

YY-JZ 0,6/1 kV BLACK

Flexible control cable, number coded cores



Cable structure

- Stranded bare copper conductor according to DIN VDE 0295, IEC 60228 cl. 5
- Core insulation of special PVC
- Black cores with repeated white numbering according to DIN VDE 0293
- Cores stranded in layers with optimal lay-length
- Green-yellow earth core in the outer layer (from 3 cores above)
- Outer sheath of special PVC color black, extensively oil resistant
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482-1-2/ DIN EN 60332-1-2/ IEC 60332-1-2

Technical data

- Control cables, special PVC, requirements adapted to DIN EN 50252-2-51 with insulation thickness for 1 kV
- **Temperature range** flexing from -5 °C to +70 °C
fixed from -40 °C to +80 °C
- **Nominal voltage** U_0/U 0,6/1 kV
- **Test voltage a.c.** 4000 V
- **Insulation resistance** min. 20 M Ω × km
- **Current carrying capacity** acc. to DIN VDE 0298
- **Minimum bending radius** approx. 7,5× cable diameter
- **Radiation resistance** up to 80×10⁶ cJ/kg (up to 80 Mrad)
- **Resistant to UV radiation**

Application

Flexible cable for measuring and controlling purposes in tool machinery, conveyor belts, production lines, air conditioning and heavy industry. Ideal for flexible application with medium mechanical stress with free movement, but without tensile stress in dry, moist and wet areas. This cable is also suitable for fixed installation in open air. However, the cable cannot be used as direct burial or underwater cable. The cores are numbered in such way that they are still recognizable even after a small part of the outer sheath is removed. The numbered codes are underlined to avoid possible confuse. The earth core is laid in the outer layer. The black outer sheath made of special PVC is resistant to UV radiation.

Note

CE = the product is conformed with the EC Low-Voltage Directive 2014/35/EU.
OZ = version without green-yellow earth core
Conforms to RoHS. Silicone-free.

Part No.	Number of cores x core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0110550 OZ	2 × 0,5	6,4	9,6	76
0110551	3 × 0,5	6,8	14,4	88
0110552 OZ	3 × 0,5	6,8	14,4	88
0110553	4 × 0,5	7,6	19,0	100
0110554 OZ	4 × 0,5	7,6	19,0	100
0110555	5 × 0,5	8,2	24,0	117
0110556 OZ	5 × 0,5	8,2	24,0	117
0110557	6 × 0,5	9,1	28,8	126
0110558	7 × 0,5	9,8	33,6	138
0110559 OZ	7 × 0,5	9,8	33,6	158
0110560	8 × 0,5	10,7	38,0	150
0110561 OZ	8 × 0,5	10,7	38,0	150
0110562	10 × 0,5	11,6	48,0	176
0110563	12 × 0,5	12,2	58,0	200
0110564 OZ	12 × 0,5	12,2	58,0	200
0110565	14 × 0,5	12,3	67,0	230
0110566	16 × 0,5	13,7	76,0	250
0110567	18 × 0,5	14,4	86,0	276
0110568	20 × 0,5	15,3	96,0	293
0110569	21 × 0,5	16,5	96,0	305
0110570	25 × 0,5	17,2	120,0	335
0110571	30 × 0,5	18,0	144,0	348
0110572	32 × 0,5	18,9	154,0	355
0110573	34 × 0,5	19,3	163,0	520
0110574	40 × 0,5	21,2	192,0	590
0110575	42 × 0,5	21,2	202,0	595
0110576	50 × 0,5	23,4	240,0	715
0110577	52 × 0,5	24,3	252,0	740
0110578	61 × 0,5	26,0	293,0	840
0110579	65 × 0,5	26,3	312,0	880
0110580	80 × 0,5	28,9	384,0	960
0110581	100 × 0,5	33,5	480,0	1050

Part No.	Number of cores x core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0110582 OZ	2 × 0,75	6,8	14,4	96
0110583	3 × 0,75	7,2	21,3	108
0110584 OZ	3 × 0,75	7,2	21,6	108
0110585	4 × 0,75	8,0	28,8	126
0110586 OZ	4 × 0,75	8,0	28,8	126
0110587	5 × 0,75	8,8	36,0	140
0110588 OZ	5 × 0,75	8,8	36,0	140
0110589	6 × 0,75	9,7	43,2	170
0110590 OZ	6 × 0,75	9,7	43,2	170
0110591	7 × 0,75	10,7	50,5	190
0110592 OZ	7 × 0,75	10,7	50,5	190
0110593	8 × 0,75	11,5	58,0	212
0110594 OZ	8 × 0,75	11,5	58,0	212
0110595	9 × 0,75	12,5	65,0	227
0110596	10 × 0,75	12,7	72,0	238
010110597	12 × 0,75	13,1	86,0	257
0110598 OZ	12 × 0,75	13,1	86,0	257
0110599	14 × 0,75	13,9	101,0	286
0110600	15 × 0,75	14,7	108,0	319
0110601	18 × 0,75	15,6	130,0	362
0110602	20 × 0,75	16,6	144,0	394
0110603	21 × 0,75	17,3	151,0	422
0110604	25 × 0,75	18,9	180,0	486
0110605	32 × 0,75	20,5	230,0	595
0110606	34 × 0,75	21,5	245,0	638
0110607	37 × 0,75	21,3	260,0	696
0110608	40 × 0,75	23,2	288,0	726
0110609	41 × 0,75	23,2	296,0	750
0110610	42 × 0,75	23,2	302,0	770
0110611	50 × 0,75	25,6	360,0	895
0110612	61 × 0,75	28,2	439,0	1070
0110613	65 × 0,75	29,0	468,0	1110

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Part No.	Number of cores x core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0110614	80 × 0,75	31,4	576,0	1500
0110615	100 × 0,75	36,2	720,0	1889
0110616 OZ	2 × 1	7,4	19,2	80
0110617	3 × 1	8,0	29,0	90
0110618 OZ	3 × 1	8,0	29,0	90
0110619	4 × 1	8,8	38,4	100
0110620 OZ	4 × 1	8,8	38,4	100
0110621	5 × 1	9,8	48,0	130
0110622 OZ	5 × 1	9,8	48,0	130
0110623	6 × 1	10,8	58,0	150
0110624	7 × 1	11,7	67,0	170
0110625 OZ	7 × 1	11,7	67,0	170
0110626	8 × 1	12,8	77,0	230
0110627	9 × 1	13,9	86,0	250
0110628	10 × 1	14,1	96,0	270
0110629 OZ	10 × 1	14,1	96,0	270
0110630	12 × 1	14,5	115,0	290
0110631 OZ	12 × 1	14,5	115,0	290
0110632	14 × 1	15,5	134,0	320
0110633	16 × 1	16,5	154,0	360
0110634	18 × 1	17,3	173,0	405
0110636	20 × 1	18,4	192,0	450
0110638	21 × 1	19,4	205,0	510
0110639	24 × 1	20,3	236,0	550
0110640	25 × 1	21,1	240,0	570
0110642	26 × 1	21,1	250,0	590
0110644	34 × 1	24,0	326,0	750
0110645	36 × 1	24,0	346,0	790
0110646	40 × 1	25,9	384,0	850
0110648	41 × 1	25,9	394,0	890
0110649	42 × 1	25,9	403,0	900
0110650	50 × 1	28,5	480,0	1100
0110651	56 × 1	29,3	538,0	1190
0110652	61 × 1	31,4	586,0	1266
0110653	65 × 1	32,5	624,0	1560
0110654	80 × 1	34,8	786,0	1810
0110655	100 × 1	40,1	960,0	1950
0110656 OZ	2 × 1,5	8,4	29,0	95
0110657	3 × 1,5	9,1	43,0	110
0110658 OZ	3 × 1,5	9,1	43,0	110
0110659	4 × 1,5	9,9	58,0	141
0110660 OZ	4 × 1,5	9,9	58,0	141
0110661	5 × 1,5	11,0	72,0	170
0110662 OZ	5 × 1,5	11,0	72,0	170
0110663	6 × 1,5	12,3	86,0	190
0110664	7 × 1,5	13,3	101,0	225
0110665 OZ	7 × 1,5	13,3	101,0	225
0110666	8 × 1,5	14,5	115,0	250
0110667	9 × 1,5	15,7	130,0	280
0110668	10 × 1,5	15,9	144,0	300
0110669	11 × 1,5	16,6	158,0	330
0110670	12 × 1,5	16,6	173,0	370
0110671 OZ	12 × 1,5	16,6	173,0	370
0110672	14 × 1,5	17,4	202,0	400
0110673	16 × 1,5	18,5	230,0	450
0110674	18 × 1,5	19,7	259,0	520
0110675	19 × 1,5	20,9	279,0	550
0110676	20 × 1,5	20,9	288,0	600
0110677	21 × 1,5	22,0	302,0	600
0110678	25 × 1,5	23,9	360,0	730
0110679	32 × 1,5	26,0	461,0	880
0110680	34 × 1,5	27,2	490,0	950
0110681	40 × 1,5	29,3	576,0	990
0110682	42 × 1,5	29,5	605,0	1120
0110683	50 × 1,5	32,5	720,0	1400
0110684	56 × 1,5	33,5	806,0	1530
0110685	61 × 1,5	35,7	878,0	1700
0110686	65 × 1,5	36,8	936,0	1900
0110687	80 × 1,5	39,9	1152,0	2300
0110688	100 × 1,5	45,6	1440,0	2700
0110689 OZ	2 × 2,5	9,4	48,0	160
0110690	3 × 2,5	9,9	72,0	175
0110691 OZ	3 × 2,5	9,9	72,0	175
0110692	4 × 2,5	11,1	96,0	203
0110693 OZ	4 × 2,5	11,1	96,0	203
0110694	5 × 2,5	12,4	120,0	251
0110695 OZ	5 × 2,5	12,4	120,0	251
0110696	7 × 2,5	15,0	168,0	330
0110697 OZ	7 × 2,5	15,0	168,0	330
0110698	8 × 2,5	16,1	192,0	400
0110699	12 × 2,5	18,4	288,0	553
0110700	14 × 2,5	19,6	336,0	630
0110701	18 × 2,5	22,0	432,0	795
0110702	21 × 2,5	24,6	504,0	930
0110703	25 × 2,5	26,9	600,0	1110
0110704	34 × 2,5	30,4	816,0	1450
0110705	42 × 2,5	33,0	1008,0	1750
0110706	50 × 2,5	36,2	1200,0	2100
0110707	61 × 2,5	40,1	1464,0	2540
0110708	100 × 2,5	49,0	2400,0	3850
0110709 OZ	2 × 4	11,4	77,0	180
0110710	3 × 4	12,3	115,0	230
0110711	4 × 4	13,8	154,0	310
0110712	5 × 4	15,3	192,0	410
0110713	7 × 4	16,8	269,0	540
0110714	8 × 4	20,0	307,0	710
0110715	12 × 4	22,9	461,0	860
0110716	3 × 6	14,1	173,0	370
0110717	4 × 6	15,6	230,0	430
0110718	5 × 6	17,3	288,0	650
0110719	7 × 6	19,3	403,0	860
0110720	3 × 10	16,5	288,0	660
0110721	4 × 10	18,4	384,0	790
0110722	5 × 10	20,5	480,0	960
0110723	7 × 10	22,5	672,0	1300
0110724	3 × 16	19,1	461,0	700
0110725	4 × 16	21,2	614,0	1100
0110726	5 × 16	23,6	768,0	1600
0110727	7 × 16	25,8	1075,0	1890
0110728	3 × 25	24,0	720,0	1450
0110729	4 × 25	26,9	960,0	1600
0110730	5 × 25	29,3	1200,0	2050
0110731	7 × 25	32,6	1680,0	2900
0110732	3 × 35	26,2	1008,0	1900
0110733	4 × 35	29,4	1344,0	2400
0110734	5 × 35	32,8	1680,0	2900
0110735	3 × 50	30,5	1440,0	2700
0110736	4 × 50	34,2	1920,0	3400
0110742	5 × 50	38,0	2400,0	4361
0110737	3 × 70	36,7	2016,0	3300
0110738	4 × 70	41,0	2688,0	4400
0110743	5 × 70	45,7	3360,0	5807
0110739	3 × 95	41,2	2736,0	5050
0110740	4 × 95	46,2	3648,0	6010
0110744	5 × 95	50,7	4560,0	7752
0110741	4 × 120	50,5	4608,0	7500
0110745	4 × 150	57,4	5760,0	8640
0110746	4 × 185	64,5	7104,0	10380