FLEX-JZ 500
Flexible, Number Coded

Voltage : 300 / 500 V

Temp. : 80 °C

Application

FLEX-JZ 500 is meant to use in medium mechanical stress area with free movement but without tensile stress or forced movements. Applicable in dry, moist and wet environment but not suitable for outdoor. It is used as measuring and controls cables in machines tool, conveyor belts, production lines in machinery production, in air-conditioning and in steel production. The cores are numbered in such a way that there is no difficulty in identifying them and the numbers are underlined to avoid confusion with the earth core laid on the outer layer. The selected PVC compound guarantee flexibility as well as easy installation.

Cable Construction

- Fine strand of bare copper conductors according to DIN VDE 0295 class 5 and IEC 60228
- PVC insulation
- Black cores with continuous white numbering accordance to DIN VDE 0293
- Green-yellow earth core in the outer layer
- Cores stranded in layers
- PVC outersheath, TM2 to DIN VDE 0281 part 1, colour grey
- Oil & chemical resistance
- PVC self-extinguishing and flame retardant, test method B according to VDE 0472 part 804 and IEC 60332-1

Technical Data

Standard	:	According to DIN VDE 0245, 0281, 0293, 0295
Nominal voltage	:	Uo/U 300/500 V
Temperature range	:	Flexing : – 5°C to + 80°C
		Fixed laying : – 40°C to + 80°C
Testing voltage	:	3 KV, 50 Hz
Spark test	:	6 KV
Insulation resistance	:	Min. 20 MOhm x km
Min. bending radius	:	7.5 x cable diameter

** Type OZ : Without earth core (G/Y)*

Item No.	No. Of Core x Section mm²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
100001	OZ 2 x 0.5	4.7	9.6	40
100002	3 x 0.5	5.0	14.4	46
100003	4 x 0.5	5.8	19.0	56
100004	5 x 0.5	6.3	24.0	65
100005	6 x 0.5	6.7	29.0	75
100006	7 x 0.5	7.5	33.6	80
100007	8 x 0.5	8.0	38.0	97
100008	10 x 0.5	8.9	48.0	116
100009	12 x 0.5	9.0	58.0	135
100010	14 x 0.5	9.5	67.0	150
100011	16 x 0.5	10.1	76.0	175
100012	18 x 0.5	10.8	86.0	196
100013	20 x 0.5	11.1	96.0	215
100014	21 x 0.5	11.7	101.0	240
100015	25 x 0.5	13.1	120.0	270
100016	30 x 0.5	13.6	144.0	310
100017	32 x 0.5	14.0	154.0	323
100018	34 x 0.5	14.4	163.0	362
100019	40 x 0.5	15.2	192.0	434
100020	42 x 0.5	15.5	202.0	449
100021	50 x 0.5	17.2	240.0	513
100022	52 x 0.5	17.4	252.0	534
100023	61 x 0.5	19.5	239.0	625
100024	65 x 0.5	19.8	312.0	682

Item No.	No. Of Core x Section mm²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
100025	80 x 0.5	21.5	384.0	780
100026	100 x 0.5	23.8	480.0	980
100027	OZ 2 x 0.75	5.3	14.4	46
100028	3 x 0.75	5.6	21.6	54
100029	4 x 0.75	6.1	29.0	66
100030	5 x 0.75	6.9	36.0	80
100031	6 x 0.75	7.4	43.0	99
100032	7 x 0.75	8.0	50.0	110
100033	8 x 0.75	8.8	58.0	130
100034	9 x 0.75	9.4	65.0	153
100035	10 x 0.75	9.7	72.0	162
100036	12 x 0.75	10.0	86.0	179
100037	14 x 0.75	10.7	101.0	214
100038	15 x 0.75	11.1	108.0	218
100039	18 x 0.75	11.8	130.0	257
100040	19 x 0.75	12.3	137.0	264
100041	20 x 0.75	12.7	144.0	286
100042	21 x 0.75	13.4	151.0	320
100043	25 x 0.75	14.4	180.0	365
100044	27 x 0.75	15.3	195.0	382
100045	32 x 0.75	15.7	230.0	455
100046	34 x 0.75	16.5	245.0	510
100047	37 x 0.75	17.3	260.0	537

Continuation ➤➤➤

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Item No.	No. Of Core x Section mm²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
100048	40 x 0.75	17.7	288.0	595
100049	41 x 0.75	17.8	296.0	607
100050	42 x 0.75	17.9	302.0	612
100051	50 x 0.75	19.9	360.0	735
100052	61 x 0.75	21.0	439.0	845
100053	65 x 0.75	21.4	468.0	895
100054	80 x 0.75	23.5	576.0	1070
100055	100 x 0.75	26.3	720.0	1322
100056	OZ 2 x 1	5.4	19.2	60
100057	3 x 1	6.0	29.0	72
100058	4 x 1	6.5	38.4	86
100059	5 x 1	7.3	48.0	104
100060	6 x 1	8.1	58.0	125
100061	7 x 1	8.5	67.0	141
100062	8 x 1	9.5	77.0	175
100063	9 x 1	10.2	86.0	200
100064	10 x 1	10.5	96.0	217
100065	12 x 1	10.8	115.0	230
100066	14 x 1	11.4	134.0	271
100067	16 x 1	12.1	154.0	300
100068	18 x 1	12.8	173.0	343
100069	19 x 1	12.9	182.0	355
100070	20 x 1	13.6	192.0	375
100071	21 x 1	14.2	205.0	420
100072	24 x 1	14.8	236.0	440
100073	25 x 1	15.7	240.0	485
100074	26 x 1	15.8	252.0	500
100075	27 x 1	15.9	259.0	534
100076	30 x 1	16.1	308.0	550
100077	34 x 1	17.5	326.0	650
100078	36 x 1	17.8	346.0	668
100079	37 x 1	18.5	355.0	701
100080	40 x 1	19.0	384.0	755
100081	41 x 1	19.2	394.0	770
100082	42 x 1	19.5	403.0	810
100083	50 x 1	21.2	480.0	936
100084	56 x 1	21.6	538.0	920
100085	61 x 1	22.3	586.0	1100
100086	65 x 1	22.9	628.0	1180
100087	80 x 1	25.5	786.0	1294
100088	100 x 1	28.1	960.0	1644
100089	OZ 2 x 1.5	6.2	29.0	70
100090	3 x 1.5	6.8	43.0	90
100091	4 x 1.5	7.4	58.0	109
100092	5 x 1.5	8.3	72.0	131
100093	6 x 1.5	9.0	86.0	157
100094	7 x 1.5	9.9	101.0	184
100095	8 x 1.5	10.5	115.0	216
100096	9 x 1.5	11.6	129.0	259
100097	10 x 1.5	11.8	144.0	275
100098	11 x 1.5	12.2	158.0	300
100099	12 x 1.5	12.4	173.0	309
1000100	14 x 1.5	13.0	202.0	345
1000101	16 x 1.5	13.5	230.0	386
1000102	18 x 1.5	14.6	259.0	440
1000103	19 x 1.5	15.1	279.0	445
1000104	20 x 1.5	15.5	288.0	490
1000105	21 x 1.5	16.2	302.0	555
1000106	25 x 1.5	17.9	360.0	620
1000107	27 x 1.5	19.0	389.0	670
1000108	32 x 1.5	19.2	461.0	790
1000109	34 x 1.5	19.9	490.0	830
1000110	37 x 1.5	20.3	533.0	892
1000111	41 x 1.5	21.1	576.0	996
1000112	42 x 1.5	21.5	605.0	1007
1000113	50 x 1.5	23.8	720.0	1250
1000114	56 x 1.5	25.1	806.0	1332
1000115	61 x 1.5	25.4	878.0	1440

Item No.	No. Of Core x Section mm²	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
1000116	65 x 1.5	25.9	936.0	1602
1000117	80 x 1.5	29.1	1152.0	1871
1000118	100 x 1.5	32.4	1440.0	2353
1000119	OZ 2 x 2.5	7.5	480	112
1000120	3 x 2.5	8.2	72.0	148
1000121	4 x 2.5	9.0	96.0	178
1000122	5 x 2.5	10.3	120.0	221
1000123	7 x 2.5	12.0	168.0	306
1000124	8 x 2.5	13.3	192.0	363
1000125	12 x 2.5	15.1	288.0	498
1000126	14 x 2.5	16.0	336.0	569
1000127	18 x 2.5	18.0	432.0	764
1000128	21 x 2.5	20.5	504.0	914
1000129	25 x 2.5	22.3	600.0	1044
1000130	34 x 2.5	25.0	816.0	1470
1000131	42 x 2.5	27.1	1008.0	1790
1000132	50 x 2.5	30.1	1200.0	2095
1000133	61 x 2.5	32.1	1464.0	2750
1000134	100 x 2.5	41.2	2400.0	4450
1000135	OZ 2 x 4	9.3	77.0	195
1000136	3 x 4	10.0	115.0	230
1000137	4 x 4	11.0	154.0	295
1000138	5 x 4	12.2	192.0	361
1000139	7 x 4	13.4	269.0	458
1000140	8 x 4	16.0	307.0	590
1000141	12 x 4	18.4	461.0	790
1000142	3 x 6	11.8	173.0	355
1000143	4 x 6	13.1	230.0	424
1000144	5 x 6	14.6	288.0	525
1000145	7 x 6	15.9	403.0	625
1000146	3 x 10	15.1	288.0	540
1000147	4 x 10	16.9	384.0	701
1000148	5 x 10	18.8	480.0	858
1000149	7 x 10	20.5	672.0	1106
1000150	3 x 16	17.7	461.0	827
1000151	4 x 16	19.8	614.0	1035
1000152	5 x 16	22.0	768.0	1259
1000153	7 x 16	24.5	1075.0	1780
1000154	3 x 25	22.4	720.0	1186
1000155	4 x 25	25.1	960.0	1582
1000156	5 x 25	28.0	1200.0	1999
1000157	7 x 25	31.1	1680.0	2825
1000158	3 x 35	25.3	1008.0	1585
1000159	4 x 35	28.1	1344.0	2105
1000160	5 x 35	29.4	1680.0	2633
1000161	3 x 50	30.0	1440.0	2550
1000162	4 x 50	33.5	1920.0	2940
1000163	5 x 50	37.3	2400.0	3936
1000164	3 x 70	38.0	2016.0	3180
1000165	4 x 70	42.2	2688.0	4090
1000166	5 x 70	46.2	3360.0	5443
1000167	3 x 95	40.0	2736.0	4680
1000168	4 x 95	45.0	3648.0	5540
1000169	5 x 95	50.4	4560.0	6931
1000170	4 x 120	50.4	4608.0	7000
1000171	4 x 150	58.0	5760.0	8340
1000172	4 x 185	63.4	7104.0	9904