FLEX-UL-CY

PVC, UL/CSA/CE, Shielded, 300/500V (600V UL)

FLEX-UL-CY is a PVC, flexible, oil resistant, overall shielded, multi-conductor power and control cable designed for use in electrical equipment in dry, damp or 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 Cl-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
- Oil-resistant to EN 50363-4-1
- *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: -40° 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 2014/35/EU
- ROHS compliant

PART NUMBER		CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
21 AWG (16/32) 0,50mm2						
1412103		3	0.319"	8.1mm	28	67
1412104		4	0.335"	8.5mm	30	77
1412105		5	0.358"	9.1mm	37	93
1412107		7	0.394"	10.0mm	43	107
1412112		12	0.500"	12.7mm	73	182
1412118		18	0.587"	14.9mm	100	247
1412125		25	0.669"	17.0mm	133	317
19 AWG (24/32) 0,75mm2						
1411903		3	0.339"	8.6mm	34	81
1411904		4	0.362"	9.2mm	38	92
1411905		5	0.398"	10.1mm	46	112
1411907		7	0.425"	10.8mm	59	133
1411912		12	0.547"	13.9mm	103	223
1411918		18	0.634"	16.1mm	137	299
1411925		25	0.740"	18.8mm	182	406
1411934		34	0.866"	22.0mm	231	542
18 AWG (32/32) 1,00mm2						
1411802	OZ	2	0.335"	8.5mm	32	78
1411803		3	0.346"	8.8mm	38	82
1411804		4	0.366"	9.3mm	46	99
1411805		5	0.402"	10.2mm	52	116
1411807		7	0.433"	11.0mm	67	139
1411812		12	0.575"	14.6mm	119	245
1411818		18	0.669"	17.0mm	168	338
1411825		25	0.764"	19.4mm	211	447
1411834		34	0.898"	22.8mm	276	609
1411841		41	0.811"	20.6mm	264	543
16 AWG (30/30) 1,50mm2						
1411602	OZ	2	0.354"	9.0mm	37	86

Sizes continued on next page

Mueller Group
EUROPEAN WIRE & CABLE SPECIALISTS

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FLEX-UL-CY Sizes Continued. (12 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1411603	3	0.366”	9.3mm	49	99
1411604	4	0.402"	10.2mm	55	117
1411605	5	0.445"	11.3mm	72	146
1411607	7	0.465"	11.8mm	94	178
1411612	12	0.610"	15.5mm	161	302
1411618	18	0.728"	18.5mm	247	441
1411625	25	0.854"	21.7mm	294	577
1411634	34	0.961"	24.4mm	396	776
1411641	41	0.941"	23.9mm	396	617
14 AWG (50/30) 2,50mm2					
1411403	3	0.413"	10.5mm	72	137
1411404	4	0.457"	11.6mm	92	167
1411405	5	0.504"	12.8mm	115	213
1411407	7	0.551"	14.0mm	151	261
1411412	12	0.709"	18.0mm	247	424
1411418	18	0.831"	21.1mm	344	601
1411425	25	0.969"	24.6mm	457	805
12 AWG (56/28) 4,00mm2					
1411203	3	0.512"	13.0mm	133	192
1411204	4	0.559"	14.2mm	148	241
1411205	5	0.614"	15.6mm	178	288
10 AWG (84/28) 6,00mm2					
1411003	3	0.591"	15.0mm	156	255
1411004	4	0.642"	16.3mm	201	307
1411005	5	0.709"	18.0mm	267	376
8 AWG (80/26) 10,0mm2					
1410804	4	0.787"	20.0mm	371	488
1410805	5	0.882"	22.4mm	447	607
6 AWG (128/26) 16,0mm2					
1410604	4	1.110"	28.2mm	536	790
1410605	5	1.130"	28.7mm	729	943
4 AWG (200/26) 25,0mm2					
1410404	4	1.122"	28.5mm	781	1348
1410405	5	1.339”	34.0mm	1209	2144
2 AWG (280/26) 35,0mm2					
1410204	4	1.248"	31.7mm	1128	1811

Sizes continued on next page

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FLEX-UL-CY Sizes Continued. (1 AWG & Larger)

PART NUMBER	CORES	NOMINAL OD (in)	NOMINAL OD (mm)	CU LBS/ MFT	WT LBS/ MFT
1 AWG (400/26) 50,0mm2					
1410104	4	1.562"	39.7mm	1571	2255
2/0 AWG (356/24) 70,0mm2					
1412004	4	1.763"	44.8mm	2166	3012
3/0 AWG (485/24) 95,0mm2					
1413104	4	1.968"	50.0mm	2689	3714
4/0 AWG (614/24) 120,0mm2					
1414104	4	2.413"	61.3mm	3362	4668