

YY-JZ/-OZ (YSLY)

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
- Different core colors available on request
- 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 grey, extensively oil resistant
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1-2

Application

These cables are used for medium mechanical stress with free movement, but tensile stress must be avoided. The cables can be used in dry, moist and wet environments, but are not suitable for open air. These cables are ideal for application in measuring and controlling technics, conveyor belts, production lines, air conditioning and heavy industry. 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. Special PVC compound ensures a good flexibility and economic and fast installation.

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.

Technical data

- Control PVC cable, requirements adapted to DIN EN 50525-2-51
- **Temperature range** flexing from -5 °C to +70 °C
fixed from -40 °C to +80 °C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 4000 V
- **Insulation resistance** min. 20 M Ω × km
- **Minimum bending radius** approx. 7,5× cable diameter
- **Radiation resistance** up to 80×10⁶ cJ/kg (up to 80 Mrad)

Part No.	Number of cores × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0110001 OZ	2 × 0,5	4,8	9,6	40
0110002	3 × 0,5	5,1	14,4	46
0110003 OZ	3 × 0,5	5,1	14,4	46
0110004	4 × 0,5	5,7	19,0	56
0110005 OZ	4 × 0,5	5,7	19,0	56
0110006	5 × 0,5	6,2	24,0	65
0110007 OZ	5 × 0,5	6,2	24,0	65
0110008	6 × 0,5	6,7	28,8	75
0110009	7 × 0,5	7,4	33,6	80
0110010 OZ	7 × 0,5	7,4	33,6	80
0110011	8 × 0,5	8,0	38,0	97
0110012	10 × 0,5	8,8	48,0	116
0110013	12 × 0,5	9,1	58,0	135
0110014 OZ	12 × 0,5	9,1	58,0	135
0110015	14 × 0,5	9,5	67,0	150
0110183	16 × 0,5	10,0	76,0	175
0110016	18 × 0,5	10,7	86,0	196
0110017	20 × 0,5	11,2	96,0	215
0110018	21 × 0,5	11,8	101,0	240
0110019	25 × 0,5	13,0	120,0	270
0110020	30 × 0,5	13,5	144,0	310
0110021	32 × 0,5	14,0	154,0	323
0110022	34 × 0,5	14,5	163,0	362
0110023	40 × 0,5	15,8	192,0	434
0110024	42 × 0,5	15,8	202,0	449
0110025	50 × 0,5	17,3	240,0	513
0110169	52 × 0,5	17,3	252,0	554
0110026	61 × 0,5	19,4	293,0	625
0110027	65 × 0,5	19,4	312,0	682
0110028	80 × 0,5	21,3	384,0	780
0110029	100 × 0,5	23,7	480,0	980
0110030 OZ	2 × 0,75	5,2	14,4	46
0110031	3 × 0,75	5,5	21,6	54
0110032 OZ	3 × 0,75	5,5	21,6	54

Part No.	Number of cores × core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0110033	4 × 0,75	6,2	28,8	66
0110034 OZ	4 × 0,75	6,2	28,8	66
0110035	5 × 0,75	6,8	36,0	80
0110036 OZ	5 × 0,75	6,8	36,0	80
0110037	6 × 0,75	7,5	43,2	99
0110177 OZ	6 × 0,75	7,5	43,2	99
0110038	7 × 0,75	8,1	50,5	110
0110039 OZ	7 × 0,75	8,1	50,5	110
0110040	8 × 0,75	8,9	58,0	130
0110041	9 × 0,75	9,5	65,0	153
0110042	10 × 0,75	9,6	72,0	162
0110043	12 × 0,75	9,9	86,0	179
0110044 OZ	12 × 0,75	9,9	86,0	179
0110045	14 × 0,75	10,6	101,0	214
0110046	15 × 0,75	11,2	108,0	218
0110047	18 × 0,75	11,9	130,0	257
0110533	19 × 0,75	12,3	137,0	264
0110048	20 × 0,75	12,6	144,0	286
0110049	21 × 0,75	13,3	151,0	320
0110050	25 × 0,75	14,5	180,0	365
0110534	27 × 0,75	15,2	195,0	382
0110051	32 × 0,75	15,6	230,0	455
0110052	34 × 0,75	16,4	245,0	510
0110182	37 × 0,75	17,2	260,0	537
0110053	40 × 0,75	17,6	288,0	595
0110054	41 × 0,75	17,6	296,0	607
0110055	42 × 0,75	17,6	302,0	612
0110056	50 × 0,75	19,8	360,0	735
0110057	61 × 0,75	20,9	439,0	845
0110178	65 × 0,75	21,5	468,0	895
0110058	80 × 0,75	23,6	576,0	1070
0110059	100 × 0,75	26,2	720,0	1322
0110060 OZ	2 × 1	5,5	19,2	60
0110061	3 × 1	6,0	29,0	72

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0110062 OZ	3 × 1	6,0	29,0	72
0110063	4 × 1	6,6	38,4	86
0110064 OZ	4 × 1	6,6	38,4	86
0110065	5 × 1	7,2	48,0	104
0110066 OZ	5 × 1	7,2	48,0	104
0110067	6 × 1	8,0	58,0	125
0110068	7 × 1	8,6	67,0	141
0110069 OZ	7 × 1	8,6	67,0	141
0110070	8 × 1	9,4	77,0	175
0110071	9 × 1	10,1	86,0	200
0110180	10 × 1	10,4	96,0	217
0110072	12 × 1	10,7	115,0	230
0110073 OZ	12 × 1	10,7	115,0	230
0110074	14 × 1	11,3	134,0	271
0110075	16 × 1	12,0	154,0	300
0110076	18 × 1	12,7	173,0	343
0110197	19 × 1	13,0	184,0	355
0110077	20 × 1	13,5	192,0	375
0110179	21 × 1	14,1	205,0	420
0110175	24 × 1	14,7	236,0	440
0110078	25 × 1	15,6	240,0	485
0110196	26 × 1	15,6	250,0	500
0110198	27 × 1	15,8	259,0	534
0110079	34 × 1	17,4	326,0	650
0110080	36 × 1	17,4	346,0	668
0110199	37 × 1	18,4	355,0	701
0110081	40 × 1	18,9	384,0	755
0110082	41 × 1	18,9	394,0	770
0110083	42 × 1	18,9	403,0	810
0110084	50 × 1	21,0	480,0	936
0110085	56 × 1	21,5	538,0	920
0110086	61 × 1	22,2	586,0	1100
0110087	65 × 1	22,8	624,0	1180
0110088	80 × 1	25,4	786,0	1294
0110089	100 × 1	28,2	960,0	1644
0110090 OZ	2 × 1,5	6,3	29,0	70
0110091	3 × 1,5	6,7	43,0	90
0110092 OZ	3 × 1,5	6,7	43,0	90
0110093	4 × 1,5	7,3	58,0	109
0110094 OZ	4 × 1,5	7,3	58,0	109
0110095	5 × 1,5	8,2	72,0	131
0110096 OZ	5 × 1,5	8,2	72,0	131
0110097	6 × 1,5	8,9	86,0	157
0110098	7 × 1,5	9,8	101,0	184
0110099 OZ	7 × 1,5	9,8	101,0	184
0110100	8 × 1,5	10,6	115,0	216
0110101	9 × 1,5	11,5	130,0	259
0110181	10 × 1,5	11,7	144,0	275
0110102	11 × 1,5	12,1	158,0	300
0110103	12 × 1,5	12,1	173,0	309
0110104 OZ	12 × 1,5	12,1	173,0	309
0110105	14 × 1,5	12,9	202,0	345
0110106	16 × 1,5	13,6	230,0	386
0110107	18 × 1,5	14,5	259,0	440
0110185	19 × 1,5	15,2	274,0	445
0110108	20 × 1,5	15,2	288,0	490
0110109	21 × 1,5	16,1	302,0	555
0110110	25 × 1,5	17,8	360,0	620
0110535	27 × 1,5	19,0	389,0	670

Part No.	Number of cores x core cross-section [mm ²]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0110111	32 × 1,5	19,1	461,0	790
0110112	34 × 1,5	19,8	490,0	830
0110536	37 × 1,5	20,2	533,0	892
0110113	41 × 1,5	21,0	590,0	996
0110114	42 × 1,5	21,4	605,0	1007
0110115	50 × 1,5	23,7	720,0	1250
0110116	56 × 1,5	25,0	806,0	1332
0110117	61 × 1,5	25,3	878,0	1440
0110187	65 × 1,5	26,0	936,0	1602
0110118	80 × 1,5	29,0	1152,0	1871
0110119	100 × 1,5	32,5	1440,0	2353
0110120 OZ	2 × 2,5	7,6	48,0	112
0110121	3 × 2,5	8,3	72,0	148
0110122 OZ	3 × 2,5	8,3	72,0	148
0110123	4 × 2,5	9,1	96,0	178
0110124 OZ	4 × 2,5	9,1	96,0	178
0110125	5 × 2,5	10,2	120,0	221
0110126 OZ	5 × 2,5	10,2	120,0	221
0110127	7 × 2,5	12,1	168,0	306
0110128 OZ	7 × 2,5	12,1	168,0	306
0110129	8 × 2,5	13,2	192,0	363
0110130	12 × 2,5	15,2	288,0	498
0110131	14 × 2,5	16,1	336,0	569
0110132	18 × 2,5	18,1	432,0	764
0110133	21 × 2,5	20,4	504,0	914
0110134	25 × 2,5	22,2	600,0	1044
0110135	34 × 2,5	25,1	816,0	1470
0110136	42 × 2,5	27,2	1008,0	1790
0110137	50 × 2,5	30,0	1200,0	2095
0110138	61 × 2,5	32,0	1464,0	2750
0110139	100 × 2,5	41,0	2400,0	4450
0110140 OZ	2 × 4	9,2	77,0	195
0110141	3 × 4	9,9	115,0	230
0110142	4 × 4	11,0	154,0	295
0110143	5 × 4	12,1	192,0	361
0110144	7 × 4	13,3	269,0	458
0110145	8 × 4	15,9	307,0	590
0110146	12 × 4	18,3	461,0	790
0110147	3 × 6	11,7	173,0	355
0110148	4 × 6	13,0	230,0	424
0110149	5 × 6	14,5	288,0	525
0110150	7 × 6	16,0	403,0	625
0110151	3 × 10	15,0	288,0	540
0110152	4 × 10	16,8	384,0	701
0110153	5 × 10	18,7	480,0	858
0110154	7 × 10	20,6	672,0	1106
0110190	3 × 16	17,6	461,0	827
0110155	4 × 16	19,7	614,0	1035
0110156	5 × 16	21,9	768,0	1259
0110157	7 × 16	24,4	1075,0	1780
0110191	3 × 25	22,5	720,0	1186
0110158	4 × 25	25,2	960,0	1582
0110159	5 × 25	27,9	1200,0	1999
0110160	7 × 25	31,0	1680,0	2825