

## FLEX-JB Colored Cores with Ground



**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 and 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 or stationary applications under medium mechanical stress with free movement without any tensile stress, loads 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	CU LBS/MFT	WT LBS/MFT
<b>20 AWG (16/32) 0,50mm<sup>2</sup></b>				
1002002 OB	2	0.189" / 4.8mm	7	27
1012003	3	0.201" / 5.1mm	10	30
1012004	4	0.224" / 5.7mm	13	38
1012005	5	0.244" / 6.2mm	16	44
1012007	7	0.291" / 7.4mm	23	54
1012008	8	0.247" / 8.0mm	25	65
1012010	10	0.346" / 8.8mm	32	77
1012012	12	0.358" / 9.1mm	38	91
1012014	14	0.374" / 9.5mm	45	101
1012016	16	0.398" / 10.1mm	52	117
1012021	21	0.465" / 11.8mm	68	161
1012024	24	0.504" / 12.8mm	86	177
1012027	27	0.519" / 13.2mm	93	195
1012030	30	0.531" / 13.5mm	96	217
1012035	35	0.579" / 14.7mm	113	248
1012040	40	0.622" / 15.8mm	129	291
1012052	52	0.681" / 17.3mm	167	358
<b>18 AWG (24/32) 0,75mm<sup>2</sup></b>				
1001802 OB	2	0.205" / 5.2mm	9	31
1011803	3	0.217" / 5.5mm	15	36
1011804	4	0.244" / 6.2mm	19	44
1011805	5	0.268" / 6.8mm	24	54
1011807	7	0.319" / 8.1mm	34	74
1011808	8	0.351" / 8.9mm	39	87
1011809	9	0.370" / 9.4mm	44	102
1011810	10	0.378" / 9.6mm	48	109
1011812	12	0.390" / 9.9mm	58	120
1011815	15	0.441" / 11.2mm	72	148
1011818	18	0.469" / 11.9mm	87	172
1011821	21	0.524" / 13.3mm	101	215
1011825	25	0.571" / 14.5mm	121	245
1011832	32	0.614" / 15.6mm	154	305
1011840	40	0.693" / 17.6mm	199	407
1011850	50	0.780" / 19.8mm	241	493

Sizes continued on next page.

## FLEX-JB Colored Cores with Ground



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

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>17 AWG (32/32) 1,00mm<sup>2</sup></b>				
1001702 OB	2	0.217" / 5.5mm	13	40
1011703	3	0.236" / 6.0mm	25	48
1011704	4	0.260" / 6.6mm	32	58
1011705	5	0.283" / 7.2mm	39	70
1011707	7	0.339" / 8.6mm	52	95
1011708	8	0.370" / 9.4mm	58	117
1011709	9	0.398" / 10.1mm	64	134
1011710	10	0.409" / 10.4mm	77	146
1011712	12	0.421" / 10.7mm	90	154
1011714	14	0.445" / 11.3mm	103	182
1011716	16	0.476" / 12.1mm	116	201
1011718	18	0.500" / 12.7mm	138	230
1011725	25	0.614" / 15.6mm	174	325
1011734	34	0.685" / 17.4mm	258	436
1011725	25	0.614" / 15.6mm	174	325
1011748	48	0.763" / 19.4mm	309	549
1011756	56	0.846" / 21.5mm	393	684
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>				
1001602 OB	2	0.248" / 6.3mm	19	47
1011603	3	0.264" / 6.7mm	29	60
1011604	4	0.287" / 7.3mm	39	73
1011605	5	0.323" / 8.2mm	48	88
1011607	7	0.386" / 9.8mm	68	123
1011608	8	0.417" / 10.6mm	77	145
1011609	9	0.453" / 11.5mm	87	174
1011610	10	0.461" / 11.7mm	97	185
1011612	12	0.476" / 12.1mm	116	207
1011614	14	0.508" / 12.9mm	135	231
1011616	16	0.535" / 13.6mm	154	259
1011618	18	0.571" / 14.5mm	174	295
1011620	20	0.598" / 15.2mm	193	329
1011625	25	0.701" / 17.8mm	241	416
1011632	32	0.752" / 19.1mm	309	534
1011634	34	0.780" / 19.8mm	330	557
1011642	42	0.843" / 21.4mm	406	675
1011650	50	0.933" / 23.7mm	483	838
<b>14 AWG (50/30) 2,50mm<sup>2</sup></b>				
1001402 OB	2	0.358" / 9.1mm	32	75
1011403	3	0.389" / 9.9mm	48	99
1011404	4	0.433" / 11.0mm	64	119
1011405	5	0.472" / 12.0mm	80	148
1011407	7	0.575" / 14.6mm	112	205
1011408	8	0.633" / 16.1mm	129	244
1011412	12	0.708" / 18.0mm	177	330
1011416	16	0.807" / 20.5mm	257	470
1011418	18	0.854" / 21.7mm	289	512
1011421	21	0.933" / 23.7mm	346	606
1011425	25	1.043" / 26.5mm	402	700
1011432	32	1.251" / 31.8mm	513	929
1011450	50	1.496" / 38.0mm	805	1405
1011461	61	1.575" / 40.0mm	981	1844

Sizes continued on next page.

## FLEX-JB Colored Cores with Ground



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

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>12 AWG (56/28) 4,00mm<sup>2</sup></b>				
1001202 OB	2	0.409" / 10.4mm	52	131
1011203	3	0.441" / 11.2mm	77	154
1011204	4	0.492" / 12.5mm	103	198
1011205	5	0.547" / 13.9mm	129	242
1011207	7	0.661" / 16.8mm	180	307
1011212	12	0.878" / 22.3mm	309	530
<b>10 AWG (84/28) 6,00mm<sup>2</sup></b>				
1011003	3	0.496" / 12.6mm	116	238
1011004	4	0.551" / 14.0mm	154	284
1011005	5	0.610" / 15.5mm	193	352
1011007	7	0.748" / 19.0mm	270	419
<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	470
1010805	5	0.799" / 20.3mm	322	575
1010807	7	0.909" / 23.1mm	451	741
<b>6 AWG (128/26) 16,0mm<sup>2</sup></b>				
1010603	3	0.728" / 18.5mm	309	555
1010604	4	0.818" / 20.8mm	412	694
1010605	5	0.906" / 23.0mm	515	844
<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	1061
1010405	5	1.142" / 29.0mm	805	1341
<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	1412
1010205	5	1.303" / 33.1mm	1127	1766
<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	1287	1972
<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	2743
<b>3/0 AWG (485/24) 95,0mm<sup>2</sup></b>				
1013103	3	1.638" / 40.1mm	1835	3136
1013104	4	1.764" / 44.8mm	2447	3715
<b>4/0 AWG (614/24) 120,0mm<sup>2</sup></b>				
1014103	3	1.791" / 45.5mm	2318	3776
1014104	4	1.999" / 50.8mm	3090	4695
<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
<b>500 MCM (1225/24) 240,0mm<sup>2</sup></b>				
1015004	4	2.996" / 76.1mm	6181	7076

\* Additional sizes may be available.