

EWKF-C-Si Shielded Heavy-Duty



EWKF-C-Si is a special 180 Degree C., heavy duty, notch and tear resistant black silicone shielded 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-C-Si** offers improved values as **E**-better tear resistance, **W**-improved breaking strength propagation, **K**-better notch strength, **F**-increased flexibility. The robust silicone jacket provides added heat-resistance, chemical, oil and acidic resistance while the internal tinned copper braid shield protects from electromagnetic interference for distortion-free transfers of signals and impulses. Hydrolysis and UV-resistant.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-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 inner jacket - reddish/brown
- 85% tinned copper braid
- 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: 10 x Ø
- Static bending radius: 5 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				
6311802	2	0.339" / 8.6mm	25	70
6311803	3	0.350" / 8.9mm	31	79
6311804	4	0.402" / 10.2mm	38	102
6311805	5	0.429" / 10.9mm	45	118
17 AWG (32/32) 1,00mm²				
6311702	2	0.358" / 9.1mm	29	78
6311703	3	0.382" / 9.6mm	38	95
6311704	4	0.429" / 10.9mm	46	117
6311705	5	0.457" / 11.8mm	54	136
6311707	7	0.484" / 12.3mm	76	168
16 AWG (30/30) 1,50mm²				
6311602	2	0.425" / 10.8mm	39	111
6311603	3	0.441" / 11.2mm	50	126
6311604	4	0.476" / 12.1mm	62	149
6311605	5	0.508" / 12.9mm	81	183
6311607	7	0.559" / 14.2mm	105	229
14 AWG (50/30) 2,50mm²				
6311403	3	0.504" / 12.8mm	82	182
6311404	4	0.547" / 13.9mm	101	220
6311405	5	0.594" / 15.1mm	121	260
12 AWG (56/28) 4,0mm²				
6311203	3	0.563" / 14.3mm	115	242
6311204	4	0.634" / 16.1mm	146	300
6311205	5	0.677" / 17.2mm	176	356
10 AWG (84/28) 6,0mm²				
6311003	3	0.646" / 16.4mm	162	328
6311004	4	0.705" / 17.9mm	204	396
6311005	5	0.763" / 19.4mm	248	473

* Additional sizes may be available.