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YOUNG CHANG

More Technology, Better Cabled Since 1986

Sustainable Growth Through Mutual Cooperation
Solution for Wire & Cable

ITEMS

Triple Insulation Wire

STW-B
STLZW-B
STW-F
STW-F LITZ Wire
SSW-F
SDW-H

Heat Resistant Cable

YSMIC(SIF/SIHF)
LK/LKGB
MULTI Cable
Fluororesin Wire
SRG-Wire
KC-Wire
GCL-Wire

Heating Cable

Magnetic Control Heating Cable
Silicone Power Heating Cable
Fluororesin Power Heating Cable
Long Distance Heating Cable
Ground Heating Cable
Chiffon Cable



More Technology, Better Cable Since 1986

Youngchang Silicon was founded in 1986 and has been creating high-quality wires for wide range of applications.

From IT and general industries to ships, automobiles, plant industries and heating cables, we provide wires and various insulation solutions required in various industries.

Youngchang Silicon has developed products and services while actively embracing changes in a rapidly changing business environment.

Cable & Wire, which saves the value of scattered devices and parts, exists everywhere in our lives. In response to this, continuous R&D is being enforced for customer satisfaction according to various usage and environments. Furthermore, through this, we have accumulated different core experiences and competencies on optimized and customized design.

Youngchang Silicon is continuously growing through mutual cooperation with domestic and international companies in various fields.

Youngchang Silicon will become a company that connects the world by communicating and leading change based on the philosophy and culture.



Creating the brilliant future with customer

Young Chang will create the innovative future by the best product in the world. To achieve it, Young Chang is concentrating on core ability and customer satisfaction.



Core Ability Reinforcement

Young Chang has been reinforcing the abilities regarding the processing techniques of cable, wire and insulation materials since 1986



For customer satisfaction

The customer satisfaction is the most important thing to Young Chang. Young Chang has been doing best efforts to achieve the customer satisfaction.

- 2021** Obtained Electrical Insulation System YCI-155 for STW-F E303298 (YCI-155)
- 2020** Acquired UL AWM Style 22048
Established Youngchang Hong Kong
- 2019** Acquired 16949;2016 and UL AWM Style 1727
- 2018** Updated ISO 9001;2015, ISO 140071;2015
Acquired UL certificate
E120271 : (Appliance Wire, Extruded Silicone rubber, Insulated Singles, Class I, Group A,B or Group A/B)
- 2017** Acquired IECEx Certificate (Self-Regulating Heating Cable, IECExFMG 17.0011U)
- 2016** Acquired Russia's TR-CU certificate (Heating Cable)
- 2014** Acquired ATEX certificate
Series resistance heating cable SCW series (KRH 14 ATEX 1018U)
EN 60079-0:2009 EN 60079-7:2007 EN 60079-30-1:2007 (Korea)
- 2013** Participated localizing munition development project
Wiring system for Engine/ Spec number: KDS 1940-1005
- 2012** Acquired MIL certificate (MIL 22759 type)
- 2011** Acquired FM certificate
16ASH2-CR Self-Regulating Electrical Heating Cable System
[Class I,II,III, Division2, Group A,B,C,D,F and G hazardous (Classified Locations)]
- 2008** Acquired UL certificate
E120271 (Self Regulating Cable), E120271 (Silicone Jacket Cable)
- 2007** Acquired UL certificate
E120271 (Heatrace SCW), E242198 (STLZW-B),E314954 (TC-W PLCT)
Converted ISO 9001;2008 from Korean Foundation for Quality
- 2006** Obtained Electrical Insulation System YCI-130 for STW-B E303298 (YCI-130)
- 2005** Awarded for reaching 5Million USD export
Obtained UL 5420 : High Temp.(450°C) Wire - For the first time in Asia
- 2004** Commencement of mass production
- STW-B (Certificates : UL, TUV, NEMKO, CSA, VDE, BSI)
Obtained 8 country's Type Approval for Shipboard Engine Cable (Certificates : DNV, ABS, GL, NK, KR, LR, RINA, BV)
- 2003** Updated ISO9001;2000 (Korea Foundation of Quality)
- 2000** Corporate conversion Young Chang Silicone LTD., Co
- 1997** Acquired ISO 9002 Certificate (KITECH)
- 1993** Registered to Korea International Trade Association as trading company
Acquired UL certificate (Fluoropolymer Wire) – E120271
- 1992** Acquired UL certificate
UL: Silicone Rubber Insulation Glass
(Silicone Rubber Insulation Glass Braided Tuber) – E141626
Acquired CSA certificate (Silicone Rubber Wire-Equipment Wire)
- 1991** Selected as Promising Business by Industrial Bank of Korea
Acquired UL certificate
(Silicone Rubber Wire-AWM, Fixture Wire) -E120271, E120347
- 1986** Established Youngchang Silicone

Production Line & Test Lab



Various Test Instrument



I Category

- Triple Insulation Wire (Reinforced)
- Double Insulation Wire (Supplementary)
- Single Insulation Wire (Basic)
- Insulated Litz Wire
- Self-Bonding Overcast
- Added Tape on Triple Insulation Wire

I Features

- **Capable of reducing the size of switching transformers without the use of interlayer insulation materials**
 - Wound directly on top of enameled wires
- **Excellent electric insulation properties**
 - UL authorized category UL OBJT2. File Number: E242198
 - UL authorized category UL OBJS2. File Number: E303298
 - Class B EIS: YCI-130
 - Class F EIS: YCI-155
 - VDE Certification Number: 40013359
- **Reliable in high Voltage & Frequency stress conditions**
 - Withstands high voltage (1,410 V)
 - Suitable for high frequency (20~500 kHz)
 - Low dielectric constant and unique electric properties
 - High abrasion resistance coupled with mechanical strength
- **Cost Saving & High efficiency**
 - Reduced size, volume and weight(Saving cost)
 - Simplified production method without interlayer insulation tape or barrier tape
 - High-speed winding capability

I Specification

Types of Insulation	: Polyester, ETFE, PFA
Insulation Thickness	: 1.3 to 3.0 mils
Temperature Class	: 130°C – 180°C
Min Breakdown Voltage	: 6,000V – 10,000V
Range of Conductor	: AWG 39 – 11
Types of Conductor	: Bare Copper, Enamelled Copper, Tin-Plated Copper Wire, and Litz Wire, etc.

I Triple Insulation Wire

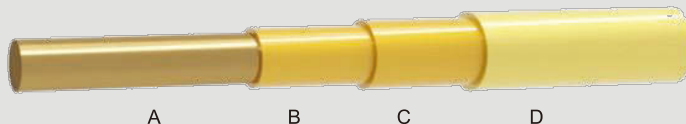
STW -F XX E XXX MM AA SB
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Insulation Type: SSW - single insulated wire SDW - double insulated wire STW - triple insulated wire
- ② Temperature class: B - Class B 130°C F - Class B 155°C H - Class B 180°C
- ③ Actual insulating Thickness in mils or mm.
- ④ Insulation Type: N-PET, E - ETFE, F - FEP, P - PFA
- ⑤ Insulation Color Codes: Each "X" represents one layer of insulation.
Brown 1, red 2, Orange 3, yellow 4, green 5, Blue 6, purple 7, gray 8, white 9, black 0, clear C
- ⑥ Conductor Material: BC = Solid Bare Copper BA = Bare Aluminum TC = Tinned copper NC = Nickel plated copper
MW=Magnet Wire LZ - Litz wire, MWXX - "XX" two digits identifying the R/C - Magnet Wires (OBMW2) ANSI MW Type
- ⑦ Conductor Size: by two digits indicating AWG Size or replaced by 2-4 digits to show equivalent metric size in mm
- ⑧ SB represents self-bonding.

STW-B		
STLZW-B		
STW-F		
STW-F LZ		
SSW-F		
SDW-H		

STW-B®

I Structure



- A. Conductor
 B. 1st Extruded Insulation: Polyester
 C. 2nd Extruded Insulation: Polyester
 D. 3rd Extruded Insulation: Polyamide compound

Size Range: 0.20mm - 1.00mm

Conductor:

Solid Bare Copper
 Tinned copper
 Nickel plated copper
 Magnet Wires (OBMW2)

Insulation:

1st Extruded Insulation: Polyester
 2nd Extruded Insulation: Polyester
 3rd Extruded Insulation: Polyamide compound

Rating:

Temp Class: 130°C
 Rated Volts: 1410Vpeak

Compliances:

UL OBJT2 File Number: E242198
 UL OBJS2 File Number: E303298
 System Approvals: UL1446
 YCI-130
 IEC 60950-1, Annex U, IEC 60601-1 (ed.3)
 RoHS Compliant

Part No.	Dimensions					Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Min. Insulation Thickness(mm)	Dimensions Overall				
	Diameter	Tolerance		Typical Overall Diameter	Max. Overall Diameter			
STW-B 0.20MM	0.20	± 0.008	0.084	0.38	0.42	7,000	607.6	0.3736
STW-B 0.25MM	0.25	± 0.008	0.084	0.43	0.47	7,000	382.5	0.5475
STW-B 0.30MM	0.30	± 0.010	0.084	0.48	0.54	7,000	262.9	0.7761
STW-B 0.32MM	0.32	± 0.010	0.084	0.50	0.56	7,000	230	0.8703
STW-B 0.35MM	0.35	± 0.010	0.084	0.53	0.59	7,000	191.2	1.022
STW-B 0.37MM	0.37	± 0.010	0.084	0.55	0.61	7,000	170.6	1.1301
STW-B 0.40MM	0.40	± 0.010	0.084	0.60	0.66	7,000	145.3	1.3276
STW-B 0.45MM	0.45	± 0.010	0.084	0.65	0.71	7,000	114.2	1.6454
STW-B 0.50MM	0.50	± 0.010	0.084	0.70	0.76	7,000	91.43	1.9981
STW-B 0.55MM	0.55	± 0.020	0.084	0.75	0.81	7,000	78.15	2.3857
STW-B 0.60MM	0.60	± 0.020	0.084	0.80	0.86	7,000	65.26	2.8082
STW-B 0.65MM	0.65	± 0.020	0.084	0.85	0.91	7,000	55.31	3.2657
STW-B 0.70MM	0.70	± 0.020	0.084	0.90	0.96	7,000	47.47	3.758
STW-B 0.75MM	0.75	± 0.020	0.084	0.95	1.01	7,000	41.19	4.2853
STW-B 0.80MM	0.80	± 0.020	0.084	1.00	1.06	7,000	36.08	4.8475
STW-B 0.85MM	0.85	± 0.020	0.084	1.05	1.11	7,000	31.87	5.4446
STW-B 0.90MM	0.90	± 0.020	0.084	1.10	1.16	7,000	28.35	6.0766
STW-B 0.95MM	0.95	± 0.020	0.084	1.15	1.21	7,000	25.38	6.7435
STW-B 1.00MM	1.00	± 0.020	0.084	1.20	1.26	7,000	23.33	7.4453

STLZW-B[®]

I Structure



A B C D

A. conductor (Enamel Coated): Enameled stranded wire
 C. 2nd Extruded Insulation: Polyester

B. 1st Extruded Insulation: Polyester
 D. 3rd Extruded Insulation: Polyamide compound

Size Range: 0.28mm - 1.00mm

Conductor:

Enameled stranded (OBMW2) MW28

Insulation:

1st Extruded Insulation: Polyester
 2nd Extruded Insulation: Polyester
 3rd Extruded Insulation: Polyamide compound

Rating:

Temp Class: 130°C
 Rated Volts: 1410Vpeak

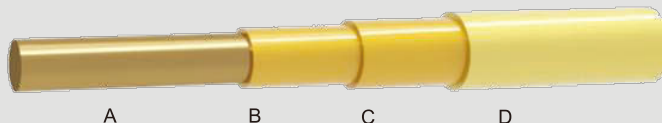
Compliances:

UL OBT2 File Number: E242198
 UL OBJS2 File Number: E303298
 System Approvals:UL1446
 YCI-130
 IEC 60950-1,Annex U,IEC 60601-1(ed.3)
 RoHS Compliant

Part No.	Dimensions			Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor Diameter (mm)	Insulation (mm)			
		Typical Overall Diameter	Max. Overall Diameter		
STLZW-B 7/0.10MM	7/0.10	0.522	0.562	346.9	0.679
STLZW-B 7/0.11MM	7/0.11	0.552	0.592	285.2	0.797
STLZW-B 7/0.12MM	7/0.12	0.588	0.628	238.4	0.931
STLZW-B 7/0.13MM	7/0.13	0.618	0.658	202.4	1.069
STLZW-B 7/0.14MM	7/0.14	0.648	0.688	173.8	1.217
STLZW-B 7/0.15MM	7/0.15	0.678	0.718	151.1	1.375
STLZW-B 7/0.16MM	7/0.16	0.714	0.754	132.4	1.55
STLZW-B 7/0.17MM	7/0.17	0.744	0.784	117	1.728
STLZW-B 7/0.18MM	7/0.18	0.774	0.814	104.2	1.917
STLZW-B 7/0.19MM	7/0.19	0.804	0.844	93.34	2.115
STLZW-B 7/0.20MM	7/0.20	0.834	0.874	84.1	2.323
STLZW-B 7/0.21MM	7/0.21	0.864	0.904	76.18	2.541
STLZW-B 7/0.22MM	7/0.22	0.894	0.934	69.96	2.769
STLZW-B 7/0.23MM	7/0.23	0.93	0.970	63.91	3.017
STLZW-B 7/0.24MM	7/0.24	0.96	1.000	58.61	3.265
STLZW-B 7/0.25MM	7/0.25	0.99	1.030	53.94	3.523
STLZW-B 7/0.26MM	7/0.26	1.02	1.060	49.81	3.792
STLZW-B 7/0.27MM	7/0.27	1.05	1.090	46.13	4.07
STLZW-B 7/0.28MM	7/0.28	1.08	1.120	42.85	4.358
STLZW-B 7/0.29MM	7/0.29	1.11	1.150	39.91	4.656
STLZW-B 7/0.30MM	7/0.30	1.146	1.186	37.01	4.976

STW-F[®] Dupont[™]Tefzel[®] ETFE 1.3 mils/Layer

I Structure



A. Conductor

B. 1st Extruded Insulation :Dupont[™]Tefzel[®] ETFEC. 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFED. 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE**Size Range:** 0.09mm - 1.00mm**Insulation:**1st Extruded Insulation: Dupont[™]Tefzel[®] ETFE 1.3mils2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE 1.3mils3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE 1.3mils**Rating:**

Temp Class: 155°C

Rated Volts: 1410Vpeak

Compliances:

UL OBJT2 File Number: E242198

UL OBJS2 File Number: E303298

System Approvals:UL1446

YCI-155

IEC 60950-1,Annex U,IEC 60601-1(ed.3)

RoHS Compliant

Conductor:

Solid Bare Copper

Tinned copper

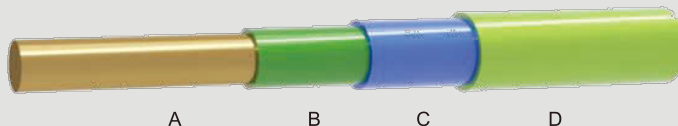
Nickel plated copper

Magnet Wires (OBMW2)

Part No.	Dimensions					Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mm)	Dimensions Overall				
	Diameter	Tolerance		Min. Overall Diameter	Max. Overall Diameter			
STW-F 0.09MM	0.09	±0.008	0.10	0.282	0.31	7000	3350	0.174
STW-F 0.10MM	0.10	±0.008	0.10	0.292	0.32	7000	2650	0.2
STW-F 0.11MM	0.11	±0.008	0.10	0.302	0.33	7000	2145	0.225
STW-F 0.12MM	0.12	±0.008	0.10	0.312	0.34	7000	1785	0.235
STW-F 0.13MM	0.13	±0.008	0.10	0.322	0.35	7000	1458	0.255
STW-F 0.14MM	0.14	±0.008	0.10	0.332	0.36	7000	1253	0.293
STW-F 0.16MM	0.16	±0.008	0.10	0.352	0.377	7000	908	0.342
STW-F 0.18MM	0.18	±0.008	0.10	0.372	0.397	7000	716	0.403
STW-F 0.20MM	0.20	±0.008	0.10	0.392	0.417	7000	607.6	0.468
STW-F 0.25MM	0.25	±0.008	0.10	0.442	0.467	7000	382.5	0.657
STW-F 0.26MM	0.26	±0.01	0.10	0.452	0.477	7000	358.4	0.699
STW-F 0.28MM	0.28	±0.01	0.10	0.472	0.497	7000	307.3	0.787
STW-F 0.30MM	0.30	±0.01	0.10	0.495	0.520	7000	262.9	0.881
STW-F 0.35MM	0.35	±0.01	0.10	0.545	0.570	7000	191.2	1.140
STW-F 0.37MM	0.37	±0.01	0.10	0.565	0.590	7000	170.6	1.253
STW-F 0.40MM	0.40	±0.01	0.10	0.600	0.625	7000	145.3	1.433
STW-F 0.45MM	0.45	±0.01	0.10	0.650	0.675	7000	114.2	1.762
STW-F 0.50MM	0.50	±0.01	0.10	0.700	0.725	7000	91.43	2.126
STW-F 0.55MM	0.55	±0.02	0.10	0.750	0.775	7000	78.15	2.524
STW-F 0.60MM	0.60	±0.02	0.10	0.800	0.825	7000	65.26	2.958
STW-F 0.65MM	0.65	±0.02	0.10	0.850	0.875	7000	55.31	3.426
STW-F 0.70MM	0.70	±0.02	0.10	0.895	0.925	7000	47.47	3.930
STW-F 0.75MM	0.75	±0.02	0.10	0.945	0.975	7000	41.19	4.468
STW-F 0.80MM	0.80	±0.02	0.10	0.980	1.0	7000	36.08	5.041
STW-F 0.85MM	0.85	±0.02	0.10	1.050	1.08	7000	31.87	5.649
STW-F 0.90MM	0.90	±0.02	0.10	1.100	1.13	7000	28.35	6.293
STW-F 0.95MM	0.95	±0.02	0.10	1.150	1.18	7000	25.38	6.971
STW-F 1.00MM	1.00	±0.03	0.10	1.170	1.20	7000	23.33	7.684

STW-F[®] Dupont[™]Tefzel[®] ETFE 1.5 mils/Layer

I Structure



- A. Conductor
- B. 1st Extruded Insulation : Dupont[™]Tefzel[®] ETFE
- C. 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE
- D. 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Size Range: 0.079mm - 1.02mm

Conductor:

- Solid Bare Copper
- Tinned copper
- Nickel plated copper
- Magnet Wires (OBMW2)

Insulation:

- 1st Extruded Insulation: Dupont[™]Tefzel[®] ETFE
- 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE
- 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Rating:

- Temp Class: 155°C
- Rated Volts: 1410Vpeak

Compliances:

- UL OBJT2 File Number: E242198
- UL OBJS2 File Number: E303298
- System Approvals:UL1446
- YCI-155
- IEC 60950-1,Annex U,IEC 60601-1(ed.3)
- RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
STW-F1.5EXXTC40	0.079	±0.008	4.50	0.307	7000	4058.40	0.164
STW-F1.5EXXTC39	0.089	±0.008	4.50	0.317	7000	3159.78	0.182
STW-F1.5EXXTC38	0.102	±0.008	4.50	0.33	7000	2401.57	0.207
STW-F1.5EXXTC37	0.114	±0.008	4.50	0.342	7000	1886.81	0.233
STW-F1.5EXXTC36	0.127	±0.008	4.50	0.355	7000	1521.33	0.263
STW-F1.5EXXTC35	0.142	±0.008	4.50	0.37	7000	1207.68	0.3
STW-F1.5EXXTC34	0.16	±0.008	4.50	0.388	7000	950.13	0.35
STW-F1.5EXXTC33	0.18	±0.008	4.50	0.408	7000	748.69	0.409
STW-F1.5EXXTC32	0.203	±0.008	4.50	0.431	7000	585.30	0.485
STW-F1.5EXXTC31	0.226	±0.008	4.50	0.454	7000	471.78	0.568
STW-F1.5EXXTC30	0.254	±0.008	4.50	0.482	7000	372.70	0.68
STW-F1.5EXXTC29	0.287	± 0.010	4.50	0.515	7000	291.90	0.825
STW-F1.5EXXTC28	0.32	± 0.010	4.50	0.548	7000	234.78	0.985
STW-F1.5EXXTC27	0.361	± 0.010	4.50	0.589	7000	184.84	1.206
STW-F1.5EXXTC26	0.404	± 0.010	4.50	0.632	7000	147.44	1.462
STW-F1.5EXXTC25	0.455	± 0.010	4.50	0.683	7000	116.34	1.8
STW-F1.5EXXTC24	0.511	± 0.020	4.50	0.739	7000	92.26	2.213
STW-F1.5EXXTC23	0.574	± 0.020	4.50	0.802	7000	72.97	2.73
STW-F1.5EXXTC22	0.643	± 0.020	4.50	0.871	7000	58.23	3.359
STW-F1.5EXXTC21	0.724	± 0.020	4.50	0.952	7000	45.90	4.183
STW-F1.5EXXTC20	0.813	± 0.020	4.50	1.041	7000	36.38	5.195
STW-F1.5EXXTC19	0.912	± 0.020	4.50	1.14	7000	28.92	6.45
STW-F1.5EXXTC18	1.02	± 0.030	4.50	1.248	7000	22.95	7.975

STW-F[®] Dupont[™]Tefzel[®] ETFE 2.0 mils/Layer

I Structure



A B C D

A. Conductor

B. 1st Extruded Insulation : Dupont[™]Tefzel[®] ETFE

C. 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE

D. 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Size Range: 0.079mm - 1.02mm

Insulation:

Compliances:

Conductor:

1st Extruded Insulation: Dupont[™]Tefzel[®] ETFE

UL OBJT2 File Number: E242198

Solid Bare Copper

2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE

UL OBJS2 File Number: E303298

Tinned copper

3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

System Approvals:UL1446

Nickel plated copper

Rating:

YCI-155

Magnet Wires (OBMW2)

Temp Class: 155°C

IEC 60950-1,Annex U,IEC 60601-1(ed.3)

Rated Volts: 1410Vpeak

RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
STW-F2.0EXXTC40	0.079	±0.008	6.00	0.379	9000	4058.40	0.235
STW-F2.0EXXTC39	0.089	±0.008	6.00	0.389	9000	3159.78	0.255
STW-F2.0EXXTC38	0.102	±0.008	6.00	0.402	9000	2401.57	0.283
STW-F2.0EXXTC37	0.114	±0.008	6.00	0.414	9000	1886.81	0.311
STW-F2.0EXXTC36	0.127	±0.008	6.00	0.427	9000	1521.33	0.344
STW-F2.0EXXTC35	0.142	±0.008	6.00	0.442	9000	1207.68	0.384
STW-F2.0EXXTC34	0.16	±0.008	6.00	0.46	9000	950.13	0.437
STW-F2.0EXXTC33	0.18	±0.008	6.00	0.48	9000	748.69	0.501
STW-F2.0EXXTC32	0.203	±0.008	6.00	0.503	9000	585.30	0.581
STW-F2.0EXXTC31	0.226	±0.008	6.00	0.526	9000	471.78	0.669
STW-F2.0EXXTC30	0.254	±0.008	6.00	0.554	9000	372.70	0.786
STW-F2.0EXXTC29	0.287	± 0.010	6.00	0.587	9000	291.90	0.938
STW-F2.0EXXTC28	0.32	± 0.010	6.00	0.62	9000	234.78	1.105
STW-F2.0EXXTC27	0.361	± 0.010	6.00	0.661	9000	184.84	1.334
STW-F2.0EXXTC26	0.404	± 0.010	6.00	0.704	9000	147.44	1.6
STW-F2.0EXXTC25	0.455	± 0.010	6.00	0.755	9000	116.34	1.948
STW-F2.0EXXTC24	0.511	± 0.020	6.00	0.811	9000	92.26	2.372
STW-F2.0EXXTC23	0.574	± 0.020	6.00	0.874	9000	72.97	2.901
STW-F2.0EXXTC22	0.643	± 0.020	6.00	0.943	9000	58.23	3.545
STW-F2.0EXXTC21	0.724	± 0.020	6.00	1.024	9000	45.90	4.386
STW-F2.0EXXTC20	0.813	± 0.020	6.00	1.113	9000	36.38	5.415
STW-F2.0EXXTC19	0.912	± 0.020	6.00	1.212	9000	28.92	6.69
STW-F2.0EXXTC18	1.02	± 0.030	6.00	1.32	9000	22.95	8.237

STW-F[®] Dupont[™]Tefzel[®] ETFE 3.0 mils/Layer

I Structure



- A. Conductor
- B. 1st Extruded Insulation : Dupont[™]Tefzel[®] ETFE
- C. 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE
- D. 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Size Range: 0.079mm - 1.02mm

Conductor:

- Solid Bare Copper
- Tinned copper
- Nickel plated copper
- Magnet Wires (OBMW2)

Insulation:

- 1st Extruded Insulation: Dupont[™]Tefzel[®] ETFE
- 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE
- 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Rating:

- Temp Class: 155°C
- Rated Volts: 1410Vpeak

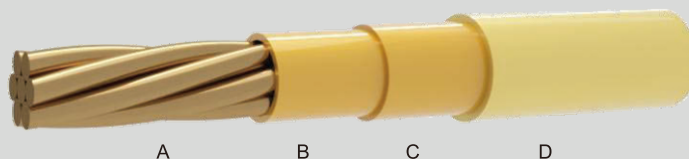
Compliances:

- UL OBJT2 File Number: E242198
- UL OBJS2 File Number: E303298
- System Approvals:UL1446
- YCI-155
- IEC 60950-1,Annex U,IEC 60601-1(ed.3)
- RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor (TC) Resistance (Ω/KM)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
STW-F3.0EXXTC40	0.079	±0.008	9.00	0.535	13000	4058.40	0.424
STW-F3.0EXXTC39	0.089	±0.008	9.00	0.545	13000	3159.78	0.448
STW-F3.0EXXTC38	0.102	±0.008	9.00	0.558	13000	2401.57	0.481
STW-F3.0EXXTC37	0.114	±0.008	9.00	0.57	13000	1886.81	0.514
STW-F3.0EXXTC36	0.127	±0.008	9.00	0.583	13000	1521.33	0.552
STW-F3.0EXXTC35	0.142	±0.008	9.00	0.598	13000	1207.68	0.598
STW-F3.0EXXTC34	0.16	±0.008	9.00	0.616	13000	950.13	0.658
STW-F3.0EXXTC33	0.18	±0.008	9.00	0.636	13000	748.69	0.731
STW-F3.0EXXTC32	0.203	±0.008	9.00	0.659	13000	585.30	0.82
STW-F3.0EXXTC31	0.226	±0.008	9.00	0.682	13000	471.78	0.918
STW-F3.0EXXTC30	0.254	±0.008	9.00	0.71	13000	372.70	1.046
STW-F3.0EXXTC29	0.287	± 0.010	9.00	0.743	13000	291.90	1.211
STW-F3.0EXXTC28	0.32	± 0.010	9.00	0.776	13000	234.78	1.392
STW-F3.0EXXTC27	0.361	± 0.010	9.00	0.817	13000	184.84	1.637
STW-F3.0EXXTC26	0.404	± 0.010	9.00	0.86	13000	147.44	1.92
STW-F3.0EXXTC25	0.455	± 0.010	9.00	0.911	13000	116.34	2.289
STW-F3.0EXXTC24	0.511	± 0.020	9.00	0.967	13000	92.26	2.736
STW-F3.0EXXTC23	0.574	± 0.020	9.00	1.03	13000	72.97	3.291
STW-F3.0EXXTC22	0.643	± 0.020	9.00	1.099	13000	58.23	3.963
STW-F3.0EXXTC21	0.724	± 0.020	9.00	1.18	13000	45.90	4.837
STW-F3.0EXXTC20	0.813	± 0.020	9.00	1.269	13000	36.38	5.902
STW-F3.0EXXTC19	0.912	± 0.020	9.00	1.368	13000	28.92	7.218
STW-F3.0EXXTC18	1.02	± 0.030	9.00	1.476	13000	22.95	8.809

STW-F[®] Litz Wire

I Structure



A. conductor (Enamel Coated): Enameled stranded wire

B. 1st Extruded Insulation: Polyester

C. 2nd Extruded Insulation: Polyester

D. 3rd Extruded Insulation: Polyamide compound

Size Range: 0.28mm - 1.00mm

Conductor:

Enameled stranded (OBMW2) MW80C MW79C

Insulation:

1st Extruded Insulation: Polyester

2nd Extruded Insulation: Polyester

3rd Extruded Insulation: Polyamide compound

Rating:

Temp Class: 155°C

Rated Volts: 1410Vpeak

Compliances:

UL OBJT2 File Number: E242198

UL OBJS2 File Number: E303298

System Approvals: UL1446

YCI-155

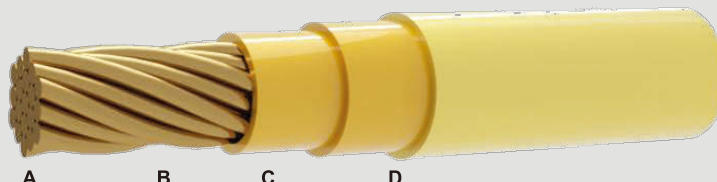
IEC 60950-1, Annex U, IEC 60601-1(ed.3)

RoHS Compliant

Part No.	Dimensions			Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor Diameter (mm)	Insulation (mm)			
		Typical Overall Diameter	Max. Overall Diameter		
STW-F 7/0.11MM	7/0.11	0.552	0.592	285.2	0.797
STW-F 7/0.12MM	7/0.12	0.588	0.628	238.4	0.931
STW-F 7/0.13MM	7/0.13	0.618	0.658	202.4	1.069
STW-F 7/0.14MM	7/0.14	0.648	0.688	173.8	1.217
STW-F 7/0.15MM	7/0.15	0.678	0.718	151.1	1.375
STW-F 7/0.16MM	7/0.16	0.714	0.754	132.4	1.55
STW-F 7/0.17MM	7/0.17	0.744	0.784	117	1.728
STW-F 7/0.18MM	7/0.18	0.774	0.814	104.2	1.917
STW-F 7/0.19MM	7/0.19	0.804	0.844	93.34	2.115
STW-F 7/0.20MM	7/0.20	0.834	0.874	84.1	2.323
STW-F 7/0.21MM	7/0.21	0.864	0.904	76.18	2.541
STW-F 7/0.22MM	7/0.22	0.894	0.934	69.96	2.769
STW-F 7/0.23MM	7/0.23	0.93	0.970	63.91	3.017
STW-F 7/0.24MM	7/0.24	0.96	1.000	58.61	3.265
STW-F 7/0.25MM	7/0.25	0.99	1.030	53.94	3.523
STW-F 7/0.26MM	7/0.26	1.02	1.060	49.81	3.792
STW-F 7/0.27MM	7/0.27	1.05	1.090	46.13	4.07
STW-F 7/0.28MM	7/0.28	1.08	1.120	42.85	4.358
STW-F 7/0.29MM	7/0.29	1.11	1.150	39.91	4.656
STW-F 7/0.30MM	7/0.30	1.146	1.186	37.01	4.976

STW-F[®] Litz Wire

I Structure



A. conductor (Enamel Coated): Enamelled stranded wire
 B. 1st Extruded Insulation : Dupont[™]Tefzel[®] ETFE
 C. 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFE
 D. 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Size Range:

Listed products in this page are a parts of total product, If you need more information then, please contact our Sales Div.

Conductor:

Enamelled stranded (OBMW2)
 MW79C / MW80C

Insulation:

1st Extruded Insulation: Dupont[™]Tefzel[®] ETFE UL OBJT2 File Number: E242198
 2nd Extruded Insulation : Dupont[™]Tefzel[®] ETFEJL OBJS2 File Number: E303298
 3rd Extruded Insulation: Dupont[™]Tefzel[®] ETFE System Approvals:UL1446

Rating:

Temp Class: 155°C
 Rated Volts: 1410Vpeak

Compliances:

YCI-155
 IEC 60950-1, Annex U, IEC 60601-1(ed.3)
 RoHS Compliant

Part No.	Dimensions			Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Overall Diameter ±0.15mm		
	Strands / Diameter	Conductor Diameter			
STW-F 7/0.10MM	7/0.10	0.348	0.59	385.7	0.76
STW-F 9/0.10MM	9/0.10	0.395	0.64	300	0.93
STW-F 11/0.10MM	11/0.10	0.437	0.68	245.4	1.08
STW-F 13/0.10MM	13/0.10	0.475	0.72	207.7	1.27
STW-F 17/0.10MM	17/0.10	0.543	0.79	158.8	1.6
STW-F 21/0.10MM	21/0.10	0.603	0.86	128.6	1.95
STW-F 27/0.10MM	27/0.10	0.684	0.94	100	2.42
STW-F 30/0.10MM	30/0.10	0.721	1.02	89.68	2.68
STW-F 33/0.10MM	33/0.10	0.756	1.08	81.82	3
STW-F 35/0.10MM	35/0.10	0.779	1.08	76.87	3.182
STW-F 40/0.10MM	40/0.10	0.833	1.1	67.5	3.7
STW-F 42/0.10MM	42/0.10	0.853	1.16	64.28	3.75
STW-F 50/0.10MM	50/0.10	0.931	1.23	57.81	4.51
STW-F 55/0.10MM	55/0.10	0.976	1.34	49.09	4.96
STW-F 60/0.10MM	60/0.10	1.019	1.32	48.91	5.41
STW-F 65/0.10MM	65/0.10	1.062	1.36	41.39	5.87
STW-F 70/0.10MM	70/0.10	1.102	1.47	38.57	6.16
STW-F 75/0.10MM	75/0.10	1.14	1.44	35.87	6.62
STW-F 84/0.10MM	84/0.10	1.207	1.57	32.14	7.27
STW-F 90/0.10MM	90/0.10	1.249	1.507	29.89	7.83

(To be Continued)

STW-F[®] Litz Wire

Part No.	Dimensions			Maximum Conductor Resistance (Ω /km)	Weight (kg/km)
	Conductor (mm)		Overall Diameter ± 0.15 mm		
	Strands / Diameter	Conductor Diameter			
STW-F 95/0.10MM	95/0.10	1.283	1.65	28.5	8.26
STW-F 100/0.10MM	100/0.10	1.317	1.61	26.9	8.55
STW-F 105/0.10MM	105/0.10	1.349	1.7	25.71	8.95
STW-F 120/0.10MM	120/0.10	1.442	1.75	22.5	10.2
STW-F 160/0.10MM	160/0.10	1.665	1.965	16.81	20.4
STW-F 180/0.10MM	180/0.10	1.763	2.068	14.94	15.3
STW-F 200/0.10MM	200/0.10	1.862	2.162	13.45	25.5
STW-F 210/0.10MM	210/0.10	1.908	2.208	12.81	26.77
STW-F 350/0.10MM	350/0.10	2.413	2.718	7.68	44.62
STW-F 230/0.05MM	230/0.05	1.130	1.435	50.3	47.27
STW-F 360/0.05MM	360/0.05	1.415	1.720	29.29	7.399
STW-F 825/0.05MM	825/0.05	2.144	2.449	12.78	16.95
STW-F 19/0.127MM	19/0.127	0.714	1.019	94.1	2.52
STW-F 0.33MM LL	7/0.13	0.33	0.53	284.3	0.80
STW-F 0.36MM LL	7/0.15	0.36	0.56	236.6	0.95
STW-F 0.41MM LL	7/0.17	0.41	0.61	179.8	1.21
STW-F 0.46MM LL	7/0.18	0.46	0.64	143.8	1.47
STW-F 0.51MM LL	7/0.20	0.51	0.68	114.8	1.74
STW-F 0.56MM LL	7/0.22	0.56	0.74	94.3	2.16
STW-F 0.61MM LL	7/0.23	0.61	0.78	79.5	2.48
STW-F 0.65MM LL	7/0.25	0.65	0.82	69.6	2.78
STW-F 0.71MM LL	7/0.26	0.71	0.88	57.9	3.32
STW-F 0.81MM LL	7/0.32	0.81	0.98	44.4	4.32
STW-F 0.91MM LL	7/0.36	0.91	1.10	34.9	5.52
STW-F 1.01MM LL	7/0.40	1.01	1.20	28.2	6.75

SSW-F[®] Dupont[™]Tefzel[®] ETFE 1.5 mils/Layer

I Structure



A
A. Conductor

B
B. Extruded Insulation :Dupont[™]Tefzel[®] ETFE

Size Range: 0.079mm - 1.02mm

Conductor:

Solid Bare Copper

Tinned copper

Nickel plated copper

Magnet Wires (OBMW2)

Insulation:

Extruded Insulation: Dupont[™]Tefzel[®] ETFE

Rating:

Temp Class: 155°C

Rated Volts: 1000Vpeak

Compliances:

UL OBJT2 File Number: E242198

UL 60950-1, Annex U

RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
SSW-F1.5EXTC40	0.079	±0.008	1.5	0.155	2000	4058.40	0.068
SSW-F1.5EXTC39	0.089	±0.008	1.5	0.165	2000	3159.78	0.082
SSW-F1.5EXTC38	0.102	±0.008	1.5	0.178	2000	2401.57	0.102
SSW-F1.5EXTC37	0.114	±0.008	1.5	0.19	2000	1886.81	0.122
SSW-F1.5EXTC36	0.127	±0.008	1.5	0.203	2000	1521.33	0.147
SSW-F1.5EXTC35	0.142	±0.008	1.5	0.218	2000	1207.68	0.178
SSW-F1.5EXTC34	0.16	±0.008	1.5	0.236	2000	950.13	0.22
SSW-F1.5EXTC33	0.18	±0.008	1.5	0.256	2000	748.69	0.272
SSW-F1.5EXTC32	0.203	±0.008	1.5	0.279	2000	585.30	0.338
SSW-F1.5EXTC31	0.226	±0.008	1.5	0.302	2000	471.78	0.412
SSW-F1.5EXTC30	0.254	±0.008	1.5	0.33	2000	372.70	0.511
SSW-F1.5EXTC29	0.287	± 0.010	1.5	0.363	2000	291.90	0.643
SSW-F1.5EXTC28	0.32	± 0.010	1.5	0.396	2000	234.78	0.79
SSW-F1.5EXTC27	0.361	± 0.010	1.5	0.437	2000	184.84	0.993
SSW-F1.5EXTC26	0.404	± 0.010	1.5	0.48	2000	147.44	1.232
SSW-F1.5EXTC25	0.455	± 0.010	1.5	0.531	2000	116.34	1.549
SSW-F1.5EXTC24	0.511	± 0.020	1.5	0.587	2000	92.26	1.939
SSW-F1.5EXTC23	0.574	± 0.020	1.5	0.65	2000	72.97	2.429
SSW-F1.5EXTC22	0.643	± 0.020	1.5	0.719	2000	58.23	3.031
SSW-F1.5EXTC21	0.724	± 0.020	1.5	0.8	2000	45.90	3.821
SSW-F1.5EXTC20	0.813	± 0.020	1.5	0.889	2000	36.38	4.796
SSW-F1.5EXTC19	0.912	± 0.020	1.5	0.988	2000	28.92	6.01
SSW-F1.5EXTC18	1.02	± 0.030	1.5	1.096	2000	22.95	7.491

SSW-F[®] Dupont[™] Tefzel[®] ETFE 3.0 mils/Layer

Structure



A

B

A. Conductor

B. Extruded Insulation :Dupont[™]Tefzel[®] ETFE**Size Range:** 0.079mm - 1.02mm**Conductor:**

Solid Bare Copper

Tinned copper

Nickel plated copper

Magnet Wires (OBMW2)

Insulation:Extruded Insulation: Dupont[™]Tefzel[®] ETFE**Rating:**

Temp Class: 155°C

Rated Volts: 1000Vpeak

Compliances:

UL OBJT2 File Number: E242198

UL 60950-1, Annex U

RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
SSW-F3.0EXTC40	0.079	±0.008	3.0	0.231	4500	4058.40	0.107
SSW-F3.0EXTC39	0.089	±0.008	3.0	0.241	4500	3159.78	0.123
SSW-F3.0EXTC38	0.102	±0.008	3.0	0.254	4500	2401.57	0.146
SSW-F3.0EXTC37	0.114	±0.008	3.0	0.266	4500	1886.81	0.169
SSW-F3.0EXTC36	0.127	±0.008	3.0	0.279	4500	1521.33	0.196
SSW-F3.0EXTC35	0.142	±0.008	3.0	0.294	4500	1207.68	0.231
SSW-F3.0EXTC34	0.16	±0.008	3.0	0.312	4500	950.13	0.276
SSW-F3.0EXTC33	0.18	±0.008	3.0	0.332	4500	748.69	0.332
SSW-F3.0EXTC32	0.203	±0.008	3.0	0.355	4500	585.30	0.403
SSW-F3.0EXTC31	0.226	±0.008	3.0	0.378	4500	471.78	0.481
SSW-F3.0EXTC30	0.254	±0.008	3.0	0.406	4500	372.70	0.586
SSW-F3.0EXTC29	0.287	± 0.010	3.0	0.439	4500	291.90	0.725
SSW-F3.0EXTC28	0.32	± 0.010	3.0	0.472	4500	234.78	0.878
SSW-F3.0EXTC27	0.361	± 0.010	3.0	0.513	4500	184.84	1.09
SSW-F3.0EXTC26	0.404	± 0.010	3.0	0.556	4500	147.44	1.338
SSW-F3.0EXTC25	0.455	± 0.010	3.0	0.607	4500	116.34	1.665
SSW-F3.0EXTC24	0.511	± 0.020	3.0	0.663	4500	92.26	2.066
SSW-F3.0EXTC23	0.574	± 0.020	3.0	0.726	4500	72.97	2.57
SSW-F3.0EXTC22	0.643	± 0.020	3.0	0.795	4500	58.23	3.185
SSW-F3.0EXTC21	0.724	± 0.020	3.0	0.876	4500	45.90	3.992
SSW-F3.0EXTC20	0.813	± 0.020	3.0	0.965	4500	36.38	4.985
SSW-F3.0EXTC19	0.912	± 0.020	3.0	1.064	4500	28.92	6.219
SSW-F3.0EXTC18	1.02	± 0.030	3.0	1.172	4500	22.95	7.722

SDW-H Dupont™ Teflon® PFA 1.5 mils/Layer

I Structure



A **B** **C**
 A. Conductor
 B. 1st Extruded Insulation :PFA
 C. 2nd Extruded Insulation :PFA

Size Range: 0.079mm - 1.02mm

Conductor:

- Solid Bare Copper
- Tinned copper
- Nickel plated copper
- Magnet Wires (OBMW2)

Insulation:

- 1st Extruded Insulation: PFA
- 2nd Extruded Insulation : PFA

Rating:

- Temp Class: 180°C
- Rated Volts: 1000Vpeak

Compliances:

- UL OBJT2 File Number: E242198
- UL 60950-1, Annex U
- RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
SDW-H1.5PXXTC40	0.079	±0.008	3.0	0.231	4500	4058.40	0.108
SDW-H1.5PXXTC39	0.089	±0.008	3.0	0.241	4500	3159.78	0.124
SDW-H1.5PXXTC38	0.102	±0.008	3.0	0.254	4500	2401.57	0.147
SDW-H1.5PXXTC37	0.114	±0.008	3.0	0.266	4500	1886.81	0.17
SDW-H1.5PXXTC36	0.127	±0.008	3.0	0.279	4500	1521.33	0.197
SDW-H1.5PXXTC35	0.142	±0.008	3.0	0.294	4500	1207.68	0.231
SDW-H1.5PXXTC34	0.16	±0.008	3.0	0.312	4500	950.13	0.277
SDW-H1.5PXXTC33	0.18	±0.008	3.0	0.332	4500	748.69	0.333
SDW-H1.5PXXTC32	0.203	±0.008	3.0	0.355	4500	585.30	0.404
SDW-H1.5PXXTC31	0.226	±0.008	3.0	0.378	4500	471.78	0.482
SDW-H1.5PXXTC30	0.254	±0.008	3.0	0.406	4500	372.70	0.588
SDW-H1.5PXXTC29	0.287	± 0.010	3.0	0.439	4500	291.90	0.726
SDW-H1.5PXXTC28	0.32	± 0.010	3.0	0.472	4500	234.78	0.88
SDW-H1.5PXXTC27	0.361	± 0.010	3.0	0.513	4500	184.84	1.092
SDW-H1.5PXXTC26	0.404	± 0.010	3.0	0.556	4500	147.44	1.339
SDW-H1.5PXXTC25	0.455	± 0.010	3.0	0.607	4500	116.34	1.667
SDW-H1.5PXXTC24	0.511	± 0.020	3.0	0.663	4500	92.26	2.068
SDW-H1.5PXXTC23	0.574	± 0.020	3.0	0.726	4500	72.97	2.572
SDW-H1.5PXXTC22	0.643	± 0.020	3.0	0.795	4500	58.23	3.187
SDW-H1.5PXXTC21	0.724	± 0.020	3.0	0.876	4500	45.90	3.994
SDW-H1.5PXXTC20	0.813	± 0.020	3.0	0.965	4500	36.38	4.987
SDW-H1.5PXXTC19	0.912	± 0.020	3.0	1.064	4500	28.92	6.222
SDW-H1.5PXXTC18	1.02	± 0.030	3.0	1.172	4500	22.95	7.725

SDW-H Dupont™ Teflon® PFA 2.0 mils/Layer

I Structure



A. Conductor
 B. 1st Extruded Insulation : PFA
 C. 2nd Extruded Insulation : PFA

Size Range:
Conductor:

Solid Bare Copper
 Tinned copper
 Nickel plated copper
 Magnet Wires (OBMW2)

Insulation:

1st Extruded Insulation: PFA
 2nd Extruded Insulation : PFA

Rating:

Temp Class: 180°C
 Rated Volts: 1000Vpeak

Compliances:

UL OBJT2 File Number: E242198
 UL 60950-1, Annex U
 RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
SDW-H2.0PXTC40	0.079	±0.008	4.0	0.279	4500	4058.40	0.143
SDW-H2.0PXTC39	0.089	±0.008	4.0	0.289	4500	3159.78	0.16
SDW-H2.0PXTC38	0.102	±0.008	4.0	0.302	4500	2401.57	0.185
SDW-H2.0PXTC37	0.114	±0.008	4.0	0.314	4500	1886.81	0.21
SDW-H2.0PXTC36	0.127	±0.008	4.0	0.327	4500	1521.33	0.239
SDW-H2.0PXTC35	0.142	±0.008	4.0	0.342	4500	1207.68	0.275
SDW-H2.0PXTC34	0.16	±0.008	4.0	0.36	4500	950.13	0.323
SDW-H2.0PXTC33	0.18	±0.008	4.0	0.38	4500	748.69	0.381
SDW-H2.0PXTC32	0.203	±0.008	4.0	0.403	4500	585.30	0.456
SDW-H2.0PXTC31	0.226	±0.008	4.0	0.426	4500	471.78	0.537
SDW-H2.0PXTC30	0.254	±0.008	4.0	0.454	4500	372.70	0.646
SDW-H2.0PXTC29	0.287	± 0.010	4.0	0.487	4500	291.90	0.789
SDW-H2.0PXTC28	0.32	± 0.010	4.0	0.52	4500	234.78	0.947
SDW-H2.0PXTC27	0.361	± 0.010	4.0	0.561	4500	184.84	1.165
SDW-H2.0PXTC26	0.404	± 0.010	4.0	0.604	4500	147.44	1.419
SDW-H2.0PXTC25	0.455	± 0.010	4.0	0.655	4500	116.34	1.753
SDW-H2.0PXTC24	0.511	± 0.020	4.0	0.711	4500	92.26	2.162
SDW-H2.0PXTC23	0.574	± 0.020	4.0	0.774	4500	72.97	2.674
SDW-H2.0PXTC22	0.643	± 0.020	4.0	0.843	4500	58.23	3.299
SDW-H2.0PXTC21	0.724	± 0.020	4.0	0.924	4500	45.90	4.117
SDW-H2.0PXTC20	0.813	± 0.020	4.0	1.013	4500	36.38	5.122
SDW-H2.0PXTC19	0.912	± 0.020	4.0	1.112	4500	28.92	6.37
SDW-H2.0PXTC18	1.02	± 0.030	4.0	1.22	4500	22.95	7.888

SDW-H Dupont™ Teflon® PFA 3.0 mils/Layer

I Structure



A. Conductor
 B. 1st Extruded Insulation :PFA
 C. 2nd Extruded Insulation :PFA

Size Range: 0.079mm - 1.02mm

Conductor:

- Solid Bare Copper
- Tinned copper
- Nickel plated copper
- Magnet Wires (OBMW2)

Insulation:

- 1st Extruded Insulation: PFA
- 2nd Extruded Insulation : PFA

Rating:

- Temp Class: 180°C
- Rated Volts: 1000Vpeak

Compliances:

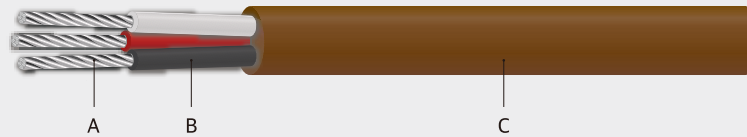
- UL OBJT2 File Number: E242198
- UL 60950-1, Annex U
- RoHS Compliant

Part No.	Dimensions				Break Down Voltage (V)	Maximum Conductor Resistance (Ω/km)	Weight (kg/km)
	Conductor (mm)		Insulation Thickness(mils)	Typical Overall Diameter (mm)			
	Diameter	Tolerance					
SDW-H3.0PXTC40	0.079	±0.008	6.0	0.383	9000	4058.40	0.234
SDW-H3.0PXTC39	0.089	±0.008	6.0	0.393	9000	3159.78	0.254
SDW-H3.0PXTC38	0.102	±0.008	6.0	0.406	9000	2401.57	0.282
SDW-H3.0PXTC37	0.114	±0.008	6.0	0.418	9000	1886.81	0.31
SDW-H3.0PXTC36	0.127	±0.008	6.0	0.431	9000	1521.33	0.343
SDW-H3.0PXTC35	0.142	±0.008	6.0	0.446	9000	1207.68	0.383
SDW-H3.0PXTC34	0.16	±0.008	6.0	0.464	9000	950.13	0.436
SDW-H3.0PXTC33	0.18	±0.008	6.0	0.484	9000	748.69	0.5
SDW-H3.0PXTC32	0.203	±0.008	6.0	0.507	9000	585.30	0.58
SDW-H3.0PXTC31	0.226	±0.008	6.0	0.53	9000	471.78	0.668
SDW-H3.0PXTC30	0.254	±0.008	6.0	0.558	9000	372.70	0.785
SDW-H3.0PXTC29	0.287	± 0.010	6.0	0.591	9000	291.90	0.937
SDW-H3.0PXTC28	0.32	± 0.010	6.0	0.624	9000	234.78	1.104
SDW-H3.0PXTC27	0.361	± 0.010	6.0	0.665	9000	184.84	1.332
SDW-H3.0PXTC26	0.404	± 0.010	6.0	0.708	9000	147.44	1.598
SDW-H3.0PXTC25	0.455	± 0.010	6.0	0.759	9000	116.34	1.946
SDW-H3.0PXTC24	0.511	± 0.020	6.0	0.815	9000	92.26	2.37
SDW-H3.0PXTC23	0.574	± 0.020	6.0	0.878	9000	72.97	2.899
SDW-H3.0PXTC22	0.643	± 0.020	6.0	0.947	9000	58.23	3543
SDW-H3.0PXTC21	0.724	± 0.020	6.0	1.028	9000	45.90	4.383
SDW-H3.0PXTC20	0.813	± 0.020	6.0	1.117	9000	36.38	5.412
SDW-H3.0PXTC19	0.912	± 0.020	6.0	1.216	9000	28.92	6.687
SDW-H3.0PXTC18	1.02	± 0.030	6.0	1.324	9000	22.95	8.234

GENICONE[®] Heat-resistant Cable [YSMIC, YSMIC-SB, SIF/SIHF]

GENICONE[®]

Heat-resist Cable [YSMIC, YSMIC-SB, SIF/SIHF]



A. Conductor : Tinned-Copper wire (IEC 60228, Class5).

B. Insulator : Rubber.

C. Jacket : Silicone Rubber.

Application

- Power supply or controller cables for Power plant (heat-resistant).
- Instrument wiring and lead wires in Steel Plants, Glass or Ceramic Plants.
- Signal transmission lines with noise shielding of instruments and Equipment at harsh thermal environment.
- Heat-resistant and flame-retardant places where direct or indirect exposure to firearms is required.
- Cable for Chemical Plant.
- For plant and control instruments.
- Wiring in switch box in high-temperature environments and instrument wiring of pastry baking machine.

Product Characteristics

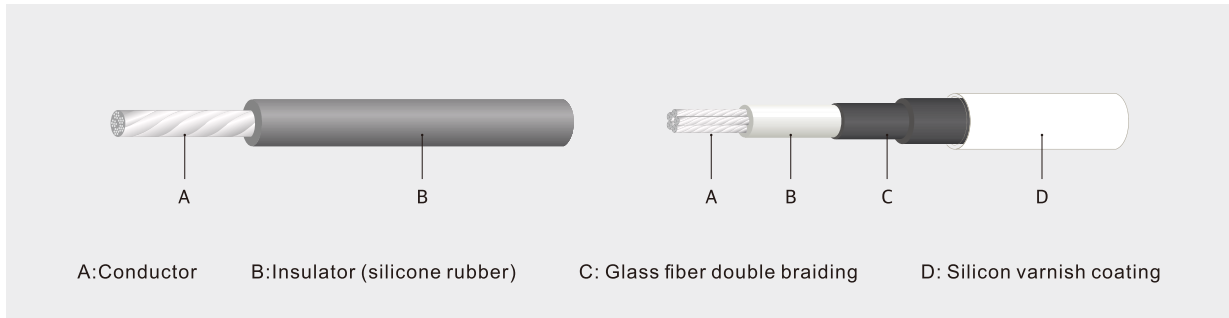
- * Physicochemical characteristic
 - Workable Temp Range : -60°C~180°C (Peak 230°C) .
 - Excellent bending characteristics and flexibility (minimum radius of curvature (Fixed installation: outer diameter x4, intermittent movement: outer wall diameter x15) Good resistance to instantaneous thermal shock.
 - Can impart flame retardancy and self-digestibility.
- * Electrical properties
 - Rated voltage : 600V/1000V
 - Test voltage : 3000V/5 minutes

Certification Standard

-UL approval (File number : EI20271), AWM 4389(150°C or 200°C 600V)

GENICONE[®] High strength silicon rubber insulation, Glass fiber double braided wire LK, LKGB-W

STRUCTURE



Application

- Lead wires of instruments requiring heat resistance
- Heat-resistant wires such as Generators and Motors, leads of Heavy machine, Vehicles and Ships, etc.
- Wiring for ignition

Product characteristic

- Strong heat/cold resistance (-60°C~180°C)
- Good Flexibility and easy wiring.
- Good for shock resistance and tension resistance.

Electrical characteristic

- Rated voltage grade: 600V, 1, 500V, 3, 300V, 6, 600V
- Testing voltage: JIS 3315.

Environmental assurance

This product does not contain environmentally harmful substances.

Such as, Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium compound (Cr6+), PPBs, PBDEs and Phthalates

GENICONE® Multi-core composite structure cable MULTI CABLE

STRUCTURE



For shielding and protection, the copper wires were taping or woven on the conductor.

Application

- Power or control cable for Power plant(heat-resistant, high voltage).
- Wiring or wire harness in instruments of Steel mill, Glass and Ceramic plants.
- Electromagnetic shielding for Signal transmission line of instrument.
- Heat-resistant and flame-retardant places where direct or indirect exposure to firearms is required.
- Cable for Chemical Plant.
- Wiring in switch box in high-temperature environments and instrument wiring of pastry baking machine.

Product characteristic

- Good heat and cold resistance. (Max heat-resistant Temp is 250°C)
- Good flexibility and flexibility.
- Good electrical insulation and stable quality.
- Good choice under variety conditions, such as High voltage, Electromagnetic shielding, flame retardant, oil resistance, Chemical resistance.
- The combination and design of special structures are possible. (meet customer's requirement)

PRODUCT IDENTIFICATION

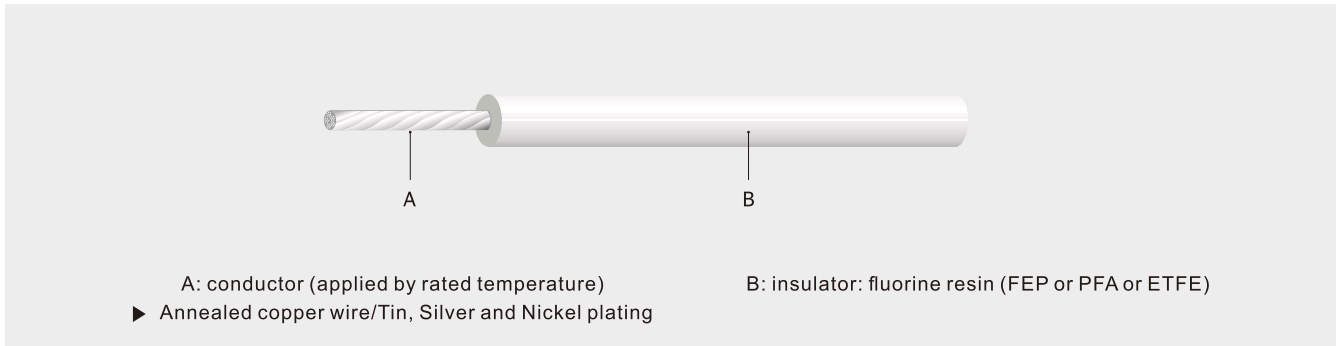
Y F S K 600V 2.0 SQ-7C

① ② ③ ④ ⑤ ⑥ ⑦

- ① COMPANY INITIAL
- ② 1st Insulation (F-FEP, P-PFA, K-SILICON, V-PVC, G - GLASS FIBER).
- ③ Shield : copper, SUS-304,Al-Mylar tape, Galvanized steel.
- ④ Jacket material
- ⑤ Rated voltage grade
- ⑥ Fragmentary
- ⑦ Core Number(C : Twist, P: Pair).

BESFLON® Fluorine resin insulated wire FEP, PFA,ETFE

PRODUCT IDENTIFICATION



Application

Plated copper wires mainly used for internal wiring of electronic equipment. Which required heat-resistant. Insulated by fluoride resin.

Product characteristic

* Physicochemical characteristic

- allowable temperature: +150 °C or +200°C or +250°C (depending on UL style)
- Good flame and chemical resistance in chemical environment.
- Better than humid and other harsh environments.
- Excellent mechanical strength
- Good flame retardancy (meeting UL VW-1 conditions)

* Electrical characteristic

- Rated voltage: 300V or 600V (depending on the U/L condition)
- Test voltage: 2, 000V/ min (depending on the U/L condition)

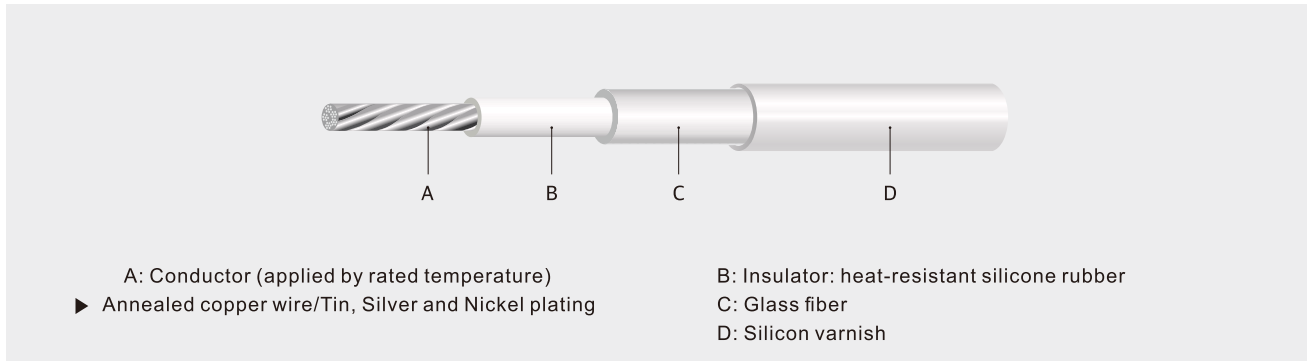
Environmental assurance

This product does not contain environmentally harmful substances.

Such as, Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium compound (Cr6+), PPBs, PBDEs and Phthalates

GENICONE® Silicon rubber insulated glass fiber braided wire SRG WIRE

STRUCTURE



Application

-For reinforce physical strength and heat-resistance, Added fiber glass braided wire in silicon insulator and treat with special heat-resistant varnish. which is used in motors, Heavy Electric machine, Automotive electronics, other high-Temp inside household appliances, etc.

Product characteristic

- * Physicochemical characteristic
 - Allowable temperature: +150°C or +200 °C (depending on UL condition).
 - High resistance for heat/ cold resistance,
 - Good flexibility and electrical insulation.
 - It can be used under various condition such as high heat and high pressure.

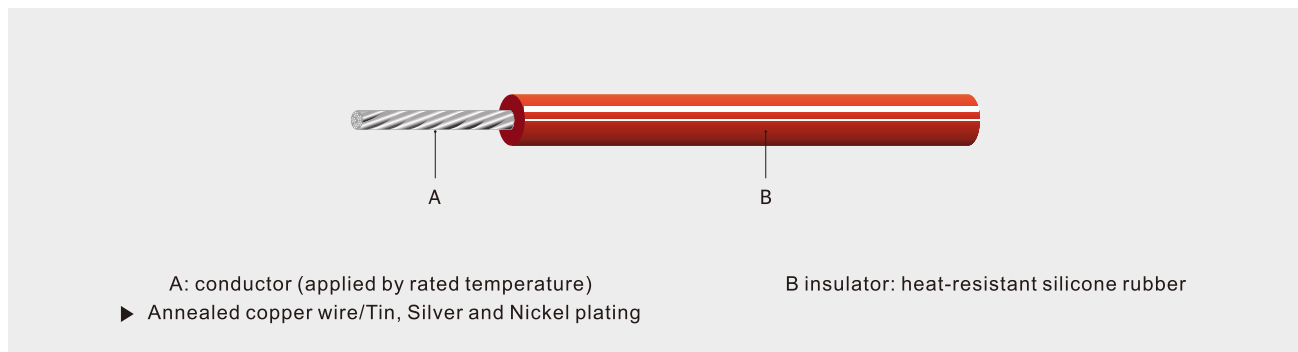
- * Electrical characteristics
 - Rated Voltage : 300V or 600V (depending on UL condition)
 - Testing voltage: 2,000V/min (depending on UL condition).

Environmental assurance

This product does not contain environmentally harmful substances. Such as, Lead (Pb), Mercury (Hg) , Cardmium (Cd), Hexavalent Chromium compound (Cr6+), PPBs, PBDEs and Phthalates

GENICONE[®] Silicone rubber insulated wire KC WIRE

I PRODUCT IDENTIFICATION



I Application

Silicone rubber wire is mainly used for internal wiring of instruments in high temperature environment. Inverters, lighting equipment and heating equipment are widely used.

I Product characteristic

* Physicochemical characteristic

- Allowable temperature: -60°C to +200°C
- High heat and cold resistance, Good flexibility and electrical insulation.
- It can be used for various purposes such as high heat, high pressure, etc.
- It can be used in environments requiring flexibility compared with SRG.

* Electrical characteristics (electrical)

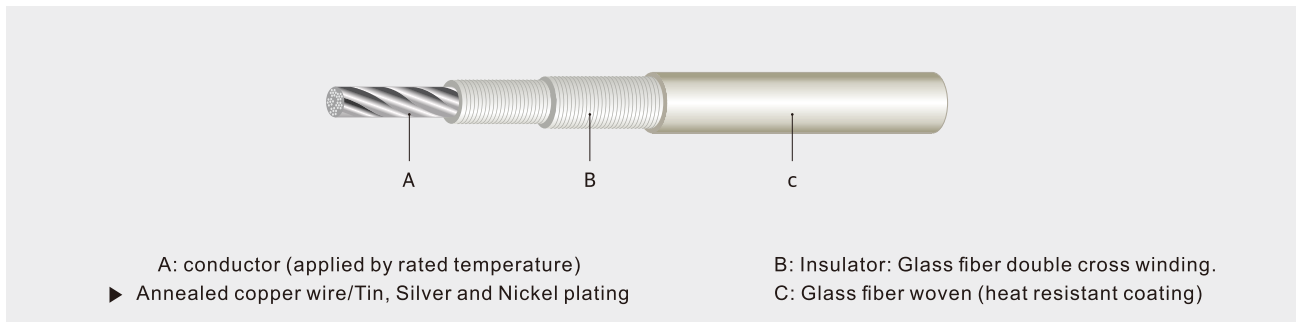
- Rated voltage: 300V/600V or 1,000V (depending on the U/L condition)
- Test voltage: 2,000V/min (depending on the U/L condition)

I Environmental assurance

This product does not contain environmentally harmful substances.
Such as, Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium compound (Cr6+), PPBs, PBDEs and Phthalates

GENICONE[®] Glass fiber cross winding braided wire GCL-WIRE

STRUCTURE



Application

It is suitable for various lead wire for Heater, Electric furnace, wiring for ship/car engines, high-temperature ovens, cooking instruments and other lead extrusion and injection molding equipment, high-temperature lead wires and other hot parts.

Product characteristic

- * Physicochemical characteristic
 - The allowable temperature : +200°C or +300°C or +400°C.
 - Excellent heat resistance in harsh environment.
 - Excellent usability (peeling, wiring harness).

- * Electrical characteristics.
 - Rated voltage: 300 volts
 - Test voltage: 2000V/ min

Environmental assurance

This product does not contain environmentally harmful substances. Such as, Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent Chromium compound (Cr6+), PPBs, PBDEs and Phthalates

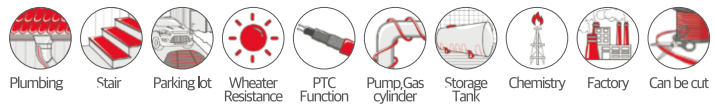
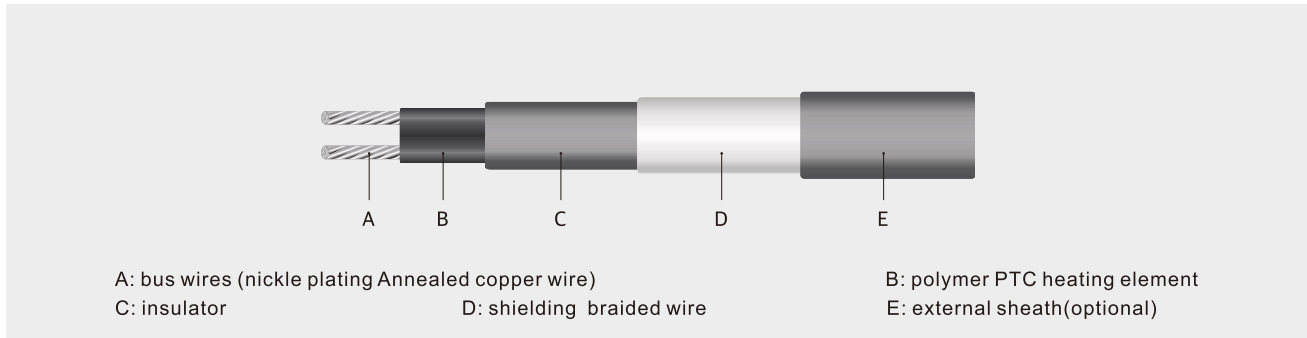
Product Specifications

temperature grade		GCL-200(TA)		GCL-300(NI)		GCL-400(NI)	
		200°C		300°C		400°C	
Section area (m)	Strands(mm(φ))	Complete outer	tolerance diameter	Complete outer	tolerance diameter	Complete outer	tolerance diameter
Color		White/Black		White/Red		Natural	
0.50	20 / 0.18	1.80	± 0.20	1.80	± 0.20	2.35	± 0.20
0.75	30 / 0.18	2.30	± 0.20	2.30	± 0.20	2.50	± 0.20
1.25	50 / 0.18	2.60	± 0.20	2.60	± 0.20	2.80	± 0.20
2.00	37 / 0.26	3.00	± 0.20	3.00	± 0.20	3.15	± 0.30
3.50	44 / 0.32	3.80	± 0.30	3.80	± 0.30	3.85	± 0.30
5.50	68 / 0.32	4.50	± 0.30	4.50	± 0.30	4.65	± 0.50
8.00	50 / 0.45	5.30	± 0.30	5.30	± 0.30	5.40	± 0.50
14.00	7 / 38 / 0.26	7.70	± 0.50	7.70	± 0.50	7.80	± 0.70

HEATRACE[®] Autonomous Control Heating Cable



STRUCTURE



Product Characteristics

- Self-adjusting calorific value according to ambient temperature, high thermal efficiency.
- According to the field conditions, the circuit length can be used after unlimited cutting.
- The construction is simple, and there is no fear of fire when stacked.

Application

- Temperature maintenance and prevention freeze and burst of industrial facilities and pipelines.
- Anti-icing and slush of roofs and ditches
- Architecture, engineering (chemical plant, power station, heating engineering)

PRODUCT SELECTION CODE

16	ASH	2	C	R
▲	▲	▲	▲	▲
	The name of the model (MSH, ASH, SMH)	Rate voltage 1: 100-120 Vac 2: 200-277 Vac	Shielding weaving	Sheath R: Flame Retardant Fluorocarbon F: Fluoride resin V:PVC

PRODUCT FEATURE



- Project ID : 3039323
- Class I II III Division 2
- Group A, B, C, D, F and G NEMA Type 4X



- File No. E120271 / AWM 20152
(90°C -300V, VW-1)



- 2Ex e IIA IIB IIC T5 Gb



- Ex e IIC T6 Gb Ta=-20°C to +65°C
std. IEC 60079-30-1 : 2007-01

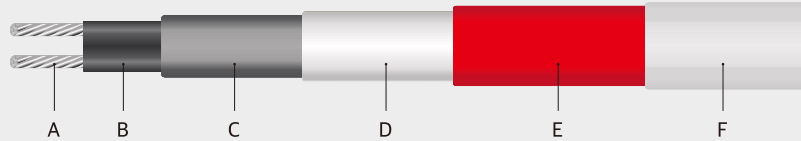


HEATRACE® Autonomous control heating cable



STRUCTURE

Withstand temp. up to 85°C / Water heating application / Micro size for pipe-fitting / Approved to EAC for use in non hazardous areas / Output can be customized



- A: Bus wire (Annealed copper wire/Ni plating)
- B: Polymer PTC heater
- C: Insulator
- D: Shield woven
- E: Non-toxic Olefin resin
- F: (Label present in diagram but no text description provided)

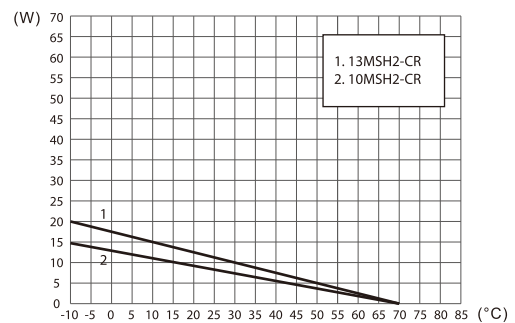
SPECIFICATION

Model	10MSH	13MSH
Calorific value (based on 10°C)	10 W/m	13 W/m
Max continuous use temp	65°C	
Max instantaneous allowable temperature	85°C (T-Rating 6)	
Min temperature	-20°C	
Rated voltage	220V	
Shield woven resistance	18.2 Ω/km (Max.)	
Bare size (mm)	6.0 × 2.9	
Nom. size (mm)	8.0 × 5.0	
Packing unit (m/Bobbin)	400	
Weight (g/m)	40	

PRODUCT CHARACTERISTICS

Lightweight type of size, can be installed inside the pipeline to prevent external frost and keep temperature. FDA approved non-toxic, internal drinking water pipes can be installed

Output by temp.



Select circuit & circuit length

Model	Initial operating temperature -10°C				Initial operating temperature -20°C			
	10A	15A	20A	30A	10A	15A	20A	30A
10MSH	125	128	128	128	98	128	128	128
13MSH	110	119	119	119	78	117	119	119

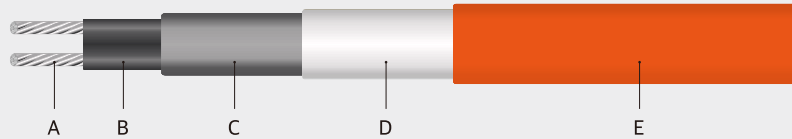
* The longest circuit length (m) according to operating temperature(°C) and circuit breaker size (Amps)

HEATRACE® Autonomous control heating cable



PRODUCT IDENTIFICATION

Withstand temp. up to 85°C / Concrete road, entrance & exit of tunnel, outside parking lot of APT and building, amusement park, etc / Output can be customized



A: Bus wire (interlocking wire of plating line)

B: polymer PTC heating element

C: flame-retardant olefin resin

D: shield woven

E: sheath for flame-retardant

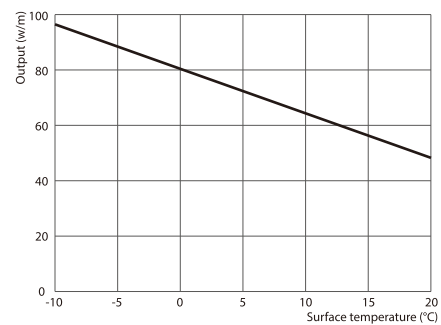
SPECIFICATION

Model	SMH
Calorific value (based on 10°C)	80 w/m
Maximum continuous service temperature	65°C
Max instantaneous allowable temperature	85°C (T-Rating 6)
Min temperature	-20°C
Rated voltage	220V
Shield woven resistance	18.2 Ω/km (Max.)
Bare size (mm)	13.3 × 4.4
Nom. size(mm)	16.9 × 8.0
Packing unit(m/ Bobbin)	200
Weight (g/m)	212

PRODUCT CHARACTERISTICS

- Heater-wire can be set directly under the concrete.
 - Good for Outdoor snow and frozen area
- Different from ordinary metal resistance wires, according to the parallel circuit structure, it can be cut to the required precise length.

Output by temp.



Product selection

80 MSH 2 - C V

Caloric value Type Rate V shield woven sheath

Caloric value : 80(80 w/m)at 230Vac 0°C in concrete

Heating cable type : SMH

Rate V : 1; 100 ~ 120Vac , 2; 200 ~ 277Vac ,

Shield woven : C(Tin plated annealed copper wire)

Sheath : R=lame Retardant olefin, V= Flame Retardant PVC



Certificate

ISO 9001



ISO 14001

IATF 16949

Certificate

Triple insulation Wire UL Certified



ATEX Certified

FM certified

TR-CU(舊GOST)

SELF IECEX

Silicone Wire UL Certified



RoHS Report



More Technology, Better Cabled Since 1986

