

FLEX-H Halogen-Free



FLEX-H is a low smoke, zero halogen, 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 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** 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 CI-5
- Special 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
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 3000 volts
- Flexing bending radius: 15 x Ø
- Static bending radius: 5 x Ø
- Flexing temp: -30° C to +70° C
- Static temp: -40° C to +70° C
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 20 MΩ x km

Approvals:

- VDE-0245, 0250, 0281, 0282
- CE Low Voltage Directive 73/23/EEC and 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
20 AWG (16/32) 0,50mm2				
1842002 OZ	2	0.189" / 4.8mm	7	28
1802003 **	3	0.201" / 5.1mm	9	33
1802004 **	4	0.224" / 5.7mm	13	40
1802005 **	5	0.244" / 6.2mm	16	47
1802007	7	0.291" / 7.4mm	22	56
1802008	8	0.314" / 8.0mm	25	67
1802010	10	0.346" / 8.8mm	32	81
1802012	12	0.358" / 9.1mm	39	95
1802018	18	0.421" / 10.7mm	58	136
1802020	20	0.440" / 11.2mm	64	152
1802025	25	0.512" / 13.0mm	80	189
1802034	34	0.571" / 14.5mm	109	246
1802041	41	0.622" / 15.8mm	132	279
18 AWG (24/32) 0,75mm2				
1841802 OZ	2	0.205" / 5.2mm	9	31
1801803 **	3	0.217" / 5.5mm	15	37
1801804 **	4	0.244" / 6.2mm	19	46
1801805 **	5	0.268" / 6.8mm	24	55
1801807 **	7	0.319" / 8.1mm	34	76
1801809	9	0.354" / 9.0mm	40	91
1801810	10	0.377" / 9.6mm	48	115
1801812	12	0.390" / 9.9mm	58	122
1801816	16	0.437" / 11.1mm	77	161
1801818	18	0.469" / 11.9mm	87	178
1801820	20	0.499" / 12.7mm	97	195
1801825	25	0.571" / 14.5mm	121	250
1801834	34	0.646" / 16.4mm	164	346
1801841	41	0.693" / 17.6mm	199	409
1801850	50	0.780" / 19.8mm	241	497
17 AWG (32/32) 1,00mm2				
1841702 OZ	2	0.217" / 5.5mm	13	42
1801703 **	3	0.236" / 6.0mm	19	49
1801704 **	4	0.260" / 6.6mm	25	60
1801705	5	0.283" / 7.2mm	32	73
1801707	7	0.339" / 8.6mm	45	101

Sizes continued on next page.

FLEX-H Halogen-Free



FLEX-H Sizes Continued. (17 AWG and Larger)

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
17 AWG (32/32) 1,00mm² Cont.				
1801708	8	0.370" / 9.4mm	52	123
1801710	10	0.409" / 10.4mm	64	150
1801712	12	0.421" / 10.7mm	77	163
1801718	18	0.500" / 12.7mm	116	242
1801725	25	0.598" / 15.2mm	161	333
1801734	34	0.685" / 17.4mm	219	449
1801741	41	0.744" / 18.9mm	264	526
1801750	50	0.827" / 21.0mm	322	639
16 AWG (30/30) 1,50mm²				
1841602 OZ	2	0.248" / 6.3mm	19	47
1801603 **	3	0.264" / 6.7mm	29	63
1801604	4	0.287" / 7.3mm	39	75
1801605	5	0.323" / 8.2mm	48	95
1801607	7	0.386" / 9.8mm	68	128
1801608	8	0.417" / 10.6mm	77	150
1801609	9	0.437" / 11.1mm	86	174
1801610	10	0.460" / 11.7mm	97	189
1801612	12	0.476" / 12.1mm	116	209
1801614	14	0.503" / 12.8mm	133	235
1801618	18	0.571" / 14.5mm	174	302
1801625	25	0.701" / 17.8mm	241	423
1801634	34	0.780" / 19.8mm	329	565
1801641	41	0.839" / 21.3mm	433	662
1801650	50	0.933" / 23.7mm	483	823
1801661	61	0.996" / 25.3mm	589	979
14 AWG (50/30) 2,50mm²				
1841402 OZ	2	0.299" / 7.6mm	32	79
1801403	3	0.327" / 8.3mm	48	101
1801404	4	0.358" / 9.1mm	64	121
1801405	5	0.402" / 10.2mm	80	150
1801407	7	0.476" / 12.1mm	113	212
1801412	12	0.598" / 15.2mm	193	335
1801418	18	0.713" / 18.1mm	290	516
1801425	25	0.874" / 22.2mm	402	702
12 AWG (56/28) 4,00mm²				
1801203	3	0.389" / 9.9mm	77	166
1801204	4	0.433" / 11.0mm	103	201
1801205	5	0.476" / 12.1mm	129	248
1801207	7	0.523" / 13.3mm	180	311
10 AWG (84/28) 6,00mm²				
1801003	3	0.460" / 11.7mm	116	241
1801004	4	0.511" / 13.0mm	154	288
1801005	5	0.570" / 14.5mm	193	355
1801007	7	0.629" / 16.0mm	270	423
8 AWG (80/26) 10,0mm²				
1800803	3	0.590" / 15.0mm	193	369
1800804	4	0.661" / 16.8mm	258	475
1800805	5	0.736" / 18.7mm	322	578
6 AWG (128/26) 16,0mm²				
1800603	3	0.692" / 17.6mm	309	557
1800604	4	0.775" / 19.7mm	412	711
1800605	5	0.862" / 21.9mm	515	852
4 AWG (200/26) 25,0mm²				
1800404	4	0.992" / 25.2mm	644	1069
1800405	5	1.098" / 27.9mm	805	1351

* Additional sizes may be available.

** Sizes available as FLEX-H-OZ (184) - no ground wire construction.

*** For sizes larger than #4 AWG (25,0mm²) see product FLEX-H-JB (182)