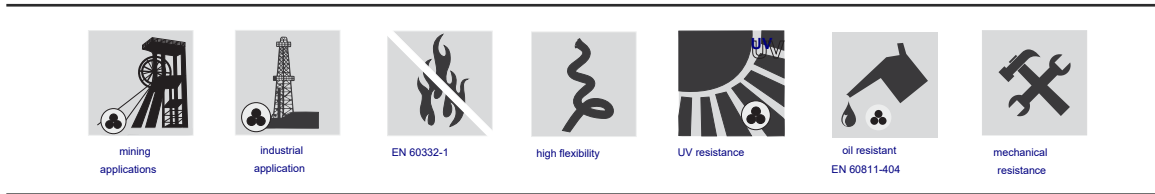
Correction factors for multicore cables

Number of cores	Correction factors
5	0,75
7	0,65
10	0,55
14	0,50
19	0,45
24	0,40

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Conductor colour coding:

No. of cores	With protective conductor (G/Y)	Without protective conductor
1	-	black
2	-	blue, brown,
3	-	brown, black, grey
4	Green-yellow, blue, brown	brown, black, grey
5	Green-yellow, brown, black, grey	blue, brown, black, grey
	Green-yellow, blue, brown, black, grey	blue, brown, black, grey, black
More than 5	Green-yellow + black, number coded cores	black, number coded cores



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