

## FLEX-JZ Black & Numbered Cores



**FLEX-JZ** 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. 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 Cl-5
- Special PVC core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- PVC outer jacket - gray (RAL 7001)
- "OZ" 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

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>20 AWG (16/32) 0,50mm<sup>2</sup></b>				
1022002 OZ	2	0.189" / 4.8mm	7	27
1032003	3	0.201" / 5.1mm	10	30
1032004	4	0.224" / 5.7mm	13	38
1032005	5	0.244" / 6.2mm	16	44
1032007	7	0.291" / 7.4mm	23	54
1032012	12	0.358" / 9.1mm	38	91
1032014	14	0.374" / 9.5mm	45	101
1032016	16	0.398" / 10.1mm	52	117
1032018	18	0.421" / 10.7mm	58	131
1032021	21	0.465" / 11.8mm	68	161
1032025	25	0.512" / 13.0mm	80	181
1032030	30	0.531" / 13.5mm	96	217
1032034	34	0.571" / 14.5mm	109	242
1032040	40	0.622" / 15.8mm	129	291
1032050	50	0.681" / 17.3mm	161	344
1032061	61	0.728" / 18.5mm	197	404
1032065	65	0.764" / 19.4mm	209	457
1032080	80	0.839" / 21.3mm	258	523
1032000	100	0.933" / 23.7mm	322	657
<b>18 AWG (24/32) 0,75mm<sup>2</sup></b>				
1021802 OZ	2	0.205" / 5.2mm	9	31
1031803	3	0.217" / 5.5mm	15	36
1031804	4	0.244" / 6.2mm	19	44
1031805	5	0.268" / 6.8mm	24	54
1031807	7	0.319" / 8.1mm	34	74
1031808	8	0.351" / 8.9mm	39	87
1031809	9	0.370" / 9.4mm	44	102
1031810	10	0.378" / 9.6mm	48	109
1031812	12	0.390" / 9.9mm	58	120
1031815	15	0.441" / 11.2mm	72	148
1031818	18	0.469" / 11.9mm	87	172
1031821	21	0.524" / 13.3mm	101	215
1031825	25	0.571" / 14.5mm	121	245
1031830	30	0.602" / 15.3mm	148	302
1031834	34	0.646" / 16.4mm	164	342
1031841	41	0.693" / 17.6mm	199	407
1031850	50	0.780" / 19.8mm	241	493
1031865	65	0.846" / 21.5mm	314	600
1031880	80	0.929" / 23.6mm	386	718
1031800	100	1.031" / 26.2mm	482	887

Sizes continued on next page.

## FLEX-JZ Black & Numbered Cores



FLEX-JZ Sizes Continued. ( 17 & 16 AWG )

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>17 AWG (32/32) 1,00mm2</b>				
1021702 OZ	2	0.217" / 5.5mm	13	40
1031703	3	0.236" / 6.0mm	25	48
1031704	4	0.260" / 6.6mm	32	58
1031705	5	0.283" / 7.2mm	39	70
1031706	6	0.315" / 8.0mm	45	84
1031707	7	0.339" / 8.6mm	52	95
1031708	8	0.370" / 9.4mm	58	117
1031709	9	0.398" / 10.1mm	64	134
1031710	10	0.409" / 10.4mm	77	146
1031712	12	0.421" / 10.7mm	90	154
1031714	14	0.445" / 11.3mm	103	182
1031716	16	0.476" / 12.1mm	116	201
1031718	18	0.500" / 12.7mm	138	230
1031721	21	0.555" / 14.1mm	161	282
1031725	25	0.614" / 15.6mm	174	325
1031727	27	0.622" / 15.8mm	207	358
1031730	30	0.634" / 16.1mm	219	369
1031734	34	0.685" / 17.4mm	258	436
1031740	40	0.744" / 18.9mm	270	506
1031742	42	0.764" / 19.4mm	322	544
1031750	50	0.827" / 21.0mm	361	628
1031756	56	0.846" / 21.5mm	393	684
1031765	65	0.898" / 22.8mm	421	791
1031780	80	1.000" / 25.4mm	527	868
1031700	100	1.110" / 28.2mm	644	1103
<b>16 AWG (30/30) 1,50mm2</b>				
1021602 OZ	2	0.248" / 6.3mm	19	47
1031603	3	0.264" / 6.7mm	29	60
1031604	4	0.287" / 7.3mm	39	73
1031605	5	0.323" / 8.2mm	48	88
1031607	7	0.386" / 9.8mm	68	123
1031608	8	0.417" / 10.6mm	77	145
1031609	9	0.453" / 11.5mm	87	174
1031610	10	0.461" / 11.7mm	97	185
1031612	12	0.476" / 12.1mm	116	207
1031614	14	0.508" / 12.9mm	135	231
1031616	16	0.535" / 13.6mm	154	259
1031618	18	0.571" / 14.5mm	174	295
1031621	21	0.634" / 16.1mm	203	372
1031625	25	0.701" / 17.8mm	241	416
1031630	30	0.736" / 18.7mm	288	523
1031632	32	0.752" / 19.1mm	309	534
1031634	34	0.780" / 19.8mm	330	557
1031641	41	0.831" / 21.1mm	386	668
1031642	42	0.843" / 21.4mm	406	675
1031650	50	0.933" / 23.7mm	483	838
1031661	61	0.996" / 25.3mm	589	966
1031665	65	1.028" / 26.1mm	628	1075
1031680	80	1.142" / 29.0mm	773	1255
1031600	100	1.280" / 32.5mm	966	1578

Sizes continued on next page.

## FLEX-JZ Black & Numbered Cores



FLEX-JZ Sizes Continued. ( 14 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>14 AWG (50/30) 2,50mm<sup>2</sup></b>				
1021402 OZ	2	0.299" / 7.6mm	32	75
1031403	3	0.327" / 8.3mm	48	99
1031404	4	0.358" / 9.1mm	64	119
1031405	5	0.402" / 10.2mm	80	148
1031407	7	0.476" / 12.1mm	113	205
1031408	8	0.520" / 13.2mm	129	244
1031412	12	0.598" / 15.2mm	193	334
1031414	14	0.634" / 16.1mm	225	382
1031418	18	0.713" / 18.1mm	290	512
1031421	21	0.803" / 20.4mm	338	613
1031425	25	0.874" / 22.2mm	402	700
1031434	34	0.988" / 25.1mm	547	986
1031442	42	1.071" / 27.2mm	676	1201
1031450	50	1.181" / 30.0mm	805	1405
<b>12 AWG (56/28) 4,00mm<sup>2</sup></b>				
1021202 OZ	2	0.362" / 9.2mm	52	131
1031203	3	0.390" / 9.9mm	77	154
1031204	4	0.433" / 11.0mm	103	198
1031205	5	0.476" / 12.1mm	129	242
1031207	7	0.524" / 13.3mm	180	307
1031212	12	0.720" / 18.3mm	309	530
<b>10 AWG (84/28) 6,00mm<sup>2</sup></b>				
1031003	3	0.461" / 11.7mm	116	238
1031004	4	0.512" / 13.0mm	154	284
1031005	5	0.571" / 14.5mm	193	352
1031007	7	0.634" / 16.1mm	270	419
<b>8 AWG (80/26) 10,0mm<sup>2</sup></b>				
1030803	3	0.591" / 15.0mm	193	362
1030804	4	0.661" / 16.8mm	258	470
1030805	5	0.736" / 18.7mm	322	575
1030807	7	0.811" / 20.6mm	451	741
<b>6 AWG (128/26) 16,0mm<sup>2</sup></b>				
1030603	3	0.693" / 17.6mm	309	555
1030604	4	0.776" / 19.7mm	412	694
1030605	5	0.862" / 21.9mm	515	844
1030607	7	0.961" / 24.4mm	721	1194
<b>4 AWG (200/26) 25,0mm<sup>2</sup></b>				
1030403	3	0.886" / 22.5mm	483	795
1030404	4	0.992" / 25.2mm	644	1061
1030405	5	1.098" / 27.9mm	805	1341
1030407	7	1.220" / 31.0mm	1127	1895
<b>2 AWG (280/26) 35,0mm<sup>2</sup></b>				
1030203	3	0.992" / 25.2mm	676	1063
1030204	4	1.102" / 28.0mm	901	1412
1030205	5	1.153" / 29.3mm	1127	1766

\*\* for sizes larger than #2 AWG (35,0mm<sup>2</sup>) see product FLEX-JB (101)

\* Additional sizes may be available.

Flexible Control Cables