

## FLEX-JB

PVC, Colored Cores, Non-Shielded, 450/750V



**FLEX-JB** is our most standard PVC, flexible, oil resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp or wet conditions. The **FLEX-JB** construction offers the new European VDE-0293-308 color code including a green/yellow ground wire. For use in flexible and stationary applications under medium mechanical stress with free movement without any tensile stress, load or forced movements. Common applications include connections and control to CNC machines, machine tools, control systems, assembly lines, control panel to machine connections, grinding machines and bottling equipment. Found in plant engineering, paint shops, power stations and refrigeration plants. Outdoor installation is not permitted.

### ► Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Special PVC core insulation
- Color code VDE-0293-308
- For 6 cores and up, use *JB Full Color* chart
- Ground wire in outer layer
- PVC outer jacket - gray (RAL 7001)
- "OB" denotes no ground wire
- *Extremely oil & chemical resistant*

### ► Technical:

- Working voltage: 300/500 volts\*\*
- Test voltage: 4000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -5° C to +70° C
- Static temp: -30° C to +80° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

### ► Approvals:

- VDE-0245, 0281, 0293 & 0295
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

\*\* Voltage for 14 AWG (2,50mm<sup>2</sup>) and Larger is 450/750 Volts.

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
<b>20 AWG (16/32) 0,50mm<sup>2</sup></b>					
1002002	OB 2	0.209"	5.3mm	6	24
1012003	3	0.201"	5.5mm	10	28
1012004	4	0.224"	6.0mm	13	35
1012005	5	0.244"	6.6mm	16	46
1012007	7	0.291"	7.3mm	23	54
1012008	8	0.247"	8.4mm	26	60
1012010	10	0.346"	9.2mm	32	87
1012012	12	0.358"	9.6mm	39	93
1012014	14	0.374"	10.0mm	45	102
1012016	16	0.398"	10.5mm	52	115
1012021	21	0.465"	12.0mm	68	217
1012024	24	0.504"	12.9mm	77	170
1012027	27	0.519"	13.4mm	87	198
1012030	30	0.531"	14.3mm	97	215
1012035	35	0.579"	15.3mm	113	262
1012040	40	0.622"	16.5mm	129	288
1012052	52	0.681"	17.7mm	168	357
<b>18 AWG (24/32) 0,75mm<sup>2</sup></b>					
1001802	OB 2	0.220"	5.6mm	10	36
1011803	3	0.217"	5.5mm	14	46
1011804	4	0.244"	6.2mm	19	54
1011805	5	0.268"	6.8mm	24	68
1011807	7	0.319"	8.1mm	34	82
1011808	8	0.351"	8.9mm	39	91
1011809	9	0.370"	9.4mm	44	106
1011810	10	0.378"	9.6mm	48	127
1011812	12	0.390"	9.9mm	58	136
1011815	15	0.441"	11.2mm	72	166
1011818	18	0.469"	11.9mm	87	188
1011821	21	0.524"	13.3mm	101	197
1011825	25	0.571"	14.5mm	121	265
1011832	32	0.614"	15.6mm	154	310
1011840	40	0.693"	17.6mm	193	411
1011850	50	0.780"	19.8mm	241	523
<b>17 AWG (32/32) 1,00mm<sup>2</sup></b>					
1001702	OB 2	0.260"	6.6mm	13	41
1011703	3	0.236"	6.0mm	19	50
1011704	4	0.260"	6.6mm	26	66
1011705	5	0.283"	7.2mm	32	79
1011707	7	0.339"	8.6mm	45	95

Sizes continued on next page.

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**FLEX-JB Sizes Continued. ( 17, 16 & 14 AWG )**

PART NUMBER		CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1011708		8	0.370"	9.4mm	52	111
1011709		9	0.398"	10.1mm	58	134
1011710		10	0.409"	10.4mm	64	154
1011712		12	0.421"	10.7mm	77	165
1011714		14	0.445"	11.3mm	90	195
1011716		16	0.476"	12.1mm	103	208
1011718		18	0.500"	12.7mm	116	256
1011725		25	0.614"	15.6mm	161	349
1011734		34	0.685"	17.4mm	219	455
1011748		48	0.763"	19.4mm	309	606
1011756		56	0.846"	21.5mm	361	629
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>						
1001602	OB	2	0.283"	7.2mm	19	60
1011603		3	0.264"	6.7mm	29	70
1011604		4	0.287"	7.3mm	39	80
1011605		5	0.323"	8.2mm	48	97
1011607		7	0.386"	9.8mm	68	127
1011608		8	0.417"	10.6mm	77	146
1011609		9	0.453"	11.5mm	87	174
1011610		10	0.461"	11.7mm	97	185
1011612		12	0.476"	12.1mm	116	214
1011614		14	0.508"	12.9mm	135	227
1011616		16	0.535"	13.6mm	154	288
1011618		18	0.571"	14.5mm	174	323
1011620		20	0.598"	15.2mm	193	378
1011625		25	0.701"	17.8mm	241	439
1011632		32	0.752"	19.1mm	309	534
1011634		34	0.780"	19.8mm	329	582
1011642		42	0.843"	21.4mm	406	711
1011650		50	0.933"	23.7mm	483	838
<b>14 AWG (50/30) 2,50mm<sup>2</sup></b>						
1001402	OB	2	0.362"	9.2mm	32	83
1011403		3	0.389"	9.9mm	48	98
1011404		4	0.433"	11.0mm	64	133
1011405		5	0.472"	12.0mm	80	158
1011407		7	0.575"	14.6mm	126	221
1011408		8	0.633"	16.1mm	129	256
1011412		12	0.708"	18.0mm	177	327
1011416		16	0.807"	20.5mm	258	490
1011418		18	0.854"	21.7mm	290	553
1011421		21	0.933"	23.7mm	338	564
1011425		25	1.043"	26.5mm	402	724
1011432		32	1.251"	31.8mm	514	899
1011450		50	1.496"	38.0mm	805	1368
1011461		61	1.575"	40.0mm	982	1629
<b>12 AWG (56/28) 4,00mm<sup>2</sup></b>						
1001202	OB	2	0.425"	10.8mm	52	124
1011203		3	0.441"	11.2mm	77	131
1011204		4	0.492"	12.5mm	103	188

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**FLEX-JB Sizes Continued. ( 12 AWG and Larger)**

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1011205	5	0.547"	13.9mm	129	233
1011207	7	0.661"	16.8mm	180	329
1011212	12	0.878"	22.3mm	317	530
<b>10 AWG (84/28) 6,00mm<sup>2</sup></b>					
1011003	3	0.496"	12.6mm	116	223
1011004	4	0.551"	14.0mm	154	268
1011005	5	0.610"	15.5mm	193	349
1011007	7	0.748"	19.0mm	270	456
<b>8 AWG (80/26) 10,0mm<sup>2</sup></b>					
1010803	3	0.630"	16.0mm	193	362
1010804	4	0.713"	18.1mm	258	480
1010805	5	0.799"	20.3mm	322	557
1010807	7	0.909"	23.1mm	451	711
<b>6 AWG (128/26) 16,0mm<sup>2</sup></b>					
1010603	3	0.728"	18.5mm	309	444
1010604	4	0.818"	20.8mm	412	617
1010605	5	0.906"	23.0mm	515	802
<b>4 AWG (200/26) 25,0mm<sup>2</sup></b>					
1010403	3	0.917"	23.3mm	483	795
1010404	4	1.024"	26.0mm	644	1073
1010405	5	1.142"	29.0mm	805	1348
<b>2 AWG (280/26) 35,0mm<sup>2</sup></b>					
1010203	3	1.047"	26.6mm	676	1063
1010204	4	1.169"	29.7mm	901	1429
1010205	5	1.303"	33.1mm	1127	1751
<b>1 AWG (400/26) 50,0mm<sup>2</sup></b>					
1010103	3	1.189"	30.2mm	966	1714
1010104	4	1.335"	33.9mm	1288	1979
<b>2/0 AWG (356/24) 70,0mm<sup>2</sup></b>					
1012103	3	1.461"	37.1mm	1352	2134
1012104	4	1.638"	41.6mm	1803	2737
<b>3/0 AWG (485/24) 95,0mm<sup>2</sup></b>					
1013104	4	1.764"	44.8mm	2447	3696
<b>4/0 AWG (614/24) 120,0mm<sup>2</sup></b>					
1014104	4	1.999"	50.8mm	3091	4662
<b>300 MCM (765/24) 150,0mm<sup>2</sup></b>					
1013004	4	2.078"	52.8mm	3863	5593
<b>350 MCM (944/24) 185,0mm<sup>2</sup></b>					
1013504	4	2.591"	65.8mm	4764	6642