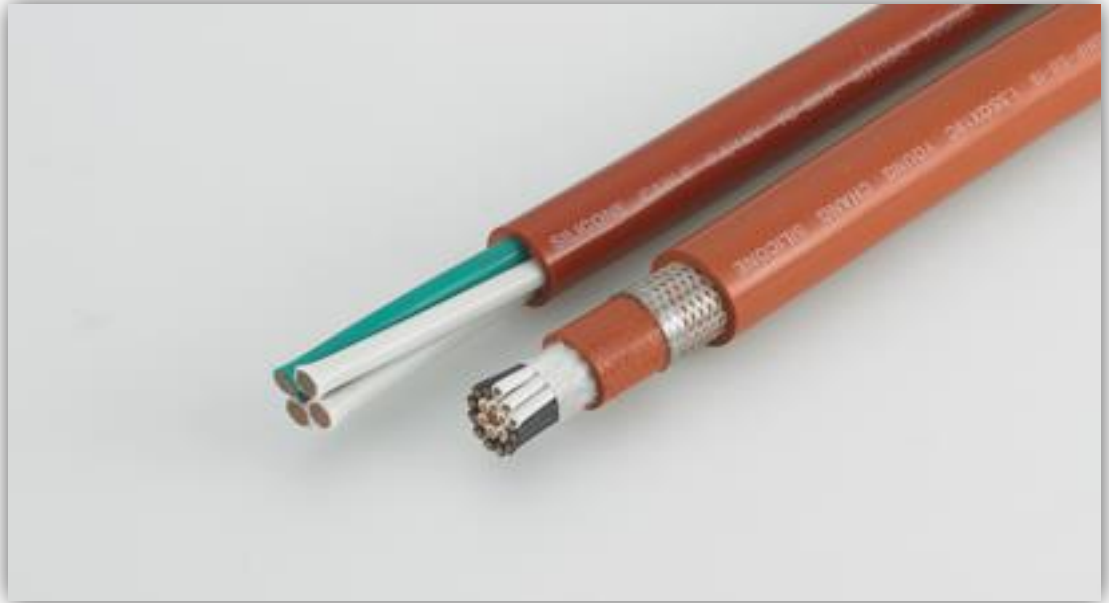




Silicone Heat Resistant Cable Series

Super flexibility / High sheath Strengthness / Most customized properties



Applications

SIF/SIHF is a specialized silicone multi/single-core cable for use in high voltage and high strength extruded with silicone heat resistant rubber or whenever the insulation is subject to extreme temperature changes. SIF/SIHF cables are mainly found in steel producing industry as well as in cement, glass, ceramic factories and ship building,.

SIF/SIHF cables are low-smoke and halogen-free especially suited for use in power plants. The silicone jacket provides added heat, chemical, oil and acidic resistance. Not permitted for outdoor use.

Operating Temperature Range
-65°C ~ 200°C (Max. 230°C)

UL approved :

- E120271 Silicone Jacket Cable

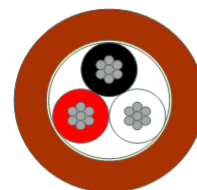
Assortment

SIF : Single conductor cable
SIHF : Multi-conductor cable
SIHF-SB : Multi-conductor cable with inner shield
SIF-GL : SIF + Outer Glass Braiding
SIHF-GL(S) : SIHF + Outer Glass (+ Steel) Braiding
SIHF-TP(S) : SIHF + Twisted Pair

YOUNG CHANG SILICONE CO., LTD. SINCE 1986
205-16, Gasandigital 1-ro, Geumcheon-gu, Seoul, Korea
<http://www.siliconewire.co.kr> / ycsc@ycsc.co.kr
Tel. 82-2-808-2777 / Fax. 82-2-803-8380

SIHF

(*Silicone Multi Conductor Type*)
- 60°C to + 180°C / high flexibility



<< Cable structure >>

- # Conductor : Tinned fine wire copper (IEC 60228 calss 5)
- # Insulation : Silicone Rubber (From 1C to 5C : color distinction / more than 6C : numbering marking)
- # Sheath : Silicone Rubber (Basic color : Red-brown)

<< Characteristics >>

< Physical / Chemical >

- # Continuous working temperature
: - 60°C ~ + 180°C / Peaks at +230°C
- # Excellent Flexibility
- # Excellent ageing resistance
- # Good Resistance to thermal shock

< Electrical >

- # Working voltage : 0.6/1kV
- # Test voltage : 2,000V
- # Insulation resistance : Min. 200MΩkm

<Approvals>

- # UL A.W.M. (E120271)
- # RoHS
- # Halogen free

< Option >

- # Other cross-sections or strandings
- # Customized colours
- # Out diameter relies on operating voltage
- # Bending Radius : 8D (MV:5D)
- # ST / MV
- # Flame retardant : IEC 60332-1-2

<Packaging>

- # Rolls / Spools / Drums

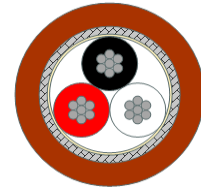
<<Application>>

- # Inner wiring for facility, requiring the use of highly flexible cables
- # Especially widely used in hot environments up to 180°C
- # Wiring in furnaces, ovens, glass, steel, cement, ceramic and iron works

SIHF					
Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.
2 x 0.5	6.3	14 x 1.5	16.9	2 x 6.0	13.4
3 x 0.5	6.6	16 x 1.5	18.3	3 x 6.0	14.6
4 x 0.5	7.7	18 x 1.5	19.2	4 x 6.0	16.1
5 x 0.5	8.3	19 x 1.5	19.2	5 x 6.0	18.2
6 x 0.5	9.0	20 x 1.5	19.7		
7 x 0.5	9.0	24 x 1.5	21.2	2 x 10.0	16.8
		27 x 1.5	22.6	3 x 10.0	18.4
2 x 0.75	6.7	37 x 1.5	25.6	4 x 10.0	20.3
3 x 0.75	7.4				
4 x 0.75	8.2	2 x 2.5	9.9	2 x 16.0	19.9
5 x 0.75	8.9	3 x 2.5	10.5	3 x 16.0	21.1
6 x 0.75	9.8	4 x 2.5	12.1	4 x 16.0	23.8
7 x 0.75	9.8	5 x 2.5	13.1		
		6 x 2.5	14.6	2 x 25.0	23.7
2 x 1.0	7.4	7 x 2.5	14.6	3 x 25.0	25.1
3 x 1.0	7.8	8 x 2.5	15.8	4 x 25.0	28.2
4 x 1.0	8.7	10 x 2.5	18.6		
5 x 1.0	9.6	12 x 2.5	19.4	2 x 35.0	27.3
6 x 1.0	10.3	16 x 2.5	21.5	3 x 35.0	29.0
7 x 1.0	10.3	20 x 2.5	23.6	4 x 35.0	32.9
		24 x 2.5	25.4		
2 x 1.5	8.4			4 x 50.0	39.6
3 x 1.5	8.9	2 x 4.0	12.2		
4 x 1.5	10.0	3 x 4.0	12.9	3 x 75.0	41.3
5 x 1.5	11.3	4 x 4.0	14.7		
6 x 1.5	12.2	5 x 4.0	16.0	3 x 95.0	48.6
7 x 1.5	12.2	6 x 4.0	17.4		
10 x 1.5	15.4	7 x 4.0	17.4		
12 x 1.5	16.1	12 x 4.0	23.6		

SIHF-SB

(Silicone Shield Brading Type)
- 60°C to + 180°C / high flexibility



<< Cable structure >>

- # Conductor : Tinned fine wire copper (IEC 60228 class 5)
- # Insulation : Silicone Rubber (From 1C to 5C : color distinction / more than 6C : numbering marking)
- # Shield : Tinned fine wire copper
- # Sheath : Silicone Rubber (Basic color : Red-brown)

<< Characteristics >>

< Physical / Chemical >

- # Continuous working temperature : - 60°C ~ + 180°C / Peaks at +230°C
- # Excellent Flexibility
- # Excellent ageing resistance
- # Good Resistance to thermal shock

< Electrical >

- # Working voltage : 0.6/1kV
- # Test voltage : 2,000V
- # Insulation resistance : Min. 200MΩkm

<Approvals>

- # RoHS
- # Halogen free

<Packaging>

- # Rolls / Spools / Drums

< Option >

- # Other cross-sections or strandings
- # Customized colours
- # Out diameter relies on operating voltage
- # Bending Radius : 8D (MV:5D)
- # Flame retardant : IEC 60332-1-2

<<Application>>

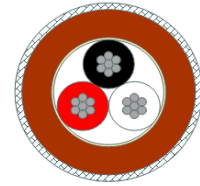
- # Inner wiring for facility, requiring the use of highly flexible cables
- # Especially widely used in hot environments up to 180°C
- # Wiring in furnaces, ovens, glass, steel, cement, ceramic and iron works

SIHF-SB

Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.
2 x 0.5	7.5	4 x 1.5	11.1	2 x 4.0	13.0
3 x 0.5	7.8	5 x 1.5	12.0	3 x 4.0	13.7
4 x 0.5	8.4	6 x 1.5	12.9	4 x 4.0	15.3
5 x 0.5	9.2	7 x 1.5	12.9	5 x 4.0	16.6
6 x 0.5	9.8	10 x 1.5	16.1	6 x 4.0	18.6
7 x 0.5	9.8	12 x 1.5	16.7	7 x 4.0	18.6
		14 x 1.5	18.1		
2 x 0.75	7.9	16 x 1.5	19.0	2 x 6.0	14.6
3 x 0.75	8.3	18 x 1.5	19.9	3 x 6.0	15.4
4 x 0.75	8.9	19 x 1.5	19.9	4 x 6.0	16.8
5 x 0.75	9.8	20 x 1.5	20.4	5 x 6.0	18.9
6 x 0.75	10.5	24 x 1.5	21.8		
7 x 0.75	10.5	27 x 1.5	23.3	2 x 10.0	18.2
		37 x 1.5	26.3	3 x 10.0	19.2
				4 x 10.0	21.0
2 x 1.0	8.3				
3 x 1.0	8.6	2 x 2.5	11.2		
4 x 1.0	9.5	3 x 2.5	11.7	2 x 16.0	20.8
5 x 1.0	10.2	4 x 2.5	12.7	3 x 16.0	22.0
6 x 1.0	11.4	5 x 2.5	13.8	4 x 16.0	24.4
7 x 1.0	11.4	6 x 2.5	15.3		
		7 x 2.5	15.3	2 x 25.0	23.7
2 x 1.5	9.5	10 x 2.5	19.3	3 x 25.0	25.1
3 x 1.5	9.9	12 x 2.5	20.1	4 x 25.0	28.2

SIHF-GL(S)

(SiHF Glass/Steel Braiding Type)
- 60°C to + 180°C / high flexibility



<< Cable structure >>

- # Conductor : Tinned fine wire copper (IEC 60228 class 5)
- # Insulation : Silicone Rubber (From 1C to 5C : color distinction / more than 6C : numbering marking)
- # Sheath : Silicone Rubber (color : Red-brown)
- # Amor : Glass(GL) or Steel(GLS) Braiding

<< Characteristics >>

< Physical / Chemical >

- # Continuous working temperature : - 60°C ~ + 180°C / Peaks at +230°C
- # Excellent Flexibility
- # Excellent ageing resistance
- # Good Resistance to thermal shock

< Electrical >

- # Working voltage : 0.6/1kV
- # Test voltage : 2,000V
- # Insulation resistance : Min. 200MΩkm

<Approvals>

- # RoHS
- # Halogen free

<Packaging>

- # Rolls / Spools / Drums

< Option >

- # Other cross-sections or strandings
- # Customized colours
- # Out diameter relies on operating voltage
- # Bending Radius : 8D (MV:5D)
- # Flame retardant : IEC 60332-1-2

<<Application>>

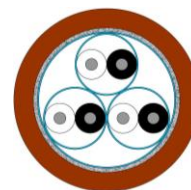
- # Inner wiring for facility, requiring the use of highly flexible cables
- # Especially widely used in hot environments up to 180°C
- # Wiring in furnaces, ovens, glass, steel, cement, ceramic and iron works

SIHF-GL(S)

Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.
2 x 0.5	6.8	14 x 1.5	17.7	2 x 6.0	14.0
3 x 0.5	7.1	16 x 1.5	19.1	3 x 6.0	15.2
4 x 0.5	8.2	18 x 1.5	20.0	4 x 6.0	16.9
5 x 0.5	8.8	19 x 1.5	20.0	5 x 6.0	19.0
6 x 0.5	9.5	20 x 1.5	20.5		
7 x 0.5	9.5	24 x 1.5	22.2	2 x 10.0	17.6
		27 x 1.5	23.6	3 x 10.0	19.2
2 x 0.75	7.2	37 x 1.5	26.6	4 x 10.0	21.3
3 x 0.75	7.9				
4 x 0.75	8.7	2 x 2.5	10.4	2 x 16.0	20.7
5 x 0.75	9.4	3 x 2.5	11.1	3 x 16.0	22.1
6 x 0.75	10.3	4 x 2.5	12.7	4 x 16.0	24.8
7 x 0.75	10.3	5 x 2.5	13.7		
		6 x 2.5	15.2	2 x 25.0	24.7
2 x 1.0	7.9	7 x 2.5	15.2	3 x 25.0	26.1
3 x 1.0	8.3	8 x 2.5	16.6	4 x 25.0	29.2
4 x 1.0	9.2	10 x 2.5	19.4		
5 x 1.0	10.1	12 x 2.5	20.2	2 x 35.0	28.3
6 x 1.0	10.9	16 x 2.5	22.5	3 x 35.0	30.0
7 x 1.0	10.9	20 x 2.5	24.6	4 x 35.0	33.9
		24 x 2.5	26.4		
2 x 1.5	8.9			4 x 50.0	40.6
3 x 1.5	9.4	2 x 4.0	12.8		
4 x 1.5	10.6	3 x 4.0	13.5	3 x 75.0	42.3
5 x 1.5	11.9	4 x 4.0	15.3		
6 x 1.5	12.8	5 x 4.0	16.8	3 x 95.0	49.6
7 x 1.5	12.8	6 x 4.0	18.2		
10 x 1.5	16.2	7 x 4.0	18.2		
12 x 1.5	16.9	12 x 4.0	24.6		

SIHF-TP(S)

(SiHF Glass/Steel Braiding Type)
- 60°C to + 180°C / high flexibility



<< Cable structure >>

- # Conductor : Tinned fine wire copper (IEC 60228 class 5)
- # Insulation : Silicone Rubber (Up to 5 cores / No. marking : More than 6 cores)
- # Sheath : Silicone Rubber (color : Red-brown)
- # Amoe : Glass(GL) or Steel(GLS)

<< Characteristics >>

< Physical / Chemical >

- # Continuous working temperature : - 60°C ~ + 180°C / Peaks at +230°C
- # Excellent Flexibility
- # Excellent ageing resistance
- # Good Resistance to thermal shock

< Electrical >

- # Working voltage : 0.6/1kV
- # Test voltage : 2,000V
- # Insulation resistance : Min. 200MΩkm

<Approvals>

- # RoHS
- # Halogen free

< Option >

- # Other cross-sections or strandings
- # Customized colours
- # Out diameter relies on operating voltage
- # Bending Radius : 8D (MV:5D)
- # ST / MV
- # Flame retardant : IEC 60332-1-2

<Packaging>

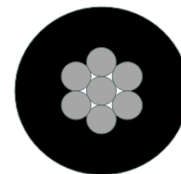
- # Rolls / Spools / Drums

<<Application>>

- # Inner wiring for facility, requiring the use of highly flexible cables
- # Especially widely used in hot environments up to 180°C
- # Wiring in furnaces, ovens, glass, steel, cement, ceramic and iron works

SIHF-TP(S)

Number of pairs and mm ² per conductor	Outer diameter in mm approx.	Number of pairs and mm ² per conductor	Outer diameter in mm approx.
1P - 0.5	6.3	1P - 1.0	7.4
2P - 0.5	9.9	2P - 1.0	11.8
3P - 0.5	10.5	3P - 1.0	12.4
4P - 0.5	11.8	4P - 1.0	13.5
5P - 0.5	13.5	5P - 1.0	15.4
6P - 0.5	14.0	6P - 1.0	16.5
7P - 0.5	14.0	7P - 1.0	16.5
8P - 0.5	15.2	8P - 1.0	18.0
9P - 0.5	16.6	9P - 1.0	19.0
10P - 0.5	17.7	10P - 1.0	20.3
12P - 0.5	18.3	12P - 1.0	21.0
1P - 0.75	6.7	1P - 1.5	8.4
2P - 0.75	11.1	2P - 1.5	13.5
3P - 0.75	11.7	3P - 1.5	14.7
4P - 0.75	12.7	4P - 1.5	16.6
5P - 0.75	14.4	5P - 1.5	18.4
6P - 0.75	15.0	6P - 1.5	19.0
7P - 0.75	15.0	7P - 1.5	19.0
8P - 0.75	16.9	8P - 1.5	20.8
9P - 0.75	17.8	9P - 1.5	22.4
10P - 0.75	19.0	10P - 1.5	23.9
12P - 0.75	19.6	12P - 1.5	24.8

SIF**(Silicone-Single Insulated Type)
- 60°C to + 180°C / high flexibility****<< Cable structure >>**

- # Conductor : Tinned fine wire copper (IEC 60228 class 5)
- # Insulation : Silicone Rubber (Up to 5 cores / No. marking : More than 6 cores)

<< Characteristics >>**< Physical / Chemical >**

- # Continuous working temperature
: -60°C ~ +180°C / Peaks at +231°C
- # Excellent Flexibility
- # Excellent ageing resistance
- # Good Resistance to thermal shock

< Electrical >

- # Working voltage : 300/500/600v and 1kv
- # Test voltage : 2,000v

< Color >

- # Brown / Red / Grey / White

< Option >

- # Other cross-sections or strandings
- # Customized colours
- # Out diameter relies on operating voltage
- # Bending Rigidous :
- # ST / MV

<Packaging>

- # Rolls / Spools / Drums

<<Application>>

- # Inner wiring for facility, requiring the use of highly flexible cables
- # Especially widely used in hot environments up to 180°C
- # Wiring in furnaces, ovens, glass, steel, cement, ceramic and iron works

SIF		SIF-GL	
Number of cores and mm ² per conductor	Outer diameter in mm approx.	Number of cores and mm ² per conductor	Outer diameter in mm approx.
0.5	2.1	0.5	2.5
0.8	2.3	0.8	2.7
1.0	2.5	1.0	2.9
1.5	3.0	1.5	3.4
2.5	3.7	2.5	4.2
4.0	4.6	4.0	5.1
6.0	5.2	6.0	5.7
10.0	6.7	10.0	7.2
16.0	8.4	16.0	9.0
25.0	10.2	25.0	10.8
35.0	11.7	35.0	12.5
50.0	13.8	50.0	14.6
70.0	16.2	70.0	17.0
95.0	18.3	95.0	19.1
120.0	20.0	120.0	21.0
150.0	22.2	150.0	23.2
185.0	25.0	185.0	26.0
240.0	27.9	240.0	28.9
300.0	31.0	300.0	32.0
325.0	32.2	325.0	33.2