

FLEX-H-UL UL/CE/VW-1



FLEX-H-UL is a low smoke, zero halogen, cost effective, flexible, multi-conductor power and control cable designed for use in all electrical equipment in dry and damp conditions. Especially designed for the North American market by carrying UL AWM style 21089 & 10701 and rated UL 1581 VW-1. 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 to machinery, data processing, production lines, conveyor belts, ventilation and air-conditioning systems. Found in public facilities, airports, railway stations, plant construction, steel mills, offices and in areas exposed to high risk of flame or fires. The flame retardant, halogen-free jacket gives off no corrosive gases and low smoke when exposed to fire, making **FLEX-H-UL** suitable in areas of high risk or potential for fire. Outdoor installation is not permitted.



Construction:

- Fine bare copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Halogen-Free core insulation
- Color code VDE-0293 - black & numbered
- Ground wire in outer layer
- Halogen-free outer jacket - gray (RAL 7001)
- "OZ" denotes no ground wire
- **Low oil & chemical resistant**

Technical:

- Working voltage: 300/500 (600V UL)
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -15° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3, VW-1**
- Insulation resistance: 20 MΩ x km

Approvals:

- UL AWM 10701
- UL AWM 21089
- UL 1581 VW-1
- VDE-0281 Part 14
- 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				
1882102 OZ	2	0.189" / 4.8mm	7	24
1882103	3	0.201" / 5.1mm	9	28
1882104	4	0.224" / 5.7mm	13	37
1882105	5	0.244" / 6.2mm	16	44
1882107	7	0.267" / 6.8mm	22	54
1882108	8	0.314" / 8.0mm	25	69
1882110	10	0.338" / 8.6mm	32	75
1882112	12	0.350" / 8.9mm	39	86
1882118	18	0.421" / 10.7mm	58	127
1882125	25	0.503" / 12.8mm	80	174
1882130	30	0.519" / 13.2mm	109	197
19 AWG (24/32) 0,75mm2				
1881902 OZ	2	0.212" / 5.4mm	9	32
1881903	3	0.224" / 5.7mm	15	38
1881904	4	0.244" / 6.2mm	19	46
1881905	5	0.268" / 6.8mm	24	56
1881907	7	0.291" / 7.4mm	34	70
1881910	10	0.377" / 9.6mm	48	100
1881912	12	0.390" / 9.9mm	58	115
1881916	16	0.465" / 11.8mm	77	169
1881925	25	0.567" / 14.4mm	121	236
1881934	34	0.646" / 16.4mm	164	313
18 AWG (32/32) 1,00mm2				
1881802 OZ	2	0.224" / 5.7mm	13	37
1881803	3	0.236" / 6.0mm	19	45
1881804	4	0.260" / 6.6mm	25	56
1881805	5	0.283" / 7.2mm	32	67
1881807	7	0.315" / 8.0mm	45	87
1881808	8	0.370" / 9.4mm	52	110
1881810	10	0.409" / 10.4mm	64	123
1881812	12	0.417" / 10.6mm	77	142
1881816	16	0.469" / 11.9mm	116	184
1881818	18	0.500" / 12.7mm	116	211
1881825	25	0.598" / 15.2mm	161	288
1881834	34	0.685" / 17.4mm	219	382

Sizes continued on next page.

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FLEX-H-UL Sizes Continued. (16 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
16 AWG (30/30) 1,50mm²				
1881602 OZ	2	0.248" / 6.3mm	19	48
1881603	3	0.264" / 6.7mm	29	59
1881604	4	0.287" / 7.3mm	39	74
1881605	5	0.319" / 8.1mm	48	91
1881607	7	0.350" / 8.9mm	68	117
1881608	8	0.421" / 10.7mm	77	150
1881610	10	0.457" / 11.6mm	97	168
1881612	12	0.472" / 12.0mm	116	194
1881618	18	0.528" / 13.4mm	174	290
1881625	25	0.685" / 17.4mm	241	400
1881634	34	0.772" / 19.6mm	329	527
14 AWG (50/30) 2,50mm²				
1881402 OZ	2	0.299" / 7.6mm	32	74
1881403	3	0.319" / 8.1mm	48	92
1881404	4	0.350" / 8.9mm	64	117
1881405	5	0.494" / 10.0mm	80	146
1881407	7	0.437" / 11.1mm	113	190
1881412	12	0.587" / 14.9mm	193	313
1881418	18	0.701" / 17.8mm	290	467
1881425	25	0.839" / 21.3mm	402	650
12 AWG (56/28) 4,00mm²				
1881203	3	0.390" / 9.9mm	77	143
1881204	4	0.425" / 10.8mm	103	179
1881205	5	0.476" / 12.1mm	129	222
1881207	7	0.528" / 13.4mm	180	290
10 AWG (84/28) 6,00mm²				
1881003	3	0.461" / 11.7mm	116	203
1881004	4	0.512" / 13.0mm	154	260
1881005	5	0.571" / 14.5mm	193	322
1881007	7	0.630" / 16.0mm	270	420
8 AWG (80/26) 10,0mm²				
1880804	4	0.638" / 16.2mm	258	403
1880805	5	0.713" / 18.1mm	322	493
6 AWG (128/26) 16,0mm²				
1880604	4	0.740" / 18.8mm	412	615
1880605	5	0.835" / 21.2mm	515	770
4 AWG (200/26) 25,0mm²				
1880404	4	0.925" / 23.5mm	644	951
1880405	5	1.118" / 28.4mm	805	784
2 AWG (280/26) 35,0mm²				
1880204	4	1.039" / 26.4mm	644	1278

* Additional sizes may be available.

Flexible Control Cables