

FLEX-UL-CY

UL/CSA/CE



FLEX-UL-CY is PVC, flexible, oil-resistant, overall shielded, 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. Due to the tinned copper braiding, **FLEX-UL-CY** cables are suitable for interference-free data and signal transmissions in signal and control applications where greater electromagnetic compatibility is required. 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 - black & numbered
- Gray PVC inner jacket
- 85% Tinned Copper Braid
- 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: 20 x Ø
- Static bending radius: 6 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
21 AWG (16/32) 0,50mm²				
1412102 OZ	2	0.307" / 7.8mm	20	62
1412103	3	0.319" / 8.1mm	24	83
1412104	4	0.343" / 8.7mm	28	89
1412105	5	0.366" / 9.3mm	32	103
1412107	7	0.417" / 10.6mm	43	128
1412112	12	0.516" / 13.1mm	70	216
1412118	18	0.618" / 15.7mm	99	251
1412125	25	0.720" / 18.3mm	141	292
19 AWG (24/32) 0,75mm²				
1411902 OZ	2	0.319" / 8.1mm	24	66
1411903	3	0.335" / 8.5mm	37	77
1411904	4	0.354" / 9.0mm	45	101
1411905	5	0.390" / 9.9mm	52	123
1411907	7	0.413" / 10.5mm	60	158
1411909	9	0.465" / 11.8mm	77	180
1411912	12	0.551" / 14.0mm	111	238
1411918	18	0.634" / 16.1mm	127	327
1411925	25	0.744" / 18.9mm	184	439
1411934	34	0.803" / 20.4mm	268	578
1411941	41	0.898" / 22.8mm	315	651
18 AWG (32/32) 1,00mm²				
1411802 OZ	2	0.331" / 8.4mm	28	68
1411803	3	0.350" / 8.9mm	42	95
1411804	4	0.374" / 9.5mm	52	117
1411805	5	0.406" / 10.3mm	61	138
1411807	7	0.449" / 11.4mm	79	177
1411809	9	0.520" / 13.2mm	93	218
1411812	12	0.587" / 14.9mm	124	282
1411818	18	0.661" / 16.8mm	204	389
1411825	25	0.772" / 19.6mm	248	514
1411834	34	0.890" / 22.6mm	282	668
1411841	41	0.961" / 24.4mm	388	775
16 AWG (30/30) 1,50mm²				
1411602 OZ	2	0.346" / 8.8mm	47	91
1411603	3	0.366" / 9.3mm	56	118

Sizes continued on next page.

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

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm2 Cont.				
1411604	4	0.398" / 10.1mm	64	158
1411605	5	0.429" / 10.9mm	79	164
1411607	7	0.429" / 13.0mm	114	211
1411609	9	0.595" / 15.1mm	136	241
1411612	12	0.618" / 15.7mm	161	335
1411618	18	0.724" / 18.4mm	238	461
1411625	25	0.882" / 22.4mm	334	637
1411634	34	0.996" / 25.3mm	506	808
1411641	41	1.083" / 27.5mm	540	975
14 AWG (50/30) 2,50mm2				
1411402 OZ	2	0.409" / 10.4mm	54	116
1411403	3	0.429" / 10.9mm	74	148
1411404	4	0.469" / 11.9mm	96	181
1411405	5	0.524" / 13.3mm	122	221
1411407	7	0.618" / 15.7mm	179	287
1411409	9	0.669" / 17.0mm	219	395
1411412	12	0.760" / 19.3mm	274	510
1411418	18	0.913" / 23.2mm	429	765
1411425	25	1.122" / 28.5mm	602	1040
12 AWG (56/28) 4,00mm2				
1411203	3	0.520" / 13.2mm	133	208
1411204	4	0.575" / 14.6mm	156	306
1411205	5	0.626" / 15.9mm	184	357
1411207	7	0.752" / 19.1mm	256	494
10 AWG (84/28) 6,00mm2				
1411003	3	0.602" / 15.3mm	162	276
1411004	4	0.657" / 16.7mm	212	384
1411005	5	0.728" / 18.5mm	276	491
1411007	7	0.823" / 20.9mm	382	645
8 AWG (80/26) 10,0mm2				
1410803	3	0.677" / 17.2mm	279	497
1410804	4	0.803" / 20.4mm	383	663
1410805	5	0.866" / 22.0mm	463	806
1410807	7	1.024" / 26.0mm	651	1169
6 AWG (128/26) 16,0mm2				
1410603	3	0.929" / 23.6mm	443	730
1410604	4	1.016" / 25.8mm	551	1115
1410605	5	1.142" / 29.0mm	756	1356
1410607	7	1.260" / 32.0mm	1014	1824
4 AWG (200/26) 25,0mm2				
1410403	3	1.102" / 28.0mm	732	1306
1410404	4	1.189" / 30.2mm	968	1738
1410405	5	1.339" / 34.0mm	1209	2144
1410407	7	1.535" / 39.0mm	1690	3038
2 AWG (280/26) 35,0mm2				
1410203	3	1.339" / 34.0mm	1007	1812
1410204	4	1.492" / 37.9mm	1267	2198
1410205	5	1.642" / 41.7mm	1698	3038
1 AWG (400/26) 50,0mm2				
1410104	4	1.594" / 40.5mm	1571	2656
2/0 AWG (356/24) 70,0mm2				
1412103	3	1.697" / 43.1mm	1598	2528
1412104	4	1.815" / 47.4mm	2017	3275
3/0 AWG (485/24) 95,0mm2				
1413103	3	1.791" / 45.5mm	2078	3018
1413104	4	1.996" / 50.7mm	2690	4271
4/0 AWG (614/24) 120,0mm2				
1414104	4	2.244" / 57.0mm	3362	5373

* Additional sizes may be available.