

## FLEX-UL UL/CSA/CE



**FLEX-UL** is PVC, flexible, oil-resistant, multi-conductor power and control cable designed for use in all electrical equipment in dry, damp and wet conditions. Especially designed for the North American market by carrying UL and CSA approvals. 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 (600v UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -5° C to +70° C (90° UL)
- Static temp: -30° C to +80° C (90° UL)
- Flame retardant: IEC 60332.1, FT1
- Insulation resistance: 20 MΩ x km

### Approvals:

- UL Style 2587 VW-1
- UL AWM Style 1012
- CSA AWM I A/B, II A/B FT1
- 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>21 AWG (16/32) 0,50mm<sup>2</sup></b>				
1402102 OZ	2	0.232" / 5.9mm	7	33
1402103	3	0.248" / 6.3mm	9	39
1402104	4	0.264" / 6.7mm	13	46
1402105	5	0.287" / 7.3mm	16	56
1402107	7	0.335" / 8.5mm	23	73
1402109	9	0.381" / 9.7mm	28	92
1402112	12	0.429" / 10.9mm	39	129
1402118	18	0.508" / 12.9mm	58	172
1402125	25	0.610" / 15.5mm	80	240
<b>19 AWG (24/32) 0,75mm<sup>2</sup></b>				
1401902 OZ	2	0.236" / 6.0mm	9	34
1401903	3	0.256" / 6.5mm	14	40
1401904	4	0.280" / 7.1mm	19	48
1401905	5	0.303" / 7.7mm	24	59
1401907	7	0.350" / 8.9mm	34	84
1401909	9	0.425" / 10.8mm	44	102
1401912	12	0.457" / 11.6mm	58	130
1401918	18	0.547" / 13.9mm	87	180
1401925	25	0.661" / 16.8mm	121	257
1401934	34	0.752" / 19.1mm	164	324
1401941	41	0.823" / 20.9mm	198	385
1401950	50	0.906" / 23.0mm	241	478
<b>18 AWG (32/32) 1,00mm<sup>2</sup></b>				
1401802 OZ	2	0.248" / 6.3mm	13	44
1401803	3	0.264" / 6.7mm	19	52
1401804	4	0.287" / 7.3mm	25	70
1401805	5	0.311" / 7.9mm	32	89
1401807	7	0.362" / 9.2mm	45	123
1401809	9	0.441" / 11.2mm	59	154
1401812	12	0.465" / 11.8mm	77	192
1401818	18	0.555" / 14.1mm	116	268
1401825	25	0.673" / 17.1mm	161	382
1401834	34	0.760" / 19.3mm	219	498
1401841	41	0.835" / 21.2mm	264	551
1401850	50	0.921" / 23.4mm	305	642
<b>16 AWG (30/30) 1,50mm<sup>2</sup></b>				
1401602 OZ	2	0.272" / 6.9mm	19	56
1401603	3	0.295" / 7.5mm	28	65
1401604	4	0.319" / 8.1mm	39	79

Sizes continued on next page.

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### FLEX-UL Sizes Continued. ( 16 AWG & Larger )

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
<b>16 AWG (30/30) 1,50mm2 Cont.</b>				
1401605	5	0.343" / 8.7mm	48	91
1401607	7	0.417" / 10.6mm	68	125
1401609	9	0.504" / 12.8mm	87	170
1401612	12	0.528" / 13.4mm	116	212
1401618	18	0.622" / 15.8mm	174	300
1401625	25	0.744" / 18.9mm	241	413
1401634	34	0.854" / 21.7mm	329	580
1401641	41	0.933" / 23.7mm	396	734
1401650	50	1.028" / 26.1mm	483	900
<b>14 AWG (50/30) 2,50mm2</b>				
1401402 OZ	2	0.323" / 8.2mm	32	77
1401403	3	0.343" / 8.7mm	48	96
1401404	4	0.398" / 10.1mm	64	124
1401405	5	0.429" / 10.9mm	80	148
1401407	7	0.516" / 13.1mm	113	197
1401409	9	0.516" / 13.1mm	145	290
1401412	12	0.657" / 16.7mm	193	378
1401418	18	0.772" / 19.6mm	290	573
1401425	25	0.945" / 24.0mm	402	797
<b>12 AWG (56/28) 4,00mm2</b>				
1401203	3	0.441" / 11.2mm	77	156
1401204	4	0.492" / 12.5mm	103	200
1401205	5	0.543" / 13.8mm	129	240
1401207	7	0.642" / 16.3mm	248	309
<b>10 AWG (84/28) 6,00mm2</b>				
1401003	3	0.508" / 12.9mm	116	241
1401004	4	0.559" / 14.2mm	155	270
1401005	5	0.626" / 15.9mm	193	325
1401007	7	0.763" / 19.4mm	270	241
<b>8 AWG (80/26) 10,0mm2</b>				
1400803	3	0.606" / 15.4mm	193	438
1400804	4	0.685" / 17.4mm	258	527
1400805	5	0.787" / 20.0mm	322	438
1400807	7	0.878" / 22.3mm	451	527
<b>6 AWG (128/26) 16,0mm2</b>				
1400603	3	0.732" / 18.6mm	309	566
1400604	4	0.780" / 19.8mm	412	701
1400605	5	0.906" / 23.0mm	515	845
1400607	7	0.965" / 24.5mm	721	1176
<b>4 AWG (200/26) 25,0mm2</b>				
1400403	3	0.921" / 23.4mm	483	805
1400404	4	1.055" / 26.8mm	644	1068
1400405	5	1.126" / 28.6mm	805	1335
1400407	7	1.362" / 34.6mm	1127	1908
<b>2 AWG (280/26) 35,0mm2</b>				
1400203	3	1.035" / 26.3mm	676	1081
1400204	4	1.181" / 30.0mm	901	1424
1400205	5	1.280" / 32.5mm	1127	1752
<b>1 AWG (400/26) 50,0mm2</b>				
1400103	3	1.228" / 31.2mm	965	1778
1400104	4	1.409" / 35.8mm	1287	2051
<b>2/0 AWG (356/24) 70,0mm2</b>				
1402004	4	1.638" / 41.6mm	1803	2853
<b>3/0 AWG (485/24) 95,0mm2</b>				
1403104	4	1.811" / 46.0mm	2447	3865
<b>4/0 AWG (614/24) 120,0mm2</b>				
1404104	4	2.079" / 52.8mm	3091	4883

\* Additional sizes may be available.