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High Temperature Cables

SIHF Silicone Heat Resistant Multi-Core Cable

180°C, 300/500V



Application

Silicone cables are recommended for installations where for short periods of time the temperature can fluctuate from high to low. This would cause standard type cables to become inflexible and brittle.

- Steel mills.
- · Consumer white goods.
- · Ceramic and glass factories.
- High temperature applications.

Specifications

- In accordance with VDF 0250
- Conductors: Tinned copper conductors.
- Insulation: Silicone rubber insulation
- Core Identification:
 - 2 core blue, brown.
 - 3 core green/yellow, blue, brown.
 - 4 core green/yellow, brown, black, grey.

- Red/brown overall Silicone rubber jacket.
 Also available in white
- **Temperature Range:** -60° C to $+180^{\circ}$ C maximum conductor operating temperature.
- Voltage Rating: 300/500V.

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Anixter Number	Conductor Area mm²	Number of Cores	Nominal Conductor Stranding #/mm	Overall Diameter Nominal mm	Approx Weight kg/km
SIHF 300/500 V Type	es:				
SIHF-2C-0010-01	1.0	2	32/0.20	6.7	60
SIHF-3C-0010-01	1.0	3	32/0.20	7.5	78
SIHF-4C-0010-01	1.0	4	32/0.20	8.1	95
SIHF-2C-0015-01	1.5	2	30/0.25	7.6	82
SIHF-3C-0015-01	1.5	3	30/0.25	8.1	99
SIHF-4C-0015-01	1.5	4	30/0.25	8.9	123
SIHF-2C-0025-01	2.5	2	50/0.25	9.4	135
SIHF-3C-0025-01	2.5	3	50/0.25	9.9	153
SIHF-4C-0025-01	2.5	4	50/0.25	10.7	189

Also available with larger conductor counts.

Large conductor sizes available.

For current ratings refer to Section 2, Flexible Cables & Cords page 2:42.



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Technical Specifications for Flexible Cords

Applicable to: 2491X, 218*Y, 318*Y, 309*Y, 318*B, 318*P, 318*TQ, 398*P H05V-K, H03W-F, H05W-F, H05V2V2-F, H05ZZ-F, H05RN-F, H05BN4-F, H07RN-F

CORRECTION FACTOR FOR AMBIENT TEMPERATURE

60°C rubber and PVC cords:

Ambient air temp °C	35	40	45	50	55
Rating factor	0.91	0.82	0.71	0.58	0.41

90°C rubber cords having a HOFR sheath or a heat-resisting PVC sheath and for 90°C heat-resisting PVC cords:

Ambient air temp °C	35 - 50	55	60	65	70
Rating factor	1.0	0.96	0.83	0.67	0.47

180°C rubber cords:

Ambient air temp °C	35 - 150	155	160	165	170	175
Rating factor	1.0	0.92	0.82	0.71	0.57	0.40

For cables where four or more cores or loaded, the following factors should be applied:

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No. of cores loaded	4	5	6	7	10	12	14	19	24
Rating factor	0.78	0.72	0.67	0.63	0.56	0.53	0.51	0.45	0.42
No. of cores loaded	27	30	37	-	-	-	-	-	-
Rating factor	0.40	0.39	0.36	-	-	-	-	-	-

These factors need not be applied if the number of cores loaded does not exceed the square root of the total number of cores in the cable.

BS6500, H05V-K, H03VV-F, H05VV-F, H05V2V2-F, H05ZZ-F, H05RN-F, H05BN4-F, H07RN-F

CURRENT CARRYING CAPACITY (Amperes):

Conductor Cross Sectional Area	Current Carrying Capacity		
1	Single Phase a.c. 2	Three Phase a.c.	
mm²	A	A	
0.5	3	3	
0.75	6	6	
1	10	10	
1.25	13	-	
1.5	16	16	
2.5	25	20	
4	32	25	

VOLTAGE DROP (per Ampere per metre):

Conductor operating temperature: 60°C*

Conductor Cross Sectional Area 1	d.c. or Single Phase a.c. 2	Three Phase a.c. 3
mm²	mV	mV
0.5	93	80
0.75	62	54
1	46	40
1.25	37	-
1.5	32	27
2.5	19	16
4	12	10

*NOTE: The tabulated values above are for 60°C rubber insulated and PVC-insulated flexible cords and for other types of flexible cords they are to be multiplied by the following factors:

For 90 $^{\circ}$ C rubber or PVC insulated 1.09.

180°C rubber insulated 1.31.



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