

EWKF Heavy-Duty



EWKF is a special 180 Degree C., heavy duty, notch and tear resistant, black silicone multi-core cable for use where there are high temperature fluctuations and increased mechanical stresses. These cables are mainly found in steel mills, foundries, ceramic and glass factories, cooking plants, baking equipment, electric motor engineering, ship building and aircraft construction, heating and lighting systems, hot rolling mills and sauna systems. **EWKF** offers improved values as **E**-better tear resistance, **W**-improved breaking strength propagation, **K**-better notch strength, **F**-increased flexibility. This robust silicone jacket provides added heat-resistance, chemical, oil and acidic resistance as well as longer durability in harsh applications. Also adds hydrolysis and UV-resistance.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 CI-5
- Silicone core insulation
- Color code VDE-0293-308
- For 2 cores color code is brown & blue
- 6+ cores, color code is black & white numbers
- Silicone EWKF outer jacket - black (RAL 9005)
- Notch, tear and UV resistant
- **Extremely oil & chemical resistant**

Technical:

- Working voltage: 300/500 volts
- Test voltage: 2000 volts
- Flexing bending radius: 7.5 x Ø
- Static bending radius: 4 x Ø
- Flexing temp: -25° C to +180° C
- Static temp: -50° C to +180° C
- Short time temp up to +220° C
- Flame retardant: IEC 60332.1
- Insulation resistance: 200 MΩ x km

Approvals:

- VDE-0250 Part 816
- Halogen-free to IEC 60754-1
- Low smoke to IEC 60754-2
- CE low voltage directive 72/23/EEC & 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
18 AWG (24/32) 0,75mm²				
6301802	2	0.252" / 6.4mm	10	36
6301803	3	0.268" / 6.8mm	15	43
6301804	4	0.307" / 7.8mm	19	56
6301805	5	0.335" / 8.5mm	24	68
17 AWG (32/32) 1,00mm²				
6301702	2	0.260" / 6.6mm	13	40
6301703	3	0.291" / 7.4mm	19	52
6301704	4	0.319" / 8.1mm	26	64
6301705	5	0.346" / 8.8mm	32	78
6301707	7	0.374" / 9.5mm	45	101
16 AWG (30/30) 1,50mm²				
6301602	2	0.315" / 8.0mm	19	55
6301603	3	0.335" / 8.5mm	29	66
6301604	4	0.374" / 9.5mm	39	82
6301605	5	0.409" / 10.4mm	48	99
6301607	7	0.441" / 11.2mm	68	125
6301612	12	0.587" / 14.9mm	116	211
6301616	16	0.673" / 17.1mm	155	299
6301620	20	0.728" / 18.5mm	193	379
6301624	24	0.835" / 21.2mm	231	484
14 AWG (50/30) 2,50mm²				
6301402	2	0.370" / 9.4mm	32	91
6301403	3	0.386" / 9.8mm	48	102
6301404	4	0.437" / 11.1mm	64	127
6301405	5	0.488" / 12.4mm	80	154
12 AWG (56/28) 4,0mm²				
6301202	2	0.425" / 10.8mm	52	120
6301203	3	0.449" / 11.4mm	77	156
6301204	4	0.516" / 13.1mm	103	201
6301205	5	0.567" / 14.4mm	129	255
10 AWG (84/28) 6,0mm²				
6301002	2	0.531" / 13.5mm	77	215
6301003	3	0.559" / 14.2mm	116	251
6301004	4	0.591" / 15.0mm	154	288
6301005	5	0.701" / 17.8mm	193	368

* Additional sizes may be available.