



Voltage : 300 / 500 V

Temp. : 80 °C

### Application

**FLEX-JB 500** is used in medium mechanical stresses with free movement without tensile stress or forced movements. It is applicable in dry, moist and wet environment but not suitable for outdoor, it is use as measuring and controls cables in tool machines, conveyor belts, production lines in machinery production, in air-conditioning and in steel production. The earth core is located immediately below the outer jacket.

### Cable Construction

- Fine strand of bare copper conductors according to DIN VDE 0295 class 5 and IEC 60228
- PVC insulation
- Colour coded as per JB/OB
- 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	: U <sub>0</sub> /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 OB : Without earth core (G/Y)

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
102001	OB 2 x 0.5	4.9	9.6	40
102002	3 x 0.5	5.2	14.4	46
102003	4 x 0.5	5.8	19.2	56
102004	5 x 0.5	6.1	24.0	65
102005	6 x 0.5	6.8	29.0	75
102006	7 x 0.5	7.5	34.0	80
102007	8 x 0.5	8.1	38.0	97
102008	10 x 0.5	8.9	48.0	116
102009	12 x 0.5	9.0	58.0	135
102010	14 x 0.5	9.4	67.0	150
102011	16 x 0.5	10.1	77.0	172
102012	21 x 0.5	11.9	101.0	240
102013	24 x 0.5	12.9	128.0	265
102014	27 x 0.5	13.3	130.0	290
102015	30 x 0.5	13.4	144.0	310
102016	35 x 0.5	14.8	168.0	370
102017	40 x 0.5	15.9	192.0	434
102018	52 x 0.5	17.2	250.0	534
102019	OB 2 x 0.75	5.3	14.4	46
102020	3 x 0.75	5.6	21.6	54

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
102021	4 x 0.75	6.2	28.8	66
102022	5 x 0.75	6.9	36.0	80
102023	6 x 0.75	7.4	43.2	99
102024	7 x 0.75	8.0	50.0	110
102025	8 x 0.75	8.8	58.0	130
102026	9 x 0.75	9.4	65.0	153
102027	10 x 0.75	9.5	72.0	162
102028	12 x 0.75	9.9	86.0	179
102029	15 x 0.75	11.1	108.0	218
102030	18 x 0.75	12.0	130.0	257
102031	21 x 0.75	13.2	151.0	320
102032	25 x 0.75	14.4	180.0	365
102033	32 x 0.75	15.5	230.0	455
102034	40 x 0.75	17.5	288.0	595
102035	50 x 0.75	19.9	360.0	699
102036	OB 2 x 1	5.4	19.2	60
102037	3 x 1	6.0	27.0	72
102038	4 x 1	6.5	29.0	86
102039	5 x 1	7.3	48.0	104
102040	6 x 1	8.0	58.0	125

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
102041	7 x 1	8.5	67.0	141
102042	8 x 1	9.5	77.0	175
102043	9 x 1	10.0	87.0	200
102044	10 x 1	10.5	96.0	207
102045	12 x 1	10.8	115.0	230
102046	14 x 1	11.2	134.0	271
102047	16 x 1	12.0	154.0	300
102048	18 x 1	12.8	173.0	343
102049	20 x 1	13.5	192.0	375
102050	24 x 1	14.8	230.0	468
102051	25 x 1	15.5	240.0	485
102052	34 x 1	17.5	326.0	650
102053	48 x 1	19.5	461.0	819
102054	56 x 1	21.6	538.0	920
102055	OB 2 x 1.5	6.2	29.0	70
102056	3 x 1.5	6.6	43.0	90
102057	4 x 1.5	7.3	58.0	109
102058	5 x 1.5	8.3	72.0	131
102059	6 x 1.5	9.0	86.4	157
102060	7 x 1.5	9.9	101.0	184
102061	8 x 1.5	10.5	115.0	216
102062	11 x 1.5	12.0	158.0	300
102063	12 x 1.5	12.0	173.0	309
102064	14 x 1.5	13.0	202.0	345
102065	16 x 1.5	13.5	230.0	386
102066	18 x 1.5	14.6	259.0	440
102067	20 x 1.5	15.3	288.0	490
102068	25 x 1.5	17.9	360.0	620
102069	32 x 1.5	19.0	461.0	790
102070	34 x 1.5	19.9	490.0	830
102071	42 x 1.5	21.5	605.0	1007
102072	50 x 1.5	23.8	720.0	1250
102073	OB 2 x 2.5	9.0	48.0	112
102074	3 x 2.5	9.8	72.0	148
102075	4 x 2.5	11.1	96.0	178
102076	5 x 2.5	12.1	120.0	221
102077	6 x 2.5	13.2	144.0	293
102078	7 x 2.5	14.5	168.0	306
102079	8 x 2.5	16.0	192.0	363
102080	11 x 2.5	17.7	264.0	482
102081	16 x 2.5	20.4	383.0	701
102082	18 x 2.5	21.8	432.0	764
102083	25 x 2.5	26.6	600.0	1044
102084	32 x 2.5	31.7	766.0	1386
102085	50 x 2.5	38.0	1200.0	2095
102086	61 x 2.5	40.0	1464.0	2750

Item No.	No. Of Core x Section mm <sup>2</sup>	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
102087	OB 2 x 4	10.5	76.8	195
102088	3 x 4	11.3	115.0	235
102089	4 x 4	12.6	154.0	295
102090	5 x 4	14.0	192.0	361
102091	7 x 4	16.9	269.0	498
102092	11 x 4	22.2	422.0	767
102093	3 x 6	12.5	173.0	355
102094	4 x 6	14.1	230.0	424
102095	5 x 6	15.6	288.0	525
102096	7 x 6	19.1	403.0	625
102097	3 x 10	16.1	290.0	611
102098	4 x 10	18.1	384.0	701
102099	5 x 10	20.1	480.0	858
1020100	7 x 10	23.0	672.0	1106
1020101	3 x 16	18.6	461.0	912
1020102	4 x 16	20.9	614.0	1035
1020103	5 x 16	23.1	768.0	1259
1020104	7 x 16	31.0	1075.0	1780
1020105	3 x 25	23.2	720.0	1388
1020106	4 x 25	26.1	960.0	1581
1020107	5 x 25	29.0	1200.0	1997
1020108	3 x 35	26.5	1080.0	1767
1020109	4 x 35	29.8	1344.0	2105
1020110	5 x 35	33.0	1680.0	2636
1020111	3 x 50	30.3	1440.0	2556
1020112	4 x 50	34.0	1920.0	2940
1020113	5 x 50	37.5	2400.0	3936
1020114	3 x 70	37.0	2016.0	3182
1020115	4 x 70	41.5	2688.0	4090
1020116	5 x 70	46.2	3360.0	5443
1020117	3 x 95	40.0	2736.0	4676
1020118	4 x 95	44.9	3648.0	5540
1020119	5 x 95	50.3	4560.0	6931
1020120	3 x 120	45.6	3456.0	5630
1020121	4 x 120	50.9	4608.0	7000
1020122	4 x 150	52.9	5760.0	8340
1020123	4 x 185	65.7	7104.0	9904