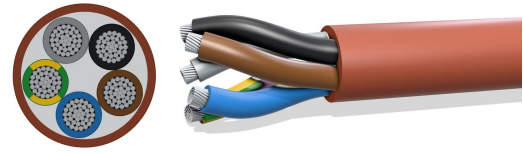


Application

SiHF is a heat-resistant multi-core flexible cable with silicone rubber (SiR) insulation and a silicone rubber sheath, rated 300/500 V, built to the German specification DIN VDE 0250 (VDE). It is the German-designation counterpart of the harmonised cable H05SS-F (EN 50525-2-83) and shares the same CU/SiR/SiR construction. The

fine-wire class 5 tinned copper conductors keep the cable flexible while the silicone insulation and sheath allow continuous operation at up to +180 °C, withstand short-term peaks and thermal shock, and in fire form an insulating ash; the cable is not tested for circuit integrity (functional endurance). SiHF is used to wire heat-exposed equipment and installations - ovens and furnaces, lighting and luminaires, heaters, saunas, boiler and steam plant, and the steel, glass and ceramics industries - as an appliance and connecting cable in dry, damp and wet locations. A glass-fibre-braid-reinforced variant (SiHF/GL) is also available where additional mechanical and abrasion protection is required; the base SiHF on this sheet has the plain silicone insulation and silicone sheath.



CONSTRUCTION

Conductor	Fine-wire stranded tinned (metal-coated) copper, class 5 to IEC/EN 60228 (VDE 0295).
Insulation	Silicone rubber (SiR), compound EI2 to EN 50363-1.
Core colours	To HD 308 S2: 2 cores brown, blue; 3 G green/yellow, brown, blue; 4 G green/yellow + brown, black, grey; 5 G green/yellow + blue, brown, black, grey; higher counts numbered with green/yellow.
Sheath	Silicone rubber (SiR), compound EM9; round; typically red-brown.

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Test voltage	2.0 kV.
Standard	DIN VDE 0250 (VDE); equivalent to harmonised H05SS-F per EN 50525-2-83; conductor IEC/EN 60228 class 5.
Flame-retardant	IEC/EN 60332-1-2.
Halogen-free	Halogen-free acc. to IEC 60754-1.
Max. conductor temperature	+180 °C (short-term +250 °C).
Permitted outer cable temperature, fixed	-50 °C to +180 °C.
Min. bending radius, fixed	4 × outer diameter.
Min. bending radius, moved	15 × outer diameter.
Reaction to fire (CPR)	Outside the scope of EN 50575 (flexible connection cable, not for permanent installation in construction works).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 0.75	26	6.4	59
3 × 0.75	26	6.8	70
4 × 0.75	26	7.6	89
5 × 0.75	26	8.5	112
6 × 0.75	26	9.2	131
7 × 0.75	26	9.2	136
2 × 1	19.5	6.6	66
3 × 1	19.5	7	79
4 × 1	19.5	7.9	101
5 × 1	19.5	8.8	127
7 × 1	19.5	9.5	156
2 × 1.5	13.3	7.6	90
3 × 1.5	13.3	8	109
4 × 1.5	13.3	8.8	134
5 × 1.5	13.3	9.6	163
7 × 1.5	13.3	10.4	202
12 × 1.5	13.3	14	361
16 × 1.5	13.3	16.2	478
20 × 1.5	13.3	17.5	574
24 × 1.5	13.3	19.8	720
2 × 2.5	7.98	8.8	128
3 × 2.5	7.98	9.7	167
4 × 2.5	7.98	10.6	206
5 × 2.5	7.98	11.6	251
7 × 2.5	7.98	12.6	313
2 × 4	4.95	10.8	196
3 × 4	4.95	11.5	241
4 × 4	4.95	12.6	300
5 × 4	4.95	14	374
7 × 4	4.95	15.6	486
2 × 6	3.3	12.4	268
3 × 6	3.3	13.2	333
4 × 6	3.3	14.7	425
5 × 6	3.3	16.6	538
7 × 6	3.3	18.6	705
4 × 10	1.91	19.4	707
5 × 10	1.91	21.6	878
4 × 16	1.21	21.4	1004

Outer diameters and weights are nominal manufacturer values of the leading reference source; conductor resistance is the maximum per IEC/EN 60228 class 5. G = with green/yellow protective conductor. All values are indicative and non-binding.