omerin

QS TECHNOLOGIES DIVISION

SPECIALTY
WIRES, CABLES & BRAIDED SLEEVINGS

omerin
QS TECHNOLOGIES DIVISION

OMERIN is an expert in high performances wires, cables & braided sleevings for extreme conditions and environments. Our head office and main production division is based in France. We operate 16 production sites with 1700 employees and $324M global sales.

Our facility in Meriden, Connecticut has been manufacturing high performance wire and cable since 1984. Our team provides standards-compliant products as well as specialty cable designed to customer needs. Our numerous years of experience have led us to produce ingenious solutions to the most challenging application problems.

MADE IN USA

INSULATION MATERIALS:
PVC, PE, PP, TPE, TPR, TPU, ETFE, FEP, PFA, PTFE, silicone rubber, mica, fiberglass, polyimide, para-aramids, meta-aramids, high temperature fibers.

CONDUCTORS, ELECTRICAL AND MECHANICAL SHIELDING:
Bare copper, tin-plated copper, nickel-plated copper, silver-plated copper, nickel, silver, aluminum, resistance alloys, thermocouple alloys, stainless steel, galvanized steel, PET/aluminum tape, miscellaneous metals and alloys.

KNOW-HOW AND TECHNOLOGIES:
Bunching, cabling, extrusion from .005" WT (wall thickness) to 1.5" OD (outside diameter), braiding, wrapping, taping, sintering, winding, inkjet and contact printing, color striping, laser skiving.

100% QUALITY CONTROL INCLUDING INFRARED THERMAL TESTING FOR HEATING CABLES.

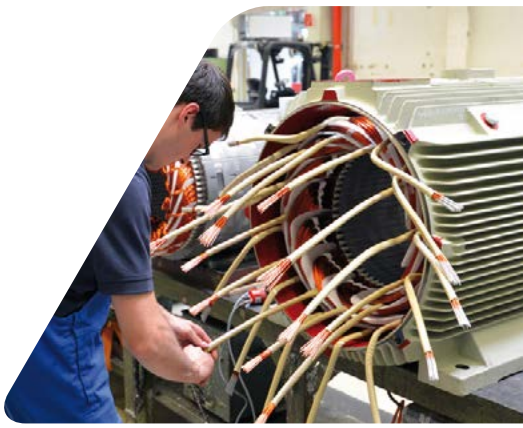
www.omerin-usa.com

Our specialties:

- **General wiring**
- **High temperature wires & cables**
- **Highly flexible medium voltage cables**
- **Highly flexible instrumentation & control cables**
- **Military cables**
- **Thermocouple & RTD sensor cables**
- **Tray cables**
- **Industrial cables**
- **High temperature braided sleevings**
- **Heating cables**
- **Flexible heating elements**

(for more information please consult our dedicated catalog "Heating cables &flexible heating elements")

THERMAL CLASSIFICATION OF INSULATIONS



- Borosilicoaluminate fiber — +1200 °C
- Ceramic fiber — +1100 °C
- Phlogopite mica — +1000 °C
- Silica fiber — +900 °C
- FIBERGLASS type R or S, Mineral fibre type A — +400 °C
- FIBERGLASS type E — +280 °C
- PTFE / PFA / Polyimide — +260 °C
- Silicone THT — +250 °C
- FEP — +205 °C
- XL-ETFE — +200 °C
- Silicone — +180 °C
- ETFE / VARPREN® — +155 °C
- PET — +130 °C
- XLPO — +125 °C
- TPU — +120 °C
- PVC / HFFR — +105 °C
- XLPE — +90 °C
- HDPE — +80 °C
- LDPE — +70 °C
- **0 °C**
- PVC / HFFR / XLPO / VARPREN® — -30 °C
- LDPE / HDPE / XLPE / TPU — -50 °C
- Silicone — -60 °C
- PTFE / PFA / FEP / ETFE / Polyimide — -90 °C
- -160 °C (Liquid methane)
- -183 °C (Liquid oxygen)
- -196 °C (Liquid nitrogen)
- -253 °C (Liquid hydrogen)
- -273.15 °C (Absolute zero)

Cryogenic temperatures: In this range, only fluorinated insulations (ETFE, FEP, PFA, PTFE) or polyimide insulations retain their mechanical properties. They can therefore be used as insulations, under certain conditions. For more information contact us.

TRADEMARKS OF THE OMERIN GROUP

CERAFIL®
Miniature ceramic insulated wires for very high temperatures

COUPLIX®
High temperature thermocouple and extension cables

ELECTROAIR®
Aerospace & Defense wires and cables

HIFLEX®
Highly flexible instrumentation and control cables

PLASTHERM®
Thermoplastic & TPE wires & cables

QS TECH®
Customized and Made in USA cables

SILICABLE®
Specialty high temperature wires and cables

SILICOUL®
Medium voltage class H (180°C) power cables

SILIFLAM®
Safety cables for extreme temperatures and fire related applications

SILIFLON®
Fluoropolymer insulated high temperature wires and cables

SILIGAINE®
Braided insulating sleevings

SILITUBE®
Braided or extruded tubes

SONDIX®
RTD sensor cables

VARPREN®
Wires and cables with special cross-linked Varpren® insulation

ASR American Systems Registrar ANAB ISO 9001 : 2015 Quality Management System

UL E93624

CSA 076610

FM APPROVED

Ex

RoHS COMPLIANT

Mil Spec

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PRODUCT LIST

PRODUCT LIST

GENERAL WIRING

THERMOPLASTIC INSULATED WIRE
80°C / 105°C / 125°C

PRODUCT REFERENCE	**FT Nr**	Page
PLASTHERM® 80°C PVC	FTUS-1101	12
PLASTHERM® 105°C PVC	FTUS-1102	13
PLASTHERM® 105°C TPE	FTUS-1103	14
PLASTHERM® 125°C TPE	FTUS-1104	15

CROSS LINKED ELASTOMER INSULATED WIRE
125°C

PRODUCT REFERENCE	**FT Nr**	Page
VARPREN® 125°C Cross linked Varpren® elastomer	FTUS-1105	16

THERMOPLASTIC MULTICONDUCTOR CABLE
80°C / 105°C

PRODUCT REFERENCE	**FT Nr**	Page
PLASTHERM® 80°C PVC	FTUS-1106	17
PLASTHERM® 90°C PVC	FTUS-1107	18
PLASTHERM® 105°C PVC	FTUS-1108	19

HIGH TEMPERATURE & VW-1 WIRES & CABLES

CROSS LINKED ELASTOMER INSULATED WIRE
150°C / 200°C

PRODUCT REFERENCE	FT Nr	Page
VARPREN® 150°C Cross linked Varpren® elastomer	FTUS-1201	21
SILICABLE® 150°C Silicone	FTUS-1202	22
SILICABLE® 200°C Silicone	FTUS-1203	23
SILICABLE® 150°C Fiberglass braided silicone	FTUS-1204	24
SILICABLE® 200°C Fiberglass braided silicone	FTUS-1205	25
SILICABLE® VW-1 Silicone	FTUS-1206	26
SILICABLE® VW-1 Fiberglass braided silicone	FTUS-1207	27
SILICABLE® HV Silicone *(ignition wires)*	FTUS-1208	28

FLUOROPOLYMER INSULATED WIRE
150°C / 200°C / 250°C

PRODUCT REFERENCE	FT Nr	Page
SILIFLON® 150°C ETFE	FTUS-1209	29
SILIFLON® 200°C ETFE or FEP	FTUS-1210	30
SILIFLON® 250°C PFA	FTUS-1211	31
SILIFLON® 250°C PTFE *(wrapped)*	FTUS-1212	32
SILIFLON® 150°C Fiberglass braided ETFE	FTUS-1213	33
SILIFLON® 200°C Fiberglass braided FEP	FTUS-1214	34
SILIFLON® VW-1 Fluoropolymer	FTUS-1215	35
SILIFLON® HV Fluoropolymer *(ignition wires)*	FTUS-1216	36

COMPOSITE INSULATED WIRE
250°C / 350°C / 450°C

PRODUCT REFERENCE	FT Nr	Page
SILICABLE® 250°C Composite	FTUS-1217	37
SILICABLE® 350°C Composite	FTUS-1218	38
SILICABLE® 450°C Composite	FTUS-1219	39

CROSS LINKED ELASTOMER MULTICONDUCTOR CABLE
150°C / 200°C

PRODUCT REFERENCE	FT Nr	Page
SILICABLE® 150°C Silicone	FTUS-1220	40
SILICABLE® 200°C Silicone	FTUS-1221	41
SILICABLE® 150°C Silicone *(with fluoropolymer insulation)*	FTUS-1222	42
SILICABLE® 200°C Silicone *(with fluoropolymer insulation)*	FTUS-1223	43
SILICABLE® VW-1 Silicone	FTUS-1224	44

FLUOROPOLYMER MULTICONDUCTOR CABLE
150°C / 200°C

PRODUCT REFERENCE	FT Nr	Page
SILIFLON® 150°C Fluoropolymer	FTUS-1225	45
SILIFLON® 200°C Fluoropolymer	FTUS-1226	46

PRODUCT LIST

HIGHLY FLEXIBLE MEDIUM VOLTAGE CABLES

CLASS H CONNECTION CABLE
1.1 kV / 4.2 kV / 7.2 kV / 15 kV

PRODUCT REFERENCE	FT Nr	Page
SILICOUL® 1.1 kV Fiberglass braided silicone	FTUS-1301	50
SILICOUL® 4.2 kV Fiberglass braided silicone	FTUS-1302	51
SILICOUL® 7.2 kV Fiberglass braided silicone	FTUS-1303	52
SILICOUL® 15 kV Fiberglass braided silicone	FTUS-1304	53
SILICOUL® OPTIONS DI, SCR, ALU FLEX	FTUS-1305	54

HIGHLY FLEXIBLE INSTRUMENTATION & CONTROL CABLES

HIGH FLEXIBLE CONTROL CABLE
GENERAL SHIELDED (GS)

PRODUCT REFERENCE	FT Nr	Page
HIFLEX® CONTROL GS 600 105°C TPU jacket / FEP insulation	FTUS-2101	56

DUAL SHIELDED (DS)

PRODUCT REFERENCE	FT Nr	Page
HIFLEX® CONTROL DS 300 125°C TPE jacket / TPE insulation	FTUS-2102	57
HIFLEX® CONTROL DS 600 125°C TPE jacket / TPE insulation	FTUS-2103	58

HIGH FLEXIBLE INSTRUMENTATION CABLE
DUAL SHIELDED (DS)

PRODUCT REFERENCE	FT Nr	Page
HIFLEX® INSTRUM. DS 600 105°C TPU jacket / FEP insulation	FTUS-2104	59

GENERAL & INDIVIDUALLY SHIELDED (GS IS)

PRODUCT REFERENCE	FT Nr	Page
HIFLEX® INSTRUM. GS IS 300 105°C TPU jacket / FEP insulation	FTUS-2105	60

DUAL & INDIVIDUALLY SHIELDED (DS IS)

PRODUCT REFERENCE	FT Nr	Page
HIFLEX® INSTRUM. DS IS 600 105°C TPU jacket / FEP insulation	FTUS-2106	61

MILITARY CABLES

SHIELDED MULTICONDUCTOR CABLE

PRODUCT REFERENCE	FT Nr	Page
ELECTROAIR® MEEBA-APTFE PTFE (wrapped) jacket / Silver plated copper braid / PTFE insulation	FTUS-3201	64
ELECTROAIR® M6BA-APTFE FEP jacket / Silver plated copper braid / PTFE insulation	FTUS-3202	65
ELECTROAIR® M6BA-A6 FEP jacket / Silver plated copper braid / FEP insulation	FTUS-3203	66

PRODUCT LIST

THERMOCOUPLE & RTD SENSOR CABLES

THERMOCOUPLE CABLE

Thermocouple grade J, K, T, E
Extension grade JX, KX, TX, EX

PRODUCT REFERENCE	FT Nr	Page
COUPLIX® 105°C / 200°C / 260°C	FTUS-4101	68

RTD SENSOR CABLE

PRODUCT REFERENCE	FT Nr	Page
SONDIX®	FTUS-4102	70

TRAY CABLES

HIGH TEMPERATURE

PRODUCT REFERENCE	FT Nr	Page
SILIFLON® TC 200°C Unshielded version	FTUS-5101	72
SILIFLON® TC 200°C GS General shielded version	FTUS-5102	73
SILIFLON® TC 200°C DS Dual shielded version	FTUS-5103	74

INDUSTRIAL CABLES

CUSTOM

PRODUCT REFERENCE	FT Nr	Page
QS TECH® Custom cables	FTUS-6101	76

UP TO +1400°C

PRODUCT REFERENCE	FT Nr	Page
SILIFLAM® THS Safety cables for extreme temperatures and fire related applications	FTUS-6102	77

WORLD TECHNOLOGY INNOVATION AWARD

PRODUCT REFERENCE	FT Nr	Page
CERAFIL® CN8 Miniature ceramic insulated wires for very high temperatures	FTUS-6103	78

WET 90°C PERMANENT

PRODUCT REFERENCE	FT Nr	Page
QS TECH® PBS 90 R Power cable for high temperature submersible pumps	FTUS-6104	79

PRODUCT LIST

HIGH TEMPERATURE BRAIDED SLEEVINGS

ELECTRICAL INSULATING SLEEVINGS
Class F / 155°C

PRODUCT REFERENCE	FT Nr	Page
SILIGAINE® 13F4 Polyurethane varnish coated fiberglass sleeving 4,000 V	FTUS-7101	82
SILIGAINE® 16F2 Acrylic coated fiberglass sleeving 2,000 V	FTUS-7102	83
SILIGAINE® 16F3 Acrylic coated fiberglass sleeving 3,000 V	FTUS-7103	84
SILIGAINE® 16F7 GRADE A Acrylic coated fiberglass sleeving 7,000 V grade A	FTUS-7104	85

MISCELLANEOUS SLEEVINGS
Very high temperature

PRODUCT REFERENCE	FT Nr	Page
SILIGAINE® 21F1 Resin impregnated fiberglass flame retardant sleeving +280°C	FTUS-7301	90
SILIGAINE® 24C1 Heat treated & silicone varnish impregnated fiberglass flame retardant sleeving +350°C	FTUS-7302	91
SILIGAINE® 31-1 Heat treated fiberglass flame retardant sleeving +450°C	FTUS-7303	92
SILIGAINE® 31C1E Heat treated & varnish imprgnated fiberglass flame retardant stretchable sleeving +350°C	FTUS-7304	93

ELECTRICAL INSULATING SLEEVINGS

ELECTRICAL INSULATING SLEEVINGS
Class H & C / 180°C

PRODUCT REFERENCE	FT Nr	Page
SILIGAINE® 15C2 Silicone coated fiberglass flame retardant 2,000 V	FTUS-7201	86
SILIGAINE® 15C3 Silicone coated fiberglass flame retardant 3,000 V	FTUS-7202	87
SILIGAINE® 15C4 Silicone coated fiberglass flame retardant 4,000 V	FTUS-7203	88
SILIGAINE® 15C7 GRADE A Silicone coated fiberglass flame retardant 7,000 V grade A	FTUS-7204	89

GENERAL WIRING

PLASTHERM® 80°C

PVC insulated wires

- ***Operating temp. -30°C to +80°C***
- ***300 V / 600 V / 1,000 V***
- *Good chemical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded PVC insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

Voltage	300 V		600 V		1,000 V	
UL	1007 / 1581		1011		1030	
cUL	-		AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.043	1.5	.073	3.1	.073	3.1
28	.045	1.9	.075	3.6	.075	3.6
26	.049	2.4	.083	4.5	.083	4.5
24	.055	3.4	.087	5.5	.087	5.5
22	.059	4.9	.091	7.2	.091	7.2
20	.069	8.0	.102	10.7	.102	10.7
18	.079	12.1	.110	14.9	.110	14.9
16	.091	17.2	.118	20.0	.118	20.0
14	.106	28.2	.136	31.6	.136	31.6
12	.126	42.5	.154	46.2	.154	46.2
10	.150	63.9	.177	68.2	.177	68.2
8	-	-	.244	120	-	-
6	-	-	.323	196	-	-
4	-	-	.378	327	-	-
2	-	-	.433	495	-	-
1	-	-	.512	684	-	-
1/0	-	-	.575	855	-	-
2/0	-	-	.638	1,075	-	-
3/0	-	-	.693	1,315	-	-
4/0	-	-	.752	1,600	-	-
Flame ratings	Horizontal		Horizontal / FT1			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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PLASTHERM® 105°C

PVC insulated wires

- ***Operating temp. -30°C to +105°C***
- ***300 V / 600 V / 1,000 V***
- *Good chemical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2- Extruded PVC insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

Voltage	300 V		600 V		1,000 V	
UL	1569 / 10198		1015		10269	
cUL	-		AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.043	1.5	.073	3.1	.073	3.1
28	.045	1.9	.075	3.6	.075	3.6
26	.049	2.3	.083	4.5	.083	4.5
24	.055	3.4	.087	5.5	.087	5.5
22	.063	5.2	.091	7.2	.091	7.2
20	.071	8.1	.102	10.7	.098	10.3
18	.081	12.2	.110	14.9	.110	14.9
16	.091	17.2	.118	20.0	.122	20.4
14	.106	28.2	.136	31.6	.138	31.9
12	.126	42.5	.154	46.2	.154	46.2
10	.150	63.9	.177	68.2	.177	68.2
8	.217	114	.244	120	.244	120
6	.272	181	.323	196	.323	196
4	.319	308	.378	327	.378	327
2	.381	475	.437	496	.437	496
1	.449	655	.512	684	.512	684
1/0	.492	813	.575	855	.575	855
2/0	.555	1,028	.638	1,075	.638	1,075
3/0	.618	1,268	.693	1,315	.693	1,315
4/0	.681	1,552	.752	1,600	.752	1,600
Flame ratings	Horizontal		Horizontal / FT1			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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PLASTHERM® 105°C

TPE insulated wires

- ***Operating temp. -50°C to +105°C***
- ***300 V / 600 V***
- *High flexibility*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded TPE insulation

Approvals - standards
- Compliance UL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

Voltage	300 V		600 V	
UL	1790		10322	
cUL	-		-	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.042	0.9	.052	1.3
28	.045	1.2	.055	1.6
26	.050	1.6	.060	2.1
24	.055	2.3	.065	2.7
22	.060	3.1	.070	3.6
20	.070	4.6	.080	5.2
18	.080	6.5	.090	7.1
16	.090	9.7	.100	10.4
14	-	-	.115	15.2
12	-	-	.135	23.2
10	-	-	.160	35.7
8	-	-	.210	58.1
6	-	-	.290	95.6
4	-	-	.340	146.0
2	-	-	.410	225.7
1	-	-	.480	295.0
1/0	-	-	.520	361.6
2/0	-	-	.570	454.1
3/0	-	-	.630	559.5
Flame ratings	Horizontal			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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PLASTHERM® 125°C

TPE insulated wires

- ***Operating temp. -50°C to +125°C***
- ***300 V / 600 V***
- *Good resistance to thermal shock*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2- Extruded TPE insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

Voltage	300 V		600 V	
UL	1888		1722	
cUL	-		-	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.042	1.0	.072	2.2
28	.045	1.2	.075	2.5
26	.050	1.6	.080	3.0
24	.055	2.2	.085	3.7
22	.060	3.2	.090	4.8
20	.070	4.5	.100	6.3
18	.080	6.5	.110	8.5
16	.090	9.6	.120	11.9
14	-	-	.135	17.0
12	-	-	.155	25.0
10	-	-	.185	37.9
8	-	-	.240	62.5
6	-	-	.320	101.2
4	-	-	.370	153.5
2	-	-	.440	232.5
1	-	-	.520	304.2
1/0	-	-	.560	374.7
2/0	-	-	.620	469.6
3/0	-	-	.670	575.3
4/0	-	-	.730	714.1
Flame ratings	Horizontal			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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VARPREN® 125°C

Varpren® insulated wires

- ***Operating temp. -30°C to +125°C***
- ***300 V / 600 V***
- *Halogen free*
- *High flexibility*
- *Good resistance to common chemical influences and impregnating varnish*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded Varpren® insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = white, black, blue, brown, red or yellow/green
Surface marking

Voltage	300 V		600 V	
UL	3266		3271	
cUL	AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
22	.063	7.6	.093	7.6
20	.069	11.0	.102	11.0
18	.081	15.2	.110	15.2
16	.093	20.8	.122	20.8
14	.106	31.8	.134	31.8
12	.126	47.3	.158	47.3
10	.154	70.3	.185	70.3
8	-	-	.248	122
6	-	-	.307	193
4	-	-	.362	324
2	-	-	.445	503
1	-	-	.488	676
1/0	-	-	.535	838
2/0	-	-	.583	1,047
3/0	-	-	.642	1,288
4/0	-	-	.709	1,576
Flame ratings	Horizontal / FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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PLASTHERM® 80°C

PVC multiconductor cables

- ***Operating temp. -30°C to +80°C***
- ***300 V / 600 V / 1,000 V***
- *Good chemical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded PVC insulation
3 - Extruded PVC outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: External or internal wiring of appliances

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Black or White
Surface marking

Voltage		300 V		600 V or 1,000 V	
UL		2464		2570	
cUL		-		AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	26	.158	12.1	.224	22.4
3	26	.165	14.0	.240	26.4
4	26	.177	16.3	.260	30.7
5	26	.193	19.2	.284	35.8
2	24	.169	14.4	.232	24.6
3	24	.177	16.8	.248	29.1
4	24	.193	20.3	.268	34.0
5	24	.209	23.7	.295	40.5
2	22	.177	17.3	.240	27.9
3	22	.189	21.3	.256	33.3
4	22	.201	25.0	.280	40.1
5	22	.221	30.1	.303	46.6
2	20	.197	23.4	.264	35.7
3	20	.209	29.1	.280	43.1
4	20	.224	35.2	.307	52.7
5	20	.244	42.0	.335	62.0
2	18	.217	31.0	.280	43.5
3	18	.228	39.1	.299	54.2
4	18	.248	48.4	.327	66.3
5	18	.278	58.4	.358	79.2
Flame ratings		Cable flame		Cable flame / FT1	

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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FTUS-1107b

PLASTHERM® 90°C

PVC multiconductor cables

- ***Operating temp. -30°C to +90°C***
- ***300 V / 600 V***
- *Good chemical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded PVC insulation
3 - Extruded PVC outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: External or internal wiring of appliances

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Black or White
Surface marking

Voltage		300 V		600 V or 1,000 V	
UL		2464		2587	
cUL		-		AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	26	.154	11.6	.224	22.4
3	26	.161	13.5	.240	26.4
4	26	.173	15.8	.260	30.7
5	26	.189	18.7	.284	35.8
2	24	.169	14.4	.232	24.6
3	24	.177	16.8	.248	29.1
4	24	.193	20.3	.268	34.0
5	24	.209	23.7	.295	40.5
2	22	.185	18.5	.240	27.9
3	22	.197	22.5	.256	33.3
4	22	.213	27.0	.280	40.1
5	22	.228	31.4	.303	46.6
2	20	.201	24.0	.264	35.7
3	20	.213	29.8	.280	43.1
4	20	.232	36.7	.307	52.7
5	20	.252	43.6	.335	62.0
2	18	.221	31.7	.280	43.5
3	18	.232	39.8	.299	54.2
4	18	.256	50.0	.327	66.3
5	18	.280	60.1	.358	79.2
Flame ratings		Cable flame		Cable flame / FT1	

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96
)Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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PLASTHERM® 105°C

PVC multiconductor cables

- ***Operating temp. -30°C to +105°C***
- ***300 V / 600 V / 1,000 V***
- *Good chemical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded PVC insulation
3 - Extruded PVC outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: External or internal wiring of appliances

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Black or White
Surface marking

Voltage		300 V		600 V or 1,000 V	
UL		2517		2586	
cUL		-		AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	26	.154	11.6	.224	22.4
3	26	.161	13.5	.240	26.4
4	26	.173	15.8	.260	30.7
5	26	.189	18.7	.284	35.8
2	24	.169	14.4	.232	24.6
3	24	.177	16.8	.248	29.1
4	24	.193	20.3	.268	34.0
5	24	.209	23.7	.295	40.5
2	22	.185	18.5	.240	27.9
3	22	.197	22.5	.256	33.3
4	22	.213	27.0	.280	40.1
5	22	.228	31.4	.303	46.6
2	20	.201	24.0	.264	35.7
3	20	.213	29.8	.280	43.1
4	20	.232	36.7	.307	52.7
5	20	.252	43.6	.335	62.0
2	18	.221	31.7	.280	43.5
3	18	.232	39.8	.299	54.2
4	18	.256	50.0	.327	66.3
5	18	.280	60.1	.358	79.2
Flame ratings		Cable flame		Cable flame / FT1	

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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HIGH TEMPERATURE & VW-1 WIRES & CABLES

VARPREN® 150°C

Varpren® or XLFRPE insulated wires

- ***Operating temp. -30°C to +150°C***
- ***300 V / 600 V***
- *Halogen free*
- *High flexibility*
- *Good resistance to common chemical influences and impregnating varnish*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded Varpren® or XLFRPE insulation

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = white, black, blue, brown, red or yellow/green
Surface marking

Voltage	300 V	600 V
Insulation	XLFRPE	Varpren®
UL	3398	3289
cUL	AWM I A/B	AWM I A/B

AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. inear weight (lbs/mft)
24	.055	3.4	-	-
22	.063	5.1	.093	7.6
20	.071	8.1	.102	11.0
18	.079	12.2	.110	15.2
16	.091	17.4	.122	20.8
14	.102	28.2	.134	31.8
12	.126	42.7	.158	47.3
10	.154	64.2	.185	70.3
8	-	-	.248	122
6	-	-	.331	200
4	-	-	.386	333
2	-	-	.461	510
1	-	-	.536	701
1/0	-	-	.591	870
2/0	-	-	.650	1,09
3/0	-	-	.697	1,325
4/0	-	-	.772	1,624
Flame ratings	Horizontal / FT2			

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SILICABLE® 150°C

Silicone insulated wires

- ***Operating temp. -60°C to +150°C***
- ***300 V / 600 V / 1,000 V***
- *High flexibility*
- *Good resistance to thermal shock*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded Silicone insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

VW-1

VW-1 version available
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Voltage	300 V		600 V		1,000 V	
UL	3132		3529		3580	
cUL	-		AWM I A		AWM I A	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	.047	2.4	.079	4.4	.110	7.4
24	.055	3.4	.083	5.3	.114	8.5
22	.061	5.1	.093	7.6	.120	10.5
20	.069	8.1	.099	10.6	.134	14.7
18	.079	12.2	.110	15.2	.142	19.2
16	.091	17.4	.122	20.7	.150	24.5
14	.104	28.2	.138	32.3	.169	37.1
12	.126	42.7	.158	47.2	.181	51.3
10	.150	64.2	.209	74.8	.209	74.8
8	.181	107	.268	127	.268	127
6	.232	172	.331	200	.331	200
4	.287	299	.402	339	.402	339
2	.350	464	.449	504	.449	504
1	.398	635	.547	706	.547	706
1/0	.441	791	.591	869	.591	869
2/0	.484	994	.626	1,073	.626	1,073
3/0	.547	1,230	.693	1,321	.693	1,321
4/0	.610	1,510	.752	1,607	.752	1,607
Flame ratings	Horizontal		Horizontal / FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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SILICABLE® 200°C

Silicone insulated wires

- ***Operating temp. -60°C to +200°C***
- ***300 V / 600 V / 1,000 V***
- *High flexibility*
- *Good resistance to thermal shock*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2 - Extruded Silicone insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: External or Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

VW-1 version available
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Voltage	300 V		600 V		1,000 V (cUL 600 V)	
UL	3367		3135 / 3512		3572 / 3644	
cUL	AWM I A		AWM I A		AWM I A	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	.047	2.3	.079	4.1	.079	4.1
24	.055	3.3	.083	5.0	.083	5.0
22	.063	5.1	.095	7.3	.095	7.3
20	.071	8.0	.102	10.4	.102	10.4
18	.079	11.9	.106	14.2	.106	14.2
16	-	-	.120	19.8	.120	19.8
14	-	-	.142	32.0	.138	31.5
12	-	-	.158	46.3	.158	46.3
10	-	-	.209	73.1	.209	73.1
8	-	-	.240	118	.268	124
6	-	-	.327	195	.327	195
4	-	-	.386	328	.386	328
2	-	-	.433	492	.433	492
1	-	-	.532	689	.532	689
1/0	-	-	.579	850	.575	850
2/0	-	-	.630	1,065	.630	1,065
3/0	-	-	.701	1,313	.701	1,313
4/0	-	-	.787	1,617	.756	1,596
Flame ratings	Horizontal / FT2					

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 150°C

Fiberglass braided silicone insulated wires

- ***Operating temp. -60°C to +150°C***
- ***300 V / 600 V***
- *Good resistance to thermal shock*
- *Improved mechanical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded Silicone insulation
3 - Fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

VW-1 version available
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or color stripes
Surface marking

Voltage	300 V		600 V	
UL	3132		3069 / 3535	
cUL	AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	.059	3.0	.091	5.4
24	.067	4.2	.095	6.4
22	.075	6.1	.106	9.0
20	.083	9.1	.114	12.2
18	.091	13.2	.122	16.6
16	.102	18.5	.142	23.3
14	.118	29.7	.158	35.2
12	.146	45.4	.177	50.5
10	.169	67.3	.228	79.2
8	.201	111	.260	125
6	.252	177	.350	207
4	.307	305	.421	347
2	.370	471	.469	513
1	.417	643	.567	718
1/0	.461	800	.614	883
2/0	.504	1,003	.650	1,088
3/0	.567	1,241	.717	1,338
4/0	.634	1,524	.807	1,650
250MCM	-	-	.854	1,937
300MCM	-	-	.929	2,361
350MCM	-	-	.969	2,625
400MCM	-	-	1.008	3,027
500MCM	-	-	1.110	3,748
Flame ratings	Horizontal / FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 200°C

Fiberglass braided silicone insulated wires

- ***Operating temp. -60°C to +200°C***
- ***300 V / 600 V / 1,000 V***
- *Good resistance to thermal shock*
- *Improved mechanical resistance*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2 - Extruded Silicone insulation
3 - Fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or color stripes
Surface marking

VW-1 version available
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Voltage	300 V		600 V		1,000 V (cUL 600 V)	
UL	3122		3513		3645	
cUL	AWM I A/B		AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	.059	2.8	-	-	.122	7.9
24	.067	3.9	-	-	.126	9.0
22	.075	5.8	-	-	.138	11.8
20	.083	8.8	.114	11.6	.154	16.3
18	.091	12.8	.122	15.8	.161	20.8
16	.102	18.1	.142	22.4	.169	26.2
14	-	-	.158	34.1	.189	39.0
12	-	-	.177	49.2	.201	53.2
10	-	-	.228	76.9	.228	76.9
8	-	-	.260	122	.288	129
6	-	-	.350	202	.350	202
4	-	-	.421	340	.421	340
2	-	-	.469	506	.469	506
1	-	-	.567	707	.567	707
1/0	-	-	.614	871	.614	871
2/0	-	-	.650	1,076	.650	1,076
3/0	-	-	.717	1,323	.717	1,323
4/0	-	-	.807	1,631	.776	1,609
250MCM	-	-	.854	1,918	.854	1,918
300MCM	-	-	.929	2,338	.929	2,338
350MCM	-	-	.969	2,601	.969	2,601
400MCM	-	-	1.008	3,004	1.008	3,004
500MCM	-	-	-	-	1.110	3,721
600MCM	-	-	-	-	1.232	4,505
700MCM	-	-	-	-	1.307	5,207
750MCM	-	-	-	-	1.346	5,596
Flame ratings	Horizontal / FT2					

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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SILICABLE® VW-1

Silicone insulated wires

- ***Operating temp. -60°C to +150°C, +200°C***
- ***300 V / 600 V***
- *High flexibility*
- *Good resistance to thermal shock*
- *Enhanced fire performance*

Construction
1 - Stranded or solid tin plated or bare copper conductor
2 - Extruded Silicone insulation

Approvals - standards
- Compliance UL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = Black or black with colored spiral stripe

Voltage	300 V		600 V		600 V	
Temperature	150°C				200°C	
UL	3132-VW-1		3134-VW-1		3135-VW-1 / 3512-VW-1	
cUL	AWM I A		AWM I A		AWM I A	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	.047	2.4	-	-	.079	4.1
24	.055	3.4	-	-	.083	5.0
22	.061	5.1	-	-	.095	7.3
20	.069	8.1	-	-	.102	10.4
18	.079	12.2	.1063	14.7	.106	14.2
16	.091	17.4	.1220	20.7	.120	19.8
14	.104	28.2	.1417	32.8	.142	32.0
12	.126	42.7	.1575	47.2	.158	46.3
10	.150	64.2	-	-	.209	73.1
8	.181	107	-	-	.240	118
6	.232	172	-	-	.327	195
4	.287	299	-	-	.386	328
2	.350	464	-	-	.433	492
1	.398	635	-	-	.532	689
1/0	.441	791	-	-	.575	850
2/0	.484	994	-	-	.630	1,650
3/0	.547	1,23	-	-	.701	1,313
4/0	.610	1,51	-	-	.787	1,617
Flame ratings	VW-1 / Horizontal / FT2					

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® VW-1

Fiberglass braided silicone insulated wires

- ***Operating temp. -60°C to +200°C***
- ***300 V / 600 V / 1,000 V***
- *Good resistance to thermal shock*
- *Improved mechanical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor
2 - Extruded Silicone insulation
3 - Fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = All colors with or without colored spiral stripe
Surface marking

Voltage	300 V		600 V	
Temperature	200°C			
UL	3122-VW-1		3513-VW-1	
cUL	AWM I A/B		AWM I A/B	
Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	.059	2.8	-	-
24	.067	3.9	-	-
22	.075	5.8	-	-
20	.083	8.8	.114	11.6
18	.091	12.8	.122	15.8
16	.102	18.1	.142	22.4
14	-	-	.158	34.1
12	-	-	.177	49.2
10	-	-	.228	76.9
8	-	-	.260	122
6	-	-	.350	202
4	-	-	.421	340
2	-	-	.469	506
1	-	-	.567	707
1/0	-	-	.614	871
2/0	-	-	.650	1,076
3/0	-	-	.717	1,323
4/0	-	-	.807	1,631
Flame ratings	VW-1 / Horizontal / FT2			

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® HV

Reinforced silicone ignition cables

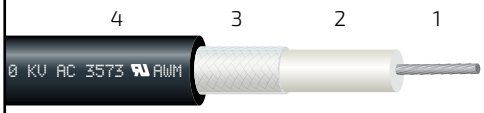
- ***Operating temp. -60°C to +200°C***
- ***10,000 V Pulse***
- *Good resistance to thermal shock*
- *Good UV resistance*
- *Improved mechanical resistance*

Construction
1 - Stranded or solid tin plated or bare copper conductor (strands > .015 in)
(Other material available on request)
2- Extruded silicone rubber insulation
3- Fiberglass braid

Construction
1- Stranded or solid tin plated or bare copper (strands > .015 in)
(Other material available on request)
2- Extruded silicone rubber insulation
3- Fiberglass braid
4- Extruded silicone rubber jacket

Approvals - standards
- Compliance UL file E101965
- RoHS Compliant

Reinforced version



Reinforced & jacketed version

Use: Internal Wiring of Electronic Ignition application in Gas Ranges or Gas or Fuel Oil Burner Systems where protected from damage during handling, installation and servicing of the appliance

Standard products
Standard insulation colors: white, black, brick red and colorless
Stranding of conducting conductors – please contact us
Surface marking

Voltage	10,000 V Pulse			
Version	Reinforced		Reinforced & jacketed	
cUL	3304		3573	
Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
22	.122	10.0	.126	10.4
20	.134	13.7	.142	14.7
18	.138	17.7	.146	18.6
16	.150	23.4	.161	25.0
14	.169	35.8	.181	37.7
12	.189	51.1	.197	52.5
Flame ratings	Horizontal			

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® 150°C

Fluoropolymer insulated wires

- ***Operating temp. -90°C to +150°C***
- ***300 V / 600 V / 1,000 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid tin plated or bare copper conductor
(other material available on request)
2 - Extruded fluoropolymer insulation

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410 for 300V and standard wall 600V styles
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color (including translucent)
Surface marking

VW-1 version available
*please consult our dedicated datasheet: **SILIFLON® VW-1***

Voltage	300 V				600 V				1,000 V	
Insulation	ETFE Thin wall		ETFE Standard wall		ETFE Ultra-Thin wall		ETFE Standard wall		ETFE Standard wall	
UL	10125 / 10358		1643		10210		1644		10358	
cUL	AWM I A/B				AWM I A/B				AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.024	.9	.037	1.6	-	-	.051	2.2	.051	2.2
28	.028	1.3	.041	2.1	-	-	.055	2.7	.055	2.7
26	.030	1.8	.045	2.7	-	-	.059	3.4	.059	3.4
24	.035	2.6	.051	3.7	.035	2.6	.065	4.4	.065	4.4
22	.041	4.2	.055	5.3	.041	4.2	.071	6.3	.071	6.3
20	.051	7.1	.065	8.4	.053	7.3	.079	9.3	.079	9.3
18	.061	11.1	.075	12.6	.061	11.1	.089	13.6	.089	13.6
16	.075	16.3	.087	18.0	.075	16.3	.098	18.8	.098	18.8
14	.089	26.9	.100	28.8	.089	26.9	.112	29.8	.112	29.8
12	.114	41.8	.122	43.7	.114	41.8	.128	43.8	.130	44.1
10	.142	63.8	.146	65.4	.142	63.8	.161	67.4	.161	67.4
8	.213	116	.209	115	-	-	.221	118	.213	116
6	.260	182	.248	179	-	-	.268	185	.268	185
4	.307	308	.291	303	-	-	.315	311	.315	311
2	.394	487	.366	474	-	-	.378	479	.378	479
1	.433	656	.421	649	-	-	.441	660	.441	660
1/0	.492	823	.461	805	-	-	.492	823	.492	823
2/0	.551	1,038	.504	1,008	-	-	.575	1,054	.551	1,038
3/0	.598	1,270	.567	1,247	-	-	.598	1,270	.598	1,270
4/0	.661	1,555	.630	1,530	-	-	.661	1,555	.661	1,555
Flame ratings	Horizontal / FT1, FT2									

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® 200°C

Fluoropolymer insulated wires

- ***Operating temp. -90°C to +200°C***
- ***300 V / 600 V / 1,000 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2 - Extruded fluoropolymer insulation

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410 for 300V and standard wall 600V styles
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color (including translucent)
Surface marking

VW-1

VW-1 version available
*please consult our dedicated datasheet: **SILIFLON ® VW-1 (Style 1332, Style 1330)***

Voltage	300 V				600 V				1,000 V			
Insulation	ETFE Thin wall		FEP Standard wall		ETFE Thin wall		FEP Standard wall		FTE Standard wall		FEP Thin wall	
UL	10109		1900		10086		1901		10203		10048	
cUL	AWM I A/B				AWM I A/B				AWM I A/B			
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.024	.9	.032	1.3	.032	1.2	.039	1.7	.051	2.5	.063	3.4
28	.028	1.3	.035	1.8	.035	1.7	.043	2.2	.055	3.1	.067	4.1
26	.032	1.8	.039	2.3	.039	2.2	.047	2.8	.059	3.8	.071	4.9
24	.035	2.6	.043	3.2	.043	3.0	.053	3.9	.065	4.9	.075	5.9
22	.041	4.2	.049	4.8	.049	4.7	.057	5.5	.071	6.8	.081	7.8
20	.051	7.1	.059	7.9	.059	7.7	.067	8.6	.079	9.9	.091	11.4
18	.061	11.1	.067	11.8	.067	11.6	.079	13.1	.089	14.3	.100	15.9
16	.075	16.3	.079	17.0	.079	16.7	.087	18.0	.098	19.6	.110	21.4
14	.089	26.9	.095	28.0	.095	27.6	.102	29.1	.118	31.6	.126	33.0
12	.114	41.8	.114	42.3	.126	43.5	.122	43.7	.134	45.9	.142	47.5
10	.142	63.8	.142	64.6	.150	65.2	.158	68.1	.158	68.1	.169	70.9
8	-	-	-	-	.213	116	.205	116	.220	121	-	-
6	-	-	-	-	.260	182	.248	182	.268	189	-	-
4	-	-	-	-	.307	308	.291	305	.315	316	-	-
2	-	-	-	-	.394	487	.366	478	.362	476	-	-
1	-	-	-	-	.433	656	.421	654	.441	667	-	-
1/0	-	-	-	-	.492	823	.461	810	.492	832	-	-
2/0	-	-	-	-	.551	1,038	.504	1,012	.551	1,049	-	-
3/0	-	-	-	-	.598	1,270	.567	1,254	.598	1,280	-	-
4/0	-	-	-	-	.661	1,555	.630	1,538	.661	1,568	-	-
Flame ratings	Horizontal / FT1, FT2											

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® 250°C

Fluoropolymer insulated wires

- ***Operating temp. -90°C to +250°C***
- ***150 V / 300 V / 600 V / 1,000 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid nickel plated conductor
(class 27 nickel plated or pure nickel on request)
2 - Extruded fluoropolymer insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color (including translucent)
Surface marking

VW-1 version available
*please consult our dedicated datasheet: **SILIFLON ® VW-1 (Style 1727)***

Voltage	150 V		300 V				600 V		1,000 V	
Insulation	PFA Standard wall		PFA Standard wall		PFA Standard wall		PFA Thin wall		PFA Thin wall	
UL	1882		10486		1726		10362		10371	
cUL	AWM I A/B		AWM I A/B				AWM I A/B			
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.032	1.3	.030	1.2	.037	1.6	.032	1.3	.051	2.5
28	.035	1.8	.034	1.7	.041	2.1	.035	1.8	.055	3.1
26	.039	2.3	.037	2.2	.045	2.7	.039	2.3	.059	3.8
24	.043	3.2	.043	3.2	.051	3.7	.043	3.2	.065	4.9
22	.049	4.8	.047	4.7	.057	5.5	.049	4.8	.071	6.8
20	.059	7.9	.059	7.9	.065	8.4	.059	7.9	.079	9.9
18	.071	12.2	.069	12.0	.075	12.6	.071	12.2	.087	14.0
16	.079	17.0	.079	17.0	.087	18.0	.079	17.0	.097	19.3
14	-	-	.091	27.4	.102	29.1	.095	28.0	.110	30.3
12	-	-	.110	41.7	.126	44.4	.114	42.3	.134	45.9
10	-	-	.142	64.6	.154	67.2	.142	64.6	.165	69.9
8	-	-	-	-	.205	116	.228	124	.224	123
6	-	-	-	-	.248	182	-	-	.268	189
4	-	-	-	-	.315	316	-	-	.315	316
2	-	-	-	-	.378	484	-	-	.378	484
1	-	-	-	-	.441	667	-	-	.441	667
1/0	-	-	-	-	.492	832	-	-	.492	832
2/0	-	-	-	-	.551	1,049	-	-	.551	1,049
3/0	-	-	-	-	.598	1,280	-	-	.598	1,280
4/0	-	-	-	-	.661	1,568	-	-	.661	1,568
Flame ratings	Horizontal / FT1, FT2									

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® 250°C

Wrapped PTFE insulated wires

- ***Operating temp. -90°C to +250°C***
- ***300 V / 600 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*
- *Miniature size & lightweight*

Construction
1 - Stranded nickel plated copper conductor
2 - Wrapped and sintered PTFE tape(s)

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color
Surface marking

Voltage	600 V	
UL	10506	
cUL	AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.026	1.0
28	.030	1.5
26	.034	2.1
24	.039	2.9
22	.046	4.6
20	.054	7.5
18	.067	11.9
16	.077	16.9
14	.092	27.6
12	.117	42.9
Flame ratings	Horizontal / FT1, FT2	

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® 150°C

Fiberglass braided fluoropolymer insulated wires

- ***Operating temp. -60°C to +150°C***
- ***600 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded ETFE insulation
3 – Lacquered synthetic braid

Approvals - standards
- Compliance UL/cUL file E101965
- Compliance CSA 22.2 N°125 – TYPE CL1505
- RoHS Compliant

Use: Internal wiring of appliances, hermetically sealed motors

Standard products
Color coding = single color, or color stripes
Marking on the extruded layer

Voltage	600 V			
Conductor	SOLID		STRANDED	
UL	10935			
cUL	AWM I A/B			
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
24	.045	3.1	.047	3.2
22	.047	4.5	.051	4.8
20	.057	7.5	.063	7.9
18	.063	11.2	.069	11.7
16	.079	16.6	.087	17.4
14	.091	27.1	.098	28.0
12	-	-	.126	43.4
10	-	-	.154	65.8
8	-	-	.205	114
6	-	-	.268	185
4	-	-	.319	313
2	-	-	.382	481
1	-	-	.445	661
1/0	-	-	.488	820
2/0	-	-	.532	1,024
3/0	-	-	.595	1,266
4/0	-	-	.658	1,550
Flame ratings	Horizontal / FT1, FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

OMERIN USA, Inc. QS Technologies division
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SILIFLON® 200°C

Fiberglass braided fluoropolymer insulated wires

- ***Operating temp. -90°C to +200°C***
- ***300 V / 600 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2 - Extruded FEP insulation
3 – Lacquered fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

Use: Internal wiring of appliances, hermetically sealed motors

Standard products
Color coding = single color, or color stripes
Marking on the extruded layer

Voltage	600 V			
Conductor	SOLID		STRANDED	
UL	11881			
cUL	AWM I A/B			
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
24	.045	3.1	.047	3.2
22	.047	4.5	.051	4.8
20	.057	7.5	.063	7.9
18	.063	11.2	.069	11.7
16	.079	16.6	.087	17.4
14	.091	27.1	.098	28.0
12	-	-	.126	43.4
10	-	-	.154	65.8
8	-	-	.205	114
6	-	-	.268	185
4	-	-	.319	313
2	-	-	.382	481
1	-	-	.445	661
1/0	-	-	.488	820
2/0	-	-	.532	1,024
3/0	-	-	.595	1,266
4/0	-	-	.658	1,550
Flame ratings	Horizontal / FT1, FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® VW-1

Fluoropolymer insulated wires

- ***Operating temp. -90°C to +150°C, +200°C, +250°C***
- ***300 V / 600 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*
- *Enhanced fire performance*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor
2 - Extruded fluoropolymer insulation

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410 for FEP and ETFE styles
- RoHS Compliant

Use: Internal wiring of appliances or electronic equipment

Standard products
Color coding = single color, or 2-colors
Surface marking

Voltage	300 V		600 V		300 V		600 V		600 V	
Temperature	150°C				200°C				250°C	
Insulation	FEP Standard wall		Thin wall ETFE		FEP Thick wall		FEP Thick wall		PFA Standard wall	
UL	1333-VW-1		10126-VW-1		1332-VW-1		1330-VW-1		1727-VW-1	
cUL	AWM I A/B				AWM I A/B				AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.037	1.6	.032	1.2	.037	1.6	.051	2.5	.051	2.5
28	.041	2.1	.035	1.7	.041	2.1	.055	3.1	.055	3.1
26	.045	2.7	.041	2.3	.045	2.7	.059	3.8	.059	3.8
24	.051	3.7	.045	3.1	.051	3.7	.065	4.9	.065	4.9
22	.055	5.3	.051	4.8	.057	5.5	.073	7.0	.071	6.8
20	.065	8.4	.059	7.7	.067	8.6	.079	9.9	.079	9.9
18	.075	12.6	.071	11.9	.075	12.6	.089	14.3	.087	14.0
16	.087	18.0	.079	16.7	.083	17.5	.098	19.6	.097	19.3
14	.100	28.8	.095	27.6	.106	29.7	.118	31.6	.112	30.6
12	.122	43.7	.126	43.5	.126	44.4	.134	45.9	.134	45.9
10	.146	65.4	.161	67.4	.154	67.2	.158	68.1	.165	69.9
8	-	-	.213	116	-	-	.209	118	.224	123
6	-	-	.260	182	-	-	.268	189	.268	189
4	-	-	.307	308	-	-	.315	316	.315	316
2	-	-	.394	487	-	-	.362	476	.378	484
1	-	-	.433	656	-	-	.441	667	.441	667
1/0	-	-	.492	823	-	-	.492	832	.492	832
2/0	-	-	.551	1,038	-	-	.551	1,049	.551	1,049
3/0	-	-	.598	1,270	-	-	.598	1,280	.598	1,280
4/0	-	-	.661	1,555	-	-	.661	1,568	.661	1,568
Flame ratings	Horizontal / FT1, FT2									

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® HV

Fluoropolymer ignition cables

- ***Operating temp. -90°C to +250°C***
- ***3,000 V Pulse / 10,000 V Pulse / 20,000 V Pulse***
- *Good resistance to thermal shock*
- *Good UV resistance*
- *Improved mechanical resistance*
- *Space saving & lightweight*

Construction
1 - Stranded or solid, tin, silver, nickel plated copper conductor
2- Fluoropolymer insulation

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: Internal Wiring of Electronic Ignition application in Gas Ranges or Gas or Fuel Oil Burner Systems where protected from damage during handling, installation and servicing of the appliance

Standard products
All colors including translucent
Stranding of conducting conductors – please contact us
Surface marking

Voltage	3,000 V Pulse		10,000 V Pulse				20,000 V Pulse			
Temperature	200°C		150°C		200°C		150°C		250°C	
UL	1813-F200		10185-E150		10185-E200		1911-F150		1911-F250	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
30	.063	3.4	-	-	-	-	-	-	-	-
28	.067	4.1	-	-	-	-	-	-	-	-
26	.071	4.9	-	-	-	-	-	-	-	-
24	.075	5.9	.055	3.7	.055	3.7	.063	4.7	.071	5.5
22	.081	7.8	.059	5.3	.059	5.3	.069	6.6	.077	7.4
20	.091	11.4	.067	8.2	.067	8.2	.079	9.9	.085	10.6
18	.100	15.9	.079	12.6	.079	12.6	.087	14.0	.098	15.6
16	.110	21.4	.087	17.4	.087	17.4	.098	19.6	.106	20.7
14	.124	32.7	.102	28.5	.102	28.5	.114	31.0	.118	31.6
12	.144	47.9	.122	42.9	.122	42.9	.132	45.5	.142	47.5
10	.169	70.9	.150	65.1	.150	65.1	.158	68.1	.167	70.4
Flame ratings	Horizontal / FT1								Horizontal	

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 250°C

Composite insulated wires

- ***Max operating temp. +250°C***
- ***300 V / 600 V***
- *Good resistance to thermal shock*
- *Good resistance to oxidization*

Construction
1 - Stranded or solid nickel plated copper or pure nickel conductor
2 – Composite insulation: PTFE tape(s) and/or fiberglass lappings + fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

Use: High temperature appliances wiring material

Standard products
Color coding = single color, or color stripes
Surface marking

Voltage	300 V		600 V	
UL	5257		5256 / 5196	
cUL	AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
24	.055	4.2	.063	5.0
22	.059	5.9	.067	6.7
20	.067	8.9	.083	10.8
18	.083	13.9	.091	15.1
16	.102	20.8	.110	22.1
14	.118	32.3	.126	33.9
12	.138	47.6	.146	49.4
10	.169	72.2	.177	74.4
8	.221	124	.228	126
6	.276	196	.284	199
4	.323	323	.331	327
2	.394	498	.402	503
1	-	-	.488	707
1/0	-	-	.532	871
2/0	-	-	.583	1,085
3/0	-	-	.634	1,324
4/0	-	-	.701	1,621
Flame ratings	Horizontal / FT2			

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 350°C

Composite insulated wires

- ***Max operating temp. +350°C***
- ***300 V / 600 V***
- *Good resistance to thermal shock*
- *Good resistance to oxidization*

Construction
1 - Stranded or solid 27% nickel plated copper or pure nickel conductor
2 – Composite insulation: Mica tape(s) and/or fiberglass lapping + fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant

Use: Very high temperature appliances wiring material

Standard products
Color coding = single color, or color stripes
Surface marking

Voltage	300 V		600 V	
UL	5294		5304	
cUL	AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
24	.087	7.9	.098	9.7
22	.095	10.3	.102	11.6
20	.102	13.8	.114	15.9
18	.110	18.3	.122	20.5
16	.122	24.4	.134	26.8
14	.138	36.5	.150	39.2
12	.158	52.3	.169	55.5
10	.193	79.2	.217	87.1
Flame ratings	Horizontal / FT2			

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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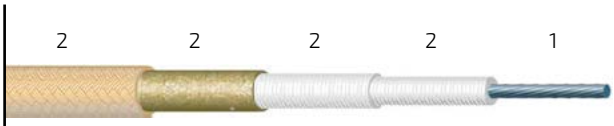
SILICABLE® 450°C

Composite insulated wires

- ***Max operating temp. +450°C***
- ***300 V / 600 V***
- *Good resistance to thermal shock*
- *Good resistance to oxidization*

Construction
1 - Stranded or solid 27% nickel plated copper or pure nickel conductor
2 – Composite insulation: Mica tape(s) and/or fiberglass lapping + fiberglass braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant



Use: High temperature appliances wiring material

Standard products
Color coding = single color, or color stripes
Surface marking

Voltage	300 V		600 V	
UL	5168		5107	
cUL	AWM I A/B		AWM I A/B	
AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
26	-	-	.091	7.9
24	.067	5.4	.095	9.1
22	.075	7.6	.102	11.6
20	.083	10.8	.110	15.2
18	.091	15.1	.118	19.8
16	.102	20.8	.130	26.0
14	.118	32.3	.146	38.3
12	.138	47.6	.165	54.4
10	.205	83.0	.228	91.4
8	.236	129	.260	139
6	.284	199	.303	209
4	.343	334	.362	345
2	.429	522	.449	536
1	.465	689	.484	704
1/0	.512	854	.532	871
2/0	.567	1,071	.587	1,089
3/0	.614	1,304	.634	1,324
4/0	.673	1,590	.693	1,612
Flame ratings	Horizontal / FT2			

Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 150°C

Silicone multiconductor cables

- ***Operating temp. -60°C to +150°C***
- ***300 V / 600 V / 1,000 V***
- *High flexibility*
- *Good resistance to thermal shock*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2- Extruded silicone rubber insulation
3- Extruded silicone outer jacket
Optional shield: consult us

Approvals - standards
• Compliance UL/cUL file E93624
• RoHS Compliant

Use: External or Internal wiring of appliances or electronic equipment
(External wiring only for version with 45 mils wall jacket)

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Brick red (*Consult us for other colors*)
Surface marking

VW-1 Approved Style 4389
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Voltage		300 V			600 V			1,000 V (cUL 600 V)		
Jacket		Silicone								
		Wall 30 mils	Wall 45 mils		Wall 30 mils	Wall 45 mils		Wall 30 mils	Wall 45 mils	
UL		4476-S150								
cUL		-	-		AWM I A	AWM II A/B		AWM I A	AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	.154	.181	16.6	.217	.244	28.1	.280	.307	42.7
3	**26**	.161	.189	18.7	.228	.260	32.4	.295	.327	48.9
4	**26**	.173	.201	21.3	.248	.280	37.2	.323	.354	56.7
5	**26**	.185	.217	24.7	.272	.299	41.9	.354	.386	65.5
2	**24**	.169	.197	20.0	.232	.260	32.2	.287	.315	45.6
3	**24**	.177	.209	23.3	.244	.276	37.1	.303	.335	52.3
4	**24**	.189	.221	26.5	.268	.295	42.5	.335	.362	60.5
5	**24**	.209	.236	30.3	.291	.323	49.9	.366	.398	71.2
2	**22**	.181	.209	23.8	.244	.272	36.6	.299	.327	50.5
3	**22**	.189	.221	28.1	.256	.287	42.5	.319	.347	58.2
4	**22**	.205	.236	33.0	.280	.311	50.0	.347	.378	68.9
5	**22**	.224	.252	37.8	.307	.339	58.4	.382	.413	80.6
2	**20**	.197	.224	29.8	.256	.284	42.5	.327	.354	61.4
3	**20**	.209	.236	35.8	.272	.299	50.1	.347	.378	72.5
4	**20**	.224	.256	43.3	.295	.327	60.4	.382	.409	85.0
5	**20**	.244	.276	50.7	.323	.354	70.5	.421	.449	100
2	**18**	.217	.244	38.1	.280	.307	52.7	.343	.370	70.5
3	**18**	.228	.260	47.4	.295	.327	63.9	.366	.394	84.0
4	**18**	.248	.280	57.3	.323	.354	76.7	.402	.429	100
5	**18**	.272	.299	67.0	.354	.386	90.5	.441	.472	120
Flame ratings		Horizontal	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2	

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 200°C

Silicone multiconductor cables

- ***Operating temp. -60°C to +200°C***
- ***300 V / 600 V / 1,000 V***
- *High flexibility*
- *Good resistance to thermal shock*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2- Extruded silicone rubber insulation
3- Extruded silicone outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

VW-1 Approved Style 4389
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Use: External or Internal wiring of appliances or electronic equipment
(External wiring only for version with 45 mils wall jacket)

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Brick red (*Consult us for other colors*)
Surface marking

Voltage		300 V			600 V			1,000 V (cUL 600 V)		
Jacket		Silicone								
		Wall 30 mils	Wall 45 mils		Wall 30 mils	Wall 45 mils		Wall 30 mils	Wall 45 mils	
UL		4476-S200								
cUL		AWM I A	AWM II A/B		AWM I A	AWM II A/B		AWM I A	AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	.154	.181	16.6	.217	.244	28.1	.217	.244	28.1
3	**26**	.161	.189	18.7	.228	.260	32.4	.228	.260	32.4
4	**26**	.173	.201	21.3	.248	.280	37.2	.248	.280	37.2
5	**26**	.185	.217	24.7	.272	.299	41.9	.272	.299	41.9
2	**24**	.169	.197	20.0	.224	.252	30.5	.224	.252	30.5
3	**24**	.177	.209	23.3	.236	.268	35.3	.236	.268	35.3
4	**24**	.189	.221	26.5	.256	.287	40.7	.256	.287	40.7
5	**24**	.209	.236	30.3	.284	.311	46.8	.284	.311	46.8
2	**22**	.185	.213	24.5	.248	.276	37.6	.248	.276	37.6
3	**22**	.193	.224	28.8	.264	.291	43.5	.264	.291	43.5
4	**22**	.209	.240	33.8	.287	.315	51.0	.287	.315	51.0
5	**22**	.228	.260	39.6	.315	.343	59.4	.315	.343	59.4
2	**20**	.201	.228	30.6	.264	.291	44.4	.264	.291	44.4
3	**20**	.213	.240	36.6	.280	.311	53.2	.280	.311	53.2
4	**20**	.228	.260	44.2	.303	.335	62.5	.303	.335	62.5
5	**20**	.248	.280	51.6	.335	.366	73.9	.335	.366	73.9
2	**18**	.217	.244	38.1	.272	.299	50.7	.280	.307	52.7
3	**18**	.228	.260	47.4	.287	.319	61.8	.295	.327	63.9
4	**18**	.248	.280	57.3	.315	.343	73.3	.323	.354	76.7
5	**18**	.272	.299	67.0	.347	.374	86.9	.354	.386	90.5
Flame ratings		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2	

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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SILICABLE® 150°C

Fluoropolymer insulated & Silicone jacketed multiconductor cables

- ***Operating temp. -60°C to +150°C***
- ***300 V / 600 V / 1,000 V***
- *High flexibility*
- *Good resistance to thermal shock*
- *Smaller size than insulated silicone version*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2- Extruded fluoropolymer insulation
3- Extruded silicone outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

VW-1 Approved Style 4389
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Use: External or Internal wiring of appliances or electronic equipment
(External wiring only for version with 45 mils wall jacket)

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Brick red (*Consult us for other colors*)
Surface marking

Voltage		300 V			600 V			1,000 V (cUL 600 V)		
Jacket		Silicone								
		Wall 30 mils	Wall 45 mils		Wall 30 mils			Wall 30 mils	Wall 45 mils	
Insulation		Standard wall ETFE			Thin wall ETFE	Standard wall ETFE		Standard wall ETFE		
UL		4476-E150								
cUL		AWM I A	AWM II A/B		AWM I A	AWM I A		AWM I A	AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	.118	.150	11.6	-	.142	11.1	.181	.209	22.1
3	**26**	.122	.158	13.6	-	.150	13.1	.189	.221	25.7
4	**26**	.130	.165	15.5	-	.158	15.0	.205	.236	29.8
5	**26**	.138	.173	17.5	-	.169	17.4	.224	.252	33.8
2	**24**	.130	.158	14.1	.130	.150	12.9	.189	.217	24.5
3	**24**	.134	.165	16.6	.134	.158	15.4	.197	.228	28.5
4	**24**	.146	.173	19.0	.142	.169	18.3	.217	.244	33.1
5	**24**	.154	.185	22.0	.154	.181	21.2	.232	.264	38.5
2	**22**	.142	.169	17.6	.142	.161	16.3	.201	.228	28.6
3	**22**	.150	.177	21.0	.146	.169	19.7	.213	.240	33.7
4	**22**	.158	.189	25.0	.158	.181	23.6	.228	.260	40.2
5	**22**	.169	.201	29.0	.169	.197	28.2	.248	.280	46.7
2	**20**	.161	.189	23.8	.165	.177	21.7	.217	.244	35.1
3	**20**	.169	.201	29.7	.173	.185	26.9	.228	.260	42.9
4	**20**	.181	.213	35.5	.185	.201	33.1	.248	.280	51.2
5	**20**	.197	.228	41.9	.201	.217	39.3	.272	.299	59.4
2	**18**	.181	.209	31.6	.181	.201	30.1	.236	.264	43.9
3	**18**	.189	.221	39.9	.189	.213	38.4	.248	.280	54.2
4	**18**	.205	.236	48.8	.205	.228	47.1	.272	.303	66.1
5	**18**	.224	.252	57.5	.224	.248	56.4	.299	.327	77.7
Flame ratings		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2	

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICABLE® 200°C

Fluoropolymer insulated & Silicone jacketed multiconductor cables

- ***Operating temp. -60°C to +200°C***
- ***300 V / 600 V / 1,000 V***
- *High flexibility*
- *Good resistance to thermal shock*
- *Smaller size than insulated silicone version*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2- Extruded fluoropolymer insulation
3- Extruded silicone outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

VW-1 Approved Style 4389
*please consult our dedicated datasheet: **SILICABLE® VW-1***

Use: External or Internal wiring of appliances or electronic equipment
(External wiring only for version with 45 mils wall jacket)

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Brick red (*Consult us for other colors*)
Surface marking

Voltage		300 V			600 V			1,000 V (cUL 600 V)		
Jacket		Silicone								
		Wall 30 mils	Wall 45 mils		Wall 30 mils			Wall 30 mils	Wall 45 mils	
W		Thin wall ETFE			Thin wall ETFE	Standard wall FEP		Standard wall FEP		
UL		4476-F200								
cUL		AWM I A	AWM II A/B		AWM I A	AWM I A		AWM I A	AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	.122	.150	12.3	.138	.154	10.8	.177	.205	22.0
3	**26**	.126	.158	14.4	.142	.161	12.4	.185	.217	25.8
4	**26**	.134	.165	16.4	.154	.173	14.9	.201	.232	30.2
5	**26**	.142	.173	18.4	.165	.185	17.4	.217	.248	34.5
2	**24**	.130	.158	14.3	.146	.165	12.6	.189	.217	25.3
3	**24**	.134	.165	16.8	.154	.173	15.2	.197	.228	29.7
4	**24**	.146	.173	19.3	.161	.185	17.7	.217	.244	34.7
5	**24**	.154	.185	22.4	.177	.201	21.3	.232	.264	40.5
2	**22**	.142	.169	17.8	.158	.173	16.0	.201	.228	29.5
3	**22**	.150	.177	21.3	.165	.181	19.6	.213	.240	35.0
4	**22**	.158	.189	25.4	.177	.197	23.6	.228	.260	42.0
5	**22**	.169	.201	29.5	.193	.213	28.3	.248	.280	48.9
2	**20**	.161	.189	24.1	.177	.193	22.2	.217	.244	36.1
3	**20**	.169	.201	30.1	.185	.205	27.5	.228	.260	44.3
4	**20**	.181	.213	36.0	.201	.221	34.0	.248	.280	53.2
5	**20**	.197	.228	42.5	.217	.240	40.4	.272	.299	61.8
2	**18**	.181	.209	32.0	.201	.217	30.6	.236	.264	45.0
3	**18**	.189	.221	40.4	.213	.228	39.2	.248	.280	55.9
4	**18**	.205	.236	49.4	.228	.248	48.2	.272	.303	68.4
5	**18**	.224	.252	58.3	.248	.272	57.9	.299	.327	80.6
Flame ratings		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2		Horizontal FT2	Cable flame FT1, FT2	

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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SILICABLE® VW-1

Silicone multiconductor cables

- ***Operating temp. -60°C to +150°C & +200°C***
- ***600 V***
- *High flexibility*
- *Good resistance to thermal shock*
- *Enhanced fire performance*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (for 200°C version, tin plated or bare copper strands > .015 in)
2- Extruded silicone or fluoropolymer insulation
3- Extruded silicone outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant

Use: External or Internal wiring of appliances or electronic equipment

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: Brick red (*Consult us for other colors*)
Surface marking

Voltage		600 V									
Temperature		150°C					200°C				
Jacket		Silicone - Wall 45 mils									
Insulation		ETFE			Silicone		FEP			Silicone	
		Thin wall	Standard wall				Thin wall	Standard wall			
cUL		4389-E150-VW-1			4389-S150-VW-1		4389-F200-VW-1			4389-S200-VW-1	
cUL		AWM II A/B					AWM II A/B				
Nb of Singles	AWG Size	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	-	.169	15.1	.244	28.1	.165	.181	17.5	.244	28.1
3	**26**	-	.177	17.4	.260	32.4	.173	.189	20.1	.260	32.4
4	**26**	-	.189	20.2	.280	37.2	.185	.201	23.2	.280	37.2
5	**26**	-	.201	22.9	.299	41.9	.193	.217	27.0	.299	41.9
2	**24**	.158	.177	17.2	.260	32.2	.173	.193	20.4	.252	30.5
3	**24**	.165	.185	19.9	.276	37.1	.181	.205	24.3	.268	35.3
4	**24**	.173	.197	23.2	.295	42.5	.193	.217	28.0	.287	40.7
5	**24**	.185	.209	26.4	.323	49.9	.205	.232	32.5	.311	46.8
2	**22**	.169	.189	20.9	.272	36.6	.185	.201	23.6	.276	37.6
3	**22**	.177	.201	25.3	.287	42.5	.193	.213	28.4	.291	43.5
4	**22**	.189	.213	29.6	.311	50.0	.209	.224	33.0	.315	51.0
5	**22**	.201	.228	34.5	.339	58.4	.221	.244	39.3	.343	59.4
2	**20**	.193	.205	26.8	.284	42.5	.205	.221	30.5	.291	44.4
3	**20**	.205	.217	32.9	.299	50.1	.217	.232	37.3	.311	53.2
4	**20**	.217	.232	39.6	.327	60.4	.232	.248	44.5	.335	62.5
5	**20**	.232	.248	46.3	.354	70.5	.248	.268	52.6	.366	73.9
2	**18**	.209	.228	35.7	.307	52.7	.228	.244	40.0	.299	50.7
3	**18**	.221	.240	44.3	.327	63.9	.240	.260	50.3	.319	61.8
4	**18**	.236	.260	54.4	.354	76.7	.260	.280	61.1	.343	73.3
5	**18**	.252	.280	64.4	.386	90.5	.280	.299	71.7	.374	86.9
Flame ratings		Horizontal, VW-1 / FT1, FT2									

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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SILIFLON® 150°C

Fluoropolymer multiconductor cables

- ***Operating temp. -90°C to +150°C***
- ***300 V / 600 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid tin plated or bare copper conductor (other material available on request)
2 - Extruded fluoropolymer insulation
3 - Extruded fluoropolymer outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410
- RoHS Compliant

Use: External or internal wiring of appliances or electronic equipment

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: White
Surface marking

Voltage		300 V				600 V	
Jacket		Wall 10 mils		Wall 20 mils		Wall 15 mils	
Insulation		Thin wall ETFE		Thin wall ETFE		Thin wall ETFE	
UL		20221		20905		20222	
cUL		AWM II A/B				AWM II A/B	
Nb of Singles	AWG Size	Nominal OD (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)
2	**26**	.079	5.0	.098	7.1	.114	8.8
3	**26**	.083	6.1	.102	8.3	.118	10.1
4	**26**	.091	7.5	.110	10.0	.130	12.3
5	**26**	.102	9.4	.118	11.6	.142	14.5
2	**24**	.091	6.8	.110	9.3	.122	10.6
3	**24**	.095	8.4	.118	11.4	.126	12.2
4	**24**	.110	11.2	.126	13.5	.138	14.9
5	**24**	.118	13.1	.138	16.2	.154	18.2
2	**22**	.106	10.2	.122	12.4	.134	13.9
3	**22**	.114	13.2	.130	15.5	.142	17.0
4	**22**	.122	15.9	.142	19.1	.154	20.6
5	**22**	.134	19.2	.154	22.7	.169	24.9
2	**20**	.126	15.6	.142	18.2	.150	19.2
3	**20**	.134	20.1	.150	22.9	.158	23.9
4	**20**	.154	26.5	.165	28.8	.173	29.9
5	**20**	.169	32.2	.177	33.9	.193	36.6
2	**18**	.154	24.0	.161	25.5	.173	27.4
3	**18**	.161	30.8	.173	33.2	.185	35.2
4	**18**	.177	38.8	.189	41.5	.201	43.4
5	**18**	.197	47.6	.205	49.5	.224	53.4
Flame ratings		Horizontal / FT1, FT2				Horizontal / FT1, FT2	

Other number of singles and AWG sizes on requestOther style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILIFLON® 200°C

Fluoropolymer multiconductor cables

- ***Operating temp. -90°C to +200°C***
- ***300 V / 600 V***
- *Excellent chemical resistance*
- *Excellent mechanical strength*

Construction
1 - Stranded or solid tin, silver, nickel plated or bare copper conductor (tin plated or bare copper strands > .015 in)
2 - Extruded fluoropolymer insulation
3- Extruded fluoropolymer outer jacket
Optional shield: consult us

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410
- RoHS Compliant

Use: External or internal wiring of appliances or electronic equipment

Standard products
Color coding = Insulated singles as per NEC NFPA 70
Outer jacket standard color: White
Surface marking

Voltage		300 V							
Jacket		Wall 10 mils				Wall 20 mils			
Insulation		Thin wall ETFE		FEP Standard wall		Thin wall ETFE		FEP Standard wall	
UL		20711				2749			
cUL		AWM II A/B							
Nb of Singles	AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	.083	6.0	.098	7.8	.102	8.7	.118	10.9
3	**26**	.087	7.1	.110	10.2	.106	9.9	.126	13.0
4	**26**	.095	8.7	.118	11.9	.114	11.7	.134	14.8
5	**26**	.106	10.8	.130	14.2	.122	13.4	.146	17.4
2	**24**	.091	7.6	.110	10.2	.110	10.5	.126	12.9
3	**24**	.095	9.1	.118	12.5	.114	12.1	.134	15.4
4	**24**	.106	11.7	.130	15.2	.122	14.3	.146	18.4
5	**24**	.118	14.2	.142	18.0	.134	17.1	.158	21.4
2	**22**	.106	11.2	.122	13.5	.122	13.9	.138	16.5
3	**22**	.110	13.6	.130	16.7	.126	16.3	.146	19.8
4	**22**	.122	17.1	.150	22.0	.138	20.1	.158	23.8
5	**22**	.134	20.5	.165	26.5	.150	23.8	.173	28.5
2	**20**	.126	16.9	.142	19.6	.142	20.0	.158	23.0
3	**20**	.134	21.5	.158	26.1	.150	24.8	.169	28.9
4	**20**	.154	28.3	.173	32.3	.161	30.1	.181	34.4
5	**20**	.169	34.3	.193	39.5	.177	36.3	.201	41.8
2	**18**	.154	26.0	.165	28.3	.161	27.8	.173	30.3
3	**18**	.161	32.7	.177	36.2	.169	34.7	.185	38.3
4	**18**	.177	41.0	.193	44.6	.185	43.1	.201	46.9
5	**18**	.193	49.0	.213	53.9	.205	52.5	.221	56.4
Flame ratings		Horizontal / FT1, FT2							

Other number of singles and AWG sizes on requestOther style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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FTUS-1226a

Voltage		600 V							
Jacket		Wall 12 mils				Wall 20 mils			
Insulation		Thin wall ETFE		FEP Standard wall		Thin wall ETFE		FEP Standard wall	
UL		20710				2750			
cUL		AWM II A/B							
Nb of Singles	AWG Size	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	**26**	.102	8.4	.118	10.6	.118	10.9	.134	13.5
3	**26**	.106	9.6	.126	12.6	.122	12.2	.142	15.7
4	**26**	.118	11.9	.138	15.0	.134	14.8	.154	18.4
5	**26**	.130	14.2	.158	19.1	.146	17.4	.169	22.0
2	**24**	.110	10.2	.130	13.2	.126	12.9	.146	16.4
3	**24**	.114	11.8	.138	15.6	.130	14.6	.154	19.0
4	**24**	.126	14.5	.161	21.2	.142	17.6	.169	23.1
5	**24**	.138	17.1	.173	24.1	.154	20.5	.185	27.2
2	**22**	.122	13.5	.138	16.1	.138	16.5	.154	19.4
3	**22**	.130	16.7	.154	21.1	.146	19.8	.165	23.9
4	**22**	.150	22.0	.169	25.9	.158	23.8	.177	27.9
5	**22**	.161	25.6	.185	30.6	.169	27.5	.193	32.8
2	**20**	.142	19.6	.165	24.4	.158	23.0	.173	26.4
3	**20**	.158	26.1	.177	30.3	.165	27.9	.185	32.4
4	**20**	.173	32.3	.193	36.8	.181	34.4	.201	39.0
5	**20**	.189	38.4	.213	44.1	.197	40.6	.221	46.6
2	**18**	.173	30.0	.189	33.6	.181	32.1	.197	35.8
3	**18**	.181	36.9	.201	41.8	.193	40.2	.209	44.1
4	**18**	.201	46.5	.221	51.6	.209	48.8	.228	54.2
5	**18**	.221	55.8	.252	65.2	.228	58.4	.252	65.2
2	**16**	.189	38.5	.205	42.4	.197	40.7	.213	44.8
3	**16**	.201	49.0	.221	54.4	.209	51.4	.228	57.0
4	**16**	.221	61.2	.248	69.6	.228	63.8	.248	69.6
5	**16**	.252	77.3	.272	83.3	.252	77.3	.276	84.9
2	**14**	.221	57.6	.244	64.9	.228	60.2	.244	64.9
3	**14**	.240	76.7	.260	83.1	.244	78.1	.260	83.1
4	**14**	.264	96.4	.287	105	.268	97.9	.287	105
5	**14**	.291	117	.323	129	.295	119	.323	129
Flame ratings		Horizontal / FT1, FT2							

Other number of singles and AWG sizes on requestOther style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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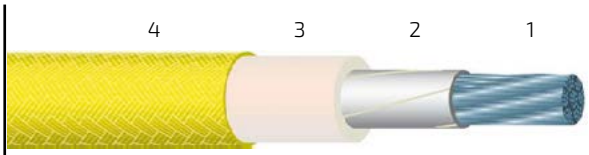
HIGHLY FLEXIBLE MEDIUM VOLTAGE CABLES

SILICOUL® 1.1 kV

- ***1,100 V***
- ***Operating temp. -60°C to +180°C***
- ***High flexibility (finely stranded conductor)***
- *Good resistance to thermal shock*
- *Excellent mechanical strength*

Construction
1 - Stranded tin plated copper conductor
(AWG sizes available on request)
2- Separating tape
3 - Extruded silicone rubber insulation
4 - Silicone coated reinforcing synthetic braid

Approvals - standards
• Compliance UL/cUL file E101965
UL approval (180 °C / 1,100 V)
cUL approval (CSA 180 °C / 1,000 V)
• RoHS Compliant



Use: Appliance wiring material, lead wire or cable for engines, electrical motors and other rotating and static machines

Standard products
Standard insulation color: white
Standard reinforcing braid color: yellow

Other options available
*please consult our dedicated datasheet: **SILICOUL® OPTIONS***

Voltage		1,100 V			
UL		3661			
cUL		AWM I A/B			
Nominal cross-section (sq.mm)	Approximate AWG Size	Nominal stranding (Nb x mm)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
1.5	16	7 x .52	.150	3.719	15.9
2.5	14	19 x .40	.169	2.304	22.8
4	12	32 x .40	.193	1.433	32.9
6	10	48 x .40	.236	.948	47.4
10	8	80 x .40	.284	.594	78.6
16	6	126 x .40	.339	.378	116
25	4	196 x .40	.409	.242	180
35	2	276 x .40	.469	.172	241
50	1	396 x .40	.555	.120	345
70	2/0	360 x .50	.626	.084	463
95	3/0	485 x .50	.717	.064	609
120	4/0	608 x .50	.815	.050	784
150	300 MCM	756 x .50	.913	.04	959
185	350 MCM	944 x .50	.992	.033	1,219
240	500 MCM	1,221 x .50	1.150	.025	1,642
300	600 MCM	1,525 x .50	1.244	.020	2,025
400	750 MCM	2,037 x .50	1.362	.015	2,532
Flame ratings		Horizontal / FT1, FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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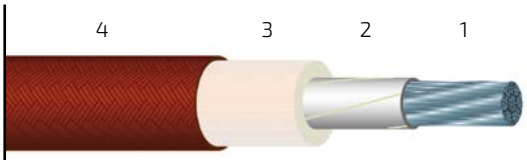
SILICOUL® 4.2 kV

- ***4,200 V***
- ***Operating temp. -60°C to +180°C***
- ***High flexibility (finely stranded conductor)***
- *Good resistance to thermal shock*
- *Excellent mechanical strength*

Construction
1- Stranded tin plated copper conductor
(other AWG sizes available on request)
2- Separating tape
3- Extruded silicone rubber insulation
4- Silicone coated reinforcing synthetic braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant



Use: Appliance wiring material, lead wire or cable for engines, electrical motors and other rotating and static machines

Standard products
Standard insulation color: white
Standard reinforcing braid color: brown

Other options available
*please consult our dedicated datasheet: **SILICOUL® OPTIONS***

Voltage		4,200 V			
UL		3662			
cUL		AWM I A/B			
Nominal cross-section (sq.mm)	Approximate AWG Size	Nominal stranding (Nb x mm)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
2.5	14	19 x .40	.248	2.304	34.7
4	12	32 x .40	.272	1.433	46.2
6	10	48 x .40	.307	.948	62.6
10	8	80 x .40	.354	.594	96.1
16	6	126 x .40	.402	.378	134
25	4	196 x .40	.465	.242	198
35	2	276 x .40	.520	.172	263
50	1	396 x .40	.602	.120	369
70	2/0	360 x .50	.669	.084	486
95	3/0	485 x .50	.795	.064	648
120	4/0	608 x .50	.874	.050	824
150	300 MCM	756 x .50	.961	.04	1,001
185	350 MCM	944 x .50	1.016	.033	1,244
240	500 MCM	1,221 x .50	1.165	.025	1,657
300	600 MCM	1,525 x .50	1.252	.020	2,033
400	750 MCM	2,037 x .50	1.406	.015	2,580
Flame ratings		Horizontal / FT1, FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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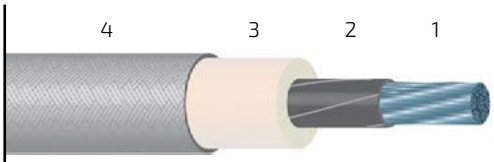
SILICOUL® 7.2 kV

- ***7,200 V***
- ***Operating temp. -60°C to +180°C***
- ***High flexibility (finely stranded conductor)***
- *Good resistance to thermal shock*
- *Excellent mechanical strength*

Construction
1- Stranded tin plated copper conductor
(other AWG sizes available on request)
2- Separating tape
3- Extruded silicone rubber insulation
4- Silicone coated reinforcing synthetic braid

Approvals - standards
- Compliance UL/cUL file E101965
- RoHS Compliant



Use: Appliance wiring material, lead wire or cable for engines, electrical motors and other rotating and static machines

Standard products
Standard insulation color: white
Standard reinforcing braid color: grey

Other options available
*please consult our dedicated datasheet: **SILICOUL® OPTIONS***

Voltage		7,200 V			
UL		3663			
cUL		AWM I A/B			
Nominal cross-section (sq.mm)	Approximate AWG Size	Nominal stranding (Nb x mm)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
2.5	14	19 x .40	.303	2.304	45.8
4	12	32 x .40	.327	1.433	57.9
6	10	48 x .40	.362	.948	75.9
10	8	80 x .40	.409	.594	111
16	6	126 x .40	.457	.378	151
25	4	196 x .40	.516	.242	217
35	2	276 x .40	.575	.172	285
50	1	396 x .40	.658	.120	393
70	2/0	360 x .50	.721	.084	512
95	3/0	485 x .50	.823	.064	663
120	4/0	608 x .50	.906	.050	844
150	300 MCM	756 x .50	.996	.04	1,025
185	350 MCM	944 x .50	1.059	.033	1,276
240	500 MCM	1,221 x .50	1.209	.025	1,691
300	600 MCM	1,525 x .50	1.295	.020	2,071
400	750 MCM	2,037 x .50	1.465	.015	2,640
Flame ratings		Horizontal / FT1, FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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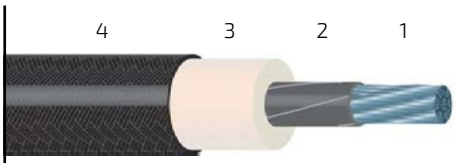
SILICOUL® 15 kV

- ***15,200 V***
- ***Operating temp. -60°C to +180°C***
- ***High flexibility (finely stranded conductor)***
- *Good resistance to thermal shock*
- *Excellent mechanical strength*

Construction
1- Stranded tin plated copper conductor
(other AWG sizes available on request)
2- Separating tape
3- Extruded silicone rubber insulation
4- Silicone coated reinforcing synthetic braid

Approvals - standards
- Compliance UL (180 °C / 15,000 V) file E101965
- Compliance cUL (CSA 200 °C / 15,000 V) as per GTO-15 and standard C22.2 N° 127 file E211350
- RoHS Compliant



Use: Appliance wiring material, lead wire or cable for engines, electrical motors and other rotating and static machines

Standard products
Standard insulation color: white
Standard reinforcing braid color: grey

Other options available
*please consult our dedicated datasheet: **SILICOUL® OPTIONS***

Voltage		15,000 V			
UL		3664			
cUL		AWM I A/B			
Nominal cross-section (sq.mm)	Approximate AWG Size	Nominal stranding (Nb x mm)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
2.5	14	19 x .40	.417	2.304	78.0
4	12	32 x .40	.433	1.433	88.7
6	10	48 x .40	.465	.948	108
10	8	80 x .40	.516	.594	149
16	6	126 x .40	.559	.378	190
25	4	196 x .40	.618	.242	262
35	2	276 x .40	.677	.172	333
50	1	396 x .40	.744	.120	438
70	2/0	360 x .50	.839	.084	572
95	3/0	485 x .50	.913	.064	719
120	4/0	608 x .50	.992	.050	902
150	300 MCM	756 x .50	1.098	.04	1,104
185	350 MCM	944 x .50	1.154	.033	1,352
240	500 MCM	1,221 x .50	1.303	.025	1,778
300	600 MCM	1,525 x .50	1.398	.020	2,172
400	750 MCM	2,037 x .50	1.559	.015	2,743
Flame ratings		Horizontal / FT1, FT2			

Other AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
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SILICOUL® OPTIONS

- ***Class H connection cable***
- *High flexibility (finely stranded conductor)*

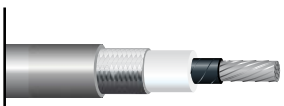
CHARACTERISTICS	SILICOUL® ALU FLEX	SILICOUL® DI	SILICOUL® PUR	SILICOUL® SCR
Short description	Version with aluminum conductor	Double insulation version	Polyurethane jacketed version	Shielded version
Operating voltage	Four versions 1.1 / 3.7 / 6.6 / 13.8 kV	Four versions 1.1 / 4.2 / 7.2 / 15 kV	Four versions 1.1 / 3.7 / 6.6 / 13.8 kV	Four versions 1.1 / 3.7 / 6.6 / 13.8 kV
Operating temperature	-60°C to +180°C	-60°C to +180°C	-60°C to +150°C	-60°C to +180°C (+150°C for shielded version with PUR jacket)
Fire performance	*Flame retardant*	*Flame retardant*	*Flame retardant*	*Flame retardant*
Compliance UL / cUL	-	Yes	-	-
CONSTRUCTIONS	**SILICOUL® ALU FLEX**	**SILICOUL® DI**	**SILICOUL® PUR**	**SILICOUL® SCR**
Conductor	Stranded aluminum conductor	*Stranded tin plated copper conductor (Class 5 according to IEC 60228)*		
Separating tape	*Yes*			
Extruded Silicone insulation	Yes	Double	Yes	Yes
Electrical shielding	-	-	-	Tin plated copper braid
Silicone coated reinforcing synthetic braid	Yes	-	Optional	Yes
Extruded PUR jacket	-	-	Yes	-

EXAMPLES OF PRODUCTS

SILICOUL® ALU FLEX
13.7 kV 150 mm²

SILICOUL® DI
15 kV 50 mm² Style 3661

SILICOUL® PUR
1.1 kV 16 mm²



SILICOUL® SCR
6.6 kV 300 mm²

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HIGHLY FLEXIBLE INSTRUMENTATION & CONTROL CABLES

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HIFLEX® CONTROL GS 600 105°C

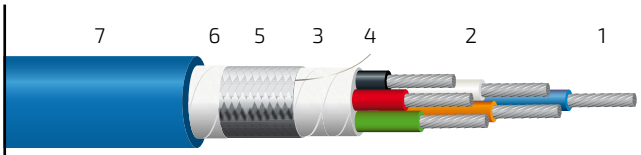
General shielded

- ***600 V***
- ***Operating temp. -50°C to +105°C***
- ***High flexibility*** *(>11 millions cycles in cable carrier)*
- *Excellent mechanical strength*
- *Excellent chemical & UV resistance*
- *Enhanced fire performance*

Construction
1- Stranded tin plated copper conductor
2- Extruded fluoropolymer insulation
3- Fluoropolymer tape
4- Tinned copper drain wire
5- Tinned copper braid
6- Separating tape
7- Polyurethane jacket

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410
- RoHS Compliant

Options
Unshielded version 105°
CTPE jacketed / TPE insulation version 90°C
please contact us



Use: External interconnection of electronic equipment

Standard products
Color coding = ICEA Method 1 Table E-1 (formerly K-1)
Outer jacket standard color: Blue (*Consult us for other colors*)
Surface marking

UL		20952				
cUL		AWM II A/B				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Drain wire (AWG)	Nominal OD (in)	Approx. linear weight (lbs/mft)
4	24	19 x 36	.010	24	.225	32
6	24	19 x 36	.010	24	.255	41
9	24	19 x 36	.010	24	.300	51
6	20	26 x 34	.010	22	.290	68
9	20	26 x 34	.010	22	.360	89
12	20	26 x 34	.010	22	.375	110
18	20	26 x 34	.010	22	.430	148
26	20	26 x 34	.010	22	.500	196
2	18	41 x 34	.010	20	.250	50
3	18	41 x 34	.010	20	.265	54
4	18	41 x 34	.010	20	.280	58
6	18	41 x 34	.010	20	.320	88
9	18	41 x 34	.010	20	.400	110
12	18	41 x 34	.010	20	.415	145
18	18	41 x 34	.010	20	.485	210
3	16	65 x 34	.010	20	.290	85
5	16	65 x 34	.010	20	.360	110
9	16	65 x 34	.010	20	.435	158
12	16	65 x 34	.010	20	.465	185
19	16	65 x 34	.010	20	.575	286
25	16	65 x 34	.010	20	.640	360
31	16	65 x 34	.010	20	.655	412
10	14	105 x 34	.010	20	.515	260
Flame ratings		Cable Flame, VW-1 / FT1				

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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FTUS-2102a

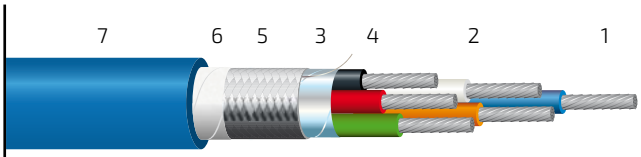
HIFLEX® CONTROL DS 300 125°C

Dual shielded

- ***300 V***
- ***Operating temp. -50°C to +125°C***
- ***High flexibility*** *(>11 millions cycles in cable carrier)*
- *Excellent mechanical strength*
- *Excellent chemical & UV resistance*
- *Enhanced fire performance*

Construction
1- Stranded tin plated copper conductor
2- Extruded TPE insulation
3- Aluminum / PET tape
4- Tinned copper drain wire
5- Tinned copper braid
6- Separating tape
7- TPE jacket

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant



Use: External interconnection of electronic equipment

Standard products
Color coding = ICEA Method 1 Table E-1 (formerly K-1)
Outer jacket standard color: Blue (*Consult us for other colors*)
Surface marking

UL		20237					
cUL		AWM II A/B					
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Double Shield thickness (in)	Jacket thickness (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	24	7 x 32	.015	.016	.030	.185	20.4
3	24	7 x 32	.015	.016	.030	.205	24.7
4	24	7 x 32	.015	.016	.030	.220	28.6
6	24	7 x 32	.015	.016	.030	.255	37.2
8	24	7 x 32	.015	.016	.030	.285	44.8
2	22	7 x 30	.015	.016	.030	.195	24.6
3	22	7 x 30	.015	.016	.030	.215	29.1
4	22	7 x 30	.015	.016	.030	.235	34.2
6	22	7 x 30	.015	.016	.030	.270	45.0
8	22	7 x 30	.015	.016	.030	.300	54.8
2	20	7 x 28	.015	.016	.030	.210	29.4
3	20	7 x 28	.015	.016	.030	.230	35.5
4	20	7 x 28	.015	.016	.030	.255	42.3
6	20	7 x 28	.015	.016	.030	.295	56.4
8	20	7 x 28	.015	.016	.030	.335	69.9
2	18	19 x 30	.015	.016	.030	.230	37.7
3	18	19 x 30	.015	.016	.030	.250	46.8
4	18	19 x 30	.015	.016	.030	.275	56.6
6	18	19 x 30	.015	.016	.030	.325	77.2
8	18	19 x 30	.015	.016	.030	.365	96.5
2	16	26 x 30	.015	.016	.030	.245	44.6
3	16	26 x 30	.015	.016	.030	.270	56.1
4	16	26 x 30	.015	.016	.030	.300	68.7
6	16	26 x 30	.015	.016	.030	.355	94.6
8	16	26 x 30	.015	.016	.030	.400	119.0
Flame ratings		Cable Flame					

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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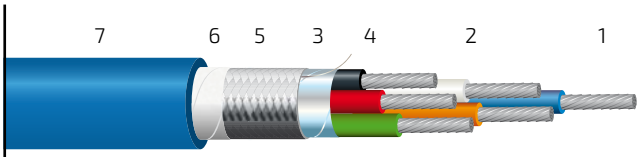
HIFLEX® CONTROL DS 600 125°C

Dual shielded

- ***600 V***
- ***Operating temp. -50°C to +125°C***
- ***High flexibility*** *(>4 millions cycles in cable carrier)*
- *Excellent mechanical strength*
- *Excellent chemical & UV resistance*
- *Enhanced fire performance*

Construction
1- Stranded tin plated copper conductor
2- Extruded TPE insulation
3- Aluminum / PET tape
4- Tinned copper drain wire
5- Tinned copper braid
6- Separating tape
7- TPE jacket

Approvals - standards
- Compliance UL/cUL file E93624
- RoHS Compliant



Use: External interconnection of electronic equipment

Standard products
Color coding = ICEA Method 1 Table E-1 (formerly K-1)
Outer jacket standard color: Blue (*Consult us for other colors*)
Surface marking

UL		20238					
cUL		AWM II A/B					
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Double Shield thickness (in)	Jacket thickness (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2	24	7 x 32	.030	.016	.045	.265	39.4
3	24	7 x 32	.030	.016	.045	.290	45.6
4	24	7 x 32	.030	.016	.045	.320	52.8
6	24	7 x 32	.030	.016	.045	.370	68.3
8	24	7 x 32	.030	.016	.045	.415	82.2
2	22	7 x 30	.030	.016	.045	.275	43.3
3	22	7 x 30	.030	.016	.045	.300	50.8
4	22	7 x 30	.030	.016	.045	.330	59.3
6	22	7 x 30	.030	.016	.045	.385	77.6
8	22	7 x 30	.030	.016	.045	.430	94.1
2	20	7 x 28	.030	.016	.045	.290	49
3	20	7 x 28	.030	.016	.045	.320	58.3
4	20	7 x 28	.030	.016	.045	.355	68.8
6	20	7 x 28	.030	.016	.045	.415	91.1
8	20	7 x 28	.030	.016	.045	.465	111.5
2	18	19 x 30	.030	.016	.045	.305	58.5
3	18	19 x 30	.030	.016	.045	.340	71.2
4	18	19 x 30	.030	.016	.045	.375	85
6	18	19 x 30	.030	.016	.045	.440	114.6
8	18	19 x 30	.030	.016	.045	.495	141.9
2	16	26 x 30	.030	.016	.045	.325	66.3
3	16	26 x 30	.030	.016	.045	.360	81.7
4	16	26 x 30	.030	.016	.045	.400	98.7
6	16	26 x 30	.030	.016	.045	.470	134.1
8	16	26 x 30	.030	.016	.045	.530	167.2
Flame ratings		Cable Flame					

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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FTUS-2104a

HIFLEX® INSTRUM. DS 600 105°C

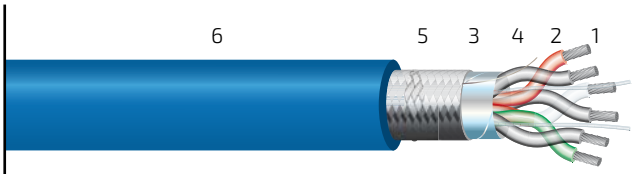
Dual shielded

- ***600 V***
- ***Operating temp. -50°C to +105°C***
- ***High flexibility*** *(>4 millions cycles in cable carrier)*
- *Excellent mechanical strength*
- *Excellent chemical & UV resistance*
- *Enhanced fire performance*

Construction
1- Stranded tin plated copper conductor
2- Extruded fluoropolymer insulation
3 - Aluminum / PET tape
4 - Tinned copper drain wire
5 - Tinned copper braid
6 - Polyurethane jacket

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410
- RoHS Compliant

Options
TPE jacketed / TPE insulation version 90°C
please contact us



Use: External interconnection of electronic equipment

Standard products
Color coding = ICEA Method 1 Table E-1 (formerly K-1)
Outer jacket standard color: Blue (*Consult us for other colors*)
Surface marking

UL		20952					
cUL		AWM II A/B					
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Drain wire (AWG)	Jacket thickness (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
4P	24	19 x 36	.010	26	.045	.305	53
2P	20	19 x 32	.010	22	.045	.335	66
3P	20	19 x 32	.010	22	.045	.335	70
6P	20	19 x 32	.010	22	.055	.450	130
9P	20	19 x 32	.010	22	.060	.530	172
12P	20	19 x 32	.010	22	.070	.600	225
2P	18	19 x 30	.010	20	.050	.380	298
3P	18	19 x 30	.010	20	.050	.380	240
4P	18	19 x 30	.010	20	.055	.420	175
6P	18	19 x 30	.010	20	.060	.510	110
9P	18	19 x 30	.010	20	.060	.610	93
12P	18	19 x 30	.010	20	.070	.670	88
1P	16	19 x 29	.010	20	.045	.265	56
1P	14	19 x 27	.010	20	.045	.300	70
Flame ratings		Cable Flame, VW-1 / FT1					

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
Further information concerning conducting metal: please consult our complete list of UL approved styles (pages 92 to 96)
UL approved only

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HIFLEX® INSTRUM. GS IS 300 105°C

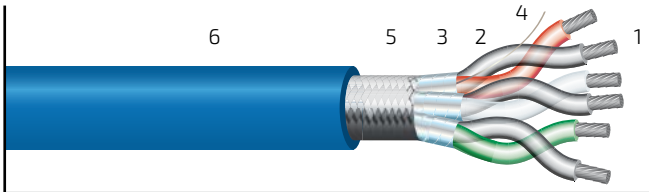
General & Individually shielded

- ***300 V***
- ***Operating temp. -50°C to +105°C***
- ***High flexibility*** *(>4 millions cycles in cable carrier)*
- *Excellent mechanical strength*
- *Excellent chemical & UV resistance*
- *Enhanced fire performance*

Construction
1- Stranded tin plated copper conductor
2- Extruded fluoropolymer insulation
3 - Aluminum / PET tape
4 - Tinned copper drain wires (for each twisted pair)
5 - Tinned copper braid
6 - Polyurethane jacket

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410
- RoHS Compliant

Options
TPE jacketed / TPE insulation version 90°C
please contact us



Use: External interconnection of electronic equipment

Standard products
Color coding = ICEA Method 1 Table E-1 (formerly K-1)
Outer jacket standard color: Blue (*Consult us for other colors*)
Surface marking

UL		20951					
cUL		AWM II A/B					
Nb of pairs	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Drain wire (AWG)	Jacket thickness (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2P	24	19 x 36	.006	26	.045	.265	33
3P	24	19 x 36	.006	26	.045	.275	42
4P	24	19 x 36	.006	26	.045	.300	48
6P	24	19 x 36	.006	26	.045	.330	64
7P	24	19 x 36	.006	26	.045	.330	68
9P	24	19 x 36	.006	26	.045	.400	97
2P	22	19 x 34	.006	24	.045	.275	43
3P	22	19 x 34	.006	24	.045	.300	52
4P	22	19 x 34	.006	24	.045	.315	62
6P	22	19 x 34	.006	24	.045	.370	86
7P	22	19 x 34	.006	24	.045	.370	92
9P	22	19 x 34	.006	24	.045	.450	138
2P	20	19 x 32	.006	22	.045	.305	53
3P	20	19 x 32	.006	22	.045	.315	66
4P	20	19 x 32	.006	22	.045	.350	83
6P	20	19 x 32	.006	22	.045	.410	117
7P	20	19 x 32	.006	22	.045	.410	125
9P	20	19 x 32	.006	22	.045	.500	189
Flame ratings		Cable Flame, VW-1 / FT1					

Other number of singles and AWG sizes on request
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HIFLEX® INSTRUM. DS IS 600 105°C

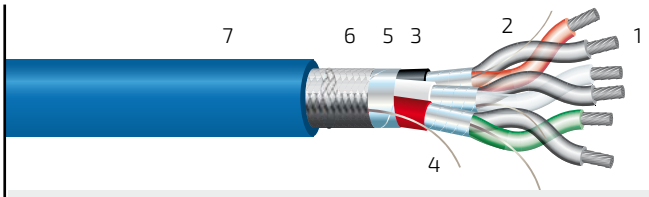
Dual & Individually shielded

- ***600 V***
- ***Operating temp. -50°C to +105°C***
- ***High flexibility*** *(>4 millions cycles in cable carrier)*
- *Excellent mechanical strength*
- *Excellent chemical & UV resistance*
- *Enhanced fire performance*

Construction
1- Stranded tin plated copper conductor
2- Extruded fluoropolymer insulation
3 - FEP coated
4 - Tinned copper drain wires (for each twisted pair & general)
5 - Aluminum / PET tape
6 - Tinned copper braid
7 - Polyurethane jacket

Approvals - standards
- Compliance UL/cUL file E93624
- Compliance CSA MC 177410
- RoHS Compliant

Options
TPE jacketed / TPE insulation version 90°C
please contact us



Use: External interconnection of electronic equipment

Standard products
Color coding = ICEA Method 1 Table E-1 (formerly K-1)
Outer jacket standard color: Blue (*Consult us for other colors*)
Surface marking

UL		20952					
cUL		AWM II A/B					
Nb of pairs	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Drain wire (AWG)	Jacket thickness (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
2P	24	19 x 36	.010	26	.045	.330	70
3P	24	19 x 36	.010	26	.050	.360	80
4P	24	19 x 36	.010	26	.055	.385	86
6P	24	19 x 36	.010	26	.060	.470	126
9P	24	19 x 36	.010	26	.065	.570	160
12P	24	19 x 36	.010	26	.070	.600	215
2P	20	19 x 32	.010	22	.050	.405	74
3P	20	19 x 32	.010	22	.050	.430	92
4P	20	19 x 32	.010	22	.055	.475	118
6P	20	19 x 32	.010	22	.060	.570	161
9P	20	19 x 32	.010	22	.065	.715	247
12P	20	19 x 32	.010	22	.075	.730	264
18P	20	19 x 32	.010	22	.080	.850	540
2P	18	19 x 30	.010	20	.060	.440	110
3P	18	19 x 30	.010	20	.060	.490	142
4P	18	19 x 30	.010	20	.065	.540	163
6P	18	19 x 30	.010	20	.075	.650	245
9P	18	19 x 30	.010	20	.080	.790	320
12P	18	19 x 30	.010	20	.080	.840	405
2P	16	19 x 29	.010	20	.055	.465	136
3P	16	19 x 29	.010	20	.055	.490	158
4P	16	19 x 29	.010	20	.060	.545	196
Flame ratings		Cable Flame, VW-1 / FT1					

Other number of singles and AWG sizes on request
Other style nos. available: please consult our complete list of UL approved styles (pages 92 to 96)
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MILITARY CABLES

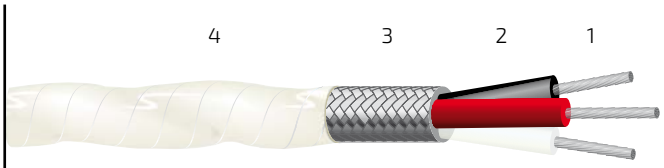
ELECTROAIR® MEEBA-APTFE (STJ)

PTFE jacket (wrapped) and PTFE insulation
Silver plated copper braid

- ***Operating temp. -90°C to +200°C***
- ***600 V***
- *Excellent mechanical strength*
- *Excellent chemical resistance*

Construction
1- Silver plated copper conductor
2- Fluoropolymer PTFE insulation
3- Silver plated copper braid
4- PTFE taped jacket

Approvals - standards
- Construction based on MIL W and NEMA standards
- Flame ratings FAR 25
- RoHS Compliant



Use: military and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences

Standard products
Color coding = according to ICEA Method 1 Table E-1

Options
- 250 V rating voltage – please contact us
- Unshielded version – please contact us

Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
2x	**26**	19 x 38	.126	38.4	13.7
4x	**26**	19 x 38	.140	38.4	18.7
3x	**24**	19 x 36	.134	24.3	18.1
7x	**24**	19 x 36	.173	24.3	31.7
3x	**22**	19 x 34	.139	15.1	21.5
4x	**22**	19 x 34	.166	15.1	27.7
2x	**20**	19 x 32	.140	9.2	21.2
8x	**20**	19 x 32	.238	9.2	60.9
2x	**18**	19 x 30	.180	5.8	29.9
3x	**16**	19 x 29	.215	4.5	46.3
4x	**16**	19 x 29	.240	4.5	57.9
6x	**16**	19 x 29	.282	4.5	80.3
3x	**14**	19 x 27	.246	2.9	62.6

Other number of singles and AWG sizes on request

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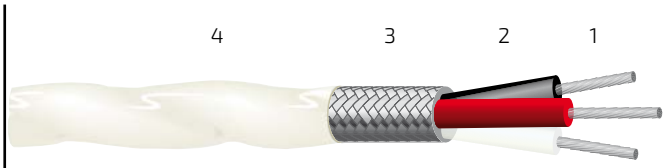
ELECTROAIR® M6BA-APTFE

FEP jacket and PTFE insulation
Silver plated copper braid

- ***Operating temp. -60°C to +200°C***
- ***600 V***
- *Excellent mechanical strength*
- *Excellent chemical resistance*

Construction
1- Silver plated copper conductor
2- Fluoropolymer PTFE insulation
3- Silver plated copper braid
4- Fluoropolymer FEP jacket

Approvals - standards
- Construction based on MIL W and NEMA standards
- Flame ratings FAR 25
- RoHS Compliant



Use: military and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences

Standard products
Color coding = according to ICEA Method 1 Table E-1

Options
- 250 V rating voltage – please contact us
- Unshielded version – please contact us

Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
2x	**26**	19 x 38	.115	38.4	12.4
3x	**26**	19 x 38	.125	38.4	15.1
4x	**26**	19 x 38	.137	38.4	18.1
2x	**24**	19 x 36	.123	24.3	14.4
3x	**24**	19 x 36	.141	24.3	18.6
4x	**24**	19 x 36	.152	24.3	22.1
2x	**22**	19 x 34	.136	15.1	17.7
3x	**22**	19 x 34	.150	15.1	22.5
4x	**22**	19 x 34	.170	15.1	27.9
2x	**20**	19 x 32	.147	9.2	21.9
3x	**20**	19 x 32	.178	9.2	29.9
4x	**20**	19 x 32	.190	9.2	35.9
2x	**18**	19 x 30	.170	5.8	29.7
3x	**18**	19 x 30	.185	5.8	38.4
4x	**18**	19 x 30	.215	5.8	49.0

Other number of singles and AWG sizes on request

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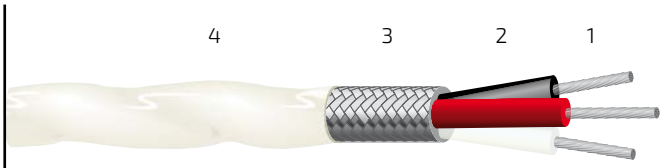
ELECTROAIR® M6BA-A6

FEP jacket and insulation
Silver plated copper braid

- ***Operating temp. -90°C to +200°C***
- ***600 V***
- *Excellent mechanical strength*
- *Excellent chemical resistance*

Construction
1- Silver plated copper conductor
2- Fluoropolymer FEP insulation
3- Silver plated copper braid
4- Fluoropolymer FEP jacket

Approvals - standards
- Construction based on MIL W and NEMA standards
- Flame ratings FAR 25
- RoHS Compliant



Use: military and electronic applications and all instrumentation uses requiring excellent resistance to high temperatures and to chemical influences

Standard products
Color coding = according to ICEA Method 1 Table E-1

Options
- 250 V rating voltage – please contact us
- Unshielded version – please contact us

Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Nominal OD (in)	Max DC Resistance at 20°C (Ω/mft)	Approx. linear weight (lbs/mft)
2x	**26**	19 x 38	.115	38.4	12.3
3x	**26**	19 x 38	.125	38.4	15.0
4x	**26**	19 x 38	.137	38.4	18.0
2x	**24**	19 x 36	.123	24.3	14.3
3x	**24**	19 x 36	.141	24.3	18.6
4x	**24**	19 x 36	.152	24.3	22.0
2x	**22**	19 x 34	.136	15.1	17.6
3x	**22**	19 x 34	.150	15.1	22.4
4x	**22**	19 x 34	.170	15.1	27.8
2x	**20**	19 x 32	.147	9.2	21.8
3x	**20**	19 x 32	.178	9.2	29.8
4x	**20**	19 x 32	.190	9.2	35.8
2x	**18**	19 x 30	.170	5.8	29.6
3x	**18**	19 x 30	.185	5.8	38.3
4x	**18**	19 x 30	.215	5.8	48.8

Other number of singles and AWG sizes on request

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THERMOCOUPLE & RTD SENSOR CABLES

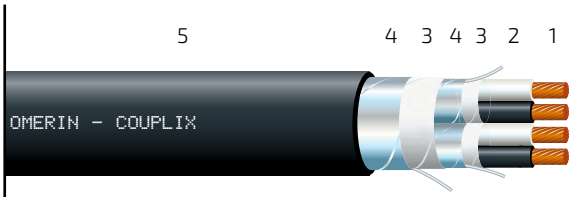
omerin

COUPLIX®
105°C / 200°C / 260°C
Thermocouple Extension wire

Construction
1 - Stranded or solid conductor extension: JX, KX, EX, TX
2 – Insulation (see table below)
3 - (optional) separating tape
4 - (optional) Individual or general electrical screen or braid + drain wire
5 – jacket (see table below)

Approvals - standards
• Conductors according to ANSI MC96.1
• RoHS Compliant

Options – please contact us
• Flat cable shape (parallel assembly)
•Overbraid in stainless steel
• Braided or taped shield



Use: Temperature sensors for industry and harness applications

Main products

Reference	Insulation	Jacket	Nb of pairs	AWG Size	Nominal stranding (Nb x AWG)	Nominal OD (in)	Approx. linear weight (lbs/mft)
COUPLIX® MY2-Y2 105°C	PVC	PVC	1P	22	7 x 30	.165	21
			2P	22	7 x 30	.227	31
			1P	18	7 x 26	.200	33
			2P	18	7 x 26	.285	51
			1P	16	7 x 24	.220	41
			2P	16	7 x 24	.320	62
COUPLIX® M6-6 200°C	FEP	FEP	1P	22	7 x 30	.130	15
			2P	22	7 x 30	.195	21
			1P	18	7 x 26	.170	26
			2P	18	7 x 26	.255	39
			1P	16	7 x 24	.196	34
			2P	16	7 x 24	.290	54
COUPLIX® M5-5 260°C	PFA	PFA	1P	22	7 x 30	.130	16
			2P	22	7 x 30	.195	22
			1P	18	7 x 26	.170	27
			2P	18	7 x 26	.255	40
			1P	16	7 x 24	.196	35
			2P	16	7 x 24	.290	55

Other number of singles and AWG sizes on request

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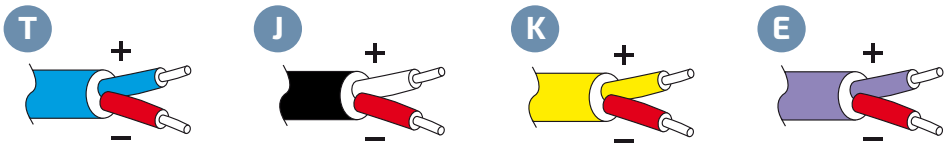
COUPLIX®
105°C / 200°C / 260°C
Thermocouple Extension wire

Available couple & their main characteristics

Type	Nature of metals + / -	Temperature range °C	Limits and recommendations	FEM at 0 °C µV	Seebeck coefficient at 0 °C µV/°C	Tolerance Extension Class 1	Tolerance Extension Class 2
T TX1 TX2	Copper + Cupro-Nickel -	-40°C to +350°C	Can be used in oxidizing, reducing or inert atmospheres and in a Vacuum. Rapid oxidisation above 370 °C. Used preferentially on couple J under negative temperatures due to better resistance to corrosion in a humid environment.	0.4	38.7	± 85 µV (± 1.5 °C)	± 140 µV (± 2.5 °C)
J JX1 JX2	Iron + Cupro-Nickel -	-40°C to +750°C	Can be used in oxidizing, reducing or inert atmospheres and in a Vacuum. Not recommended below 0 °C (risk of increased fragility). Rapid oxidization above 540 °C and in humid environment.	0.5	50.4	± 30 µV (± 0.5 °C)	± 60 µV (± 1.0 °C)
E EX1 EX2	Chromel + Cupro-Nickel -	-40°C to +900°C	Can be used in oxidizing or inert environment. Rapid oxidization above 540 °C and in sulphur-rich environment. Operation in Vacuum not recommended.	0.6	58.7	± 120 µV (± 1.5 °C)	± 200 µV (± 2.5 °C)
K KX1 KX2	Chromel + Nickel alloy -	-40°C to +1200°C	Can be used in oxidizing or inert environment. Unsuitable for use in sulphur-rich environment and unstable at high temperatures. Operation in Vacuum not recommended.	0.4	39.5	± 60 µV (± 1.5 °C)	± 100 µV (± 2.5 °C)

For other thermocouple type, please contact us



Product codification

Trademark of OMERIN	*Thermocouple type*		*OMERIN product reference*					*Composition*		*Stranding (conductor)*
COUPLIX®	KX1	-	BI	M	6	BE	-6	1P	22	7 / 30

Overbraid (mechanical protection)
Nothing = No Overbraid
BI = Overbraid in stainless steel
BG = Overbraid in galvanized steel

jacket material
Y2 = PVC 105°C
5 = PFA
6 = FEP
V = Fiberglass
VK = Polyimide / Fiberglass

Shielding
Nothing = No braid
BE = Tinned copper
BA = Silver copper
BAL = Alu/PET tape

Insulation material
Y2 = PVC 105°C
5 = PFA
6 = FEP
V = Fiberglass
VK = Polyimide / Fiberglass

2x / Number of pairs
2x = standard with 2 conductors
n p = thermocouple with n pairs

Conductor cross sections
in AWG

Number of strands and diameter of each strand (in AWG)
7 / 30
7 / 26
7 / 24
...

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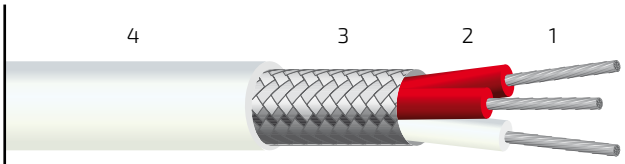
FTUS-4102a

SONDIX®

Construction
1- Stranded bare, tin-plated, nickel-plated or silver-plated copper conductor.
2- Insulation (see table below)
3- Optional electrical screen or braid
4- Jacket (see table below)

Approvals - standards
Cables and identification as per IEC 60 751
• RoHS Compliant

Options – please contact us
• Solid or extra-flexible conductors



Use: Wiring of platinum resistance temperature sensors

Standard products
• Color coding =
2 conductors: 1 red / 1 white or 1 red / 1 black
3 conductors: 1 red / 2 white or 1 red / 2 black
4 conductors: 2 red / 2 white or 2 red / 2 black
jacket colors: white

Product codification

Schema	SONDIX® reference	Insulation	Sheath	Operating temperature
	• MY2-Y2 • MC-CS	PVC 105 Silicone	PVC 105 Silicone	-30 à +105° C -60 à +200° C
	• M5-5 • M6-6 • M7-7	PFA FEP ETFE	PFA FEP ETFE	-190 à +260 °C -190 à +205 °C -90 à +155 °C
	• MC-FEP	FEP	Silicone	-60 à +200 °C
	• MV-PFA	PFA	Fibre de verre	-60 à +260 °C

Conductors, cross-sections and conductor stranding

Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)
2, 3, 4, 6 or 8	26	7 x 34
2, 3, 4, 6 or 8	26	19 x 38
2, 3, 4, 6 or 8	24	7 x 32
2, 3, 4, 6 or 8	24	19 x 36
2, 3 or 4	22	7 x 30
2, 3 or 4	22	19 x 34
2, 3 or 4	20	7 x 28
2, 3 or 4	20	19 x 32

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TRAY CABLES

SILIFLON® TC 200°C

FEP insulated & jacketed
Unshielded

- ***600 V***
- ***Operating temp. -90°C to +200°C***
- *Excellent chemical resistance*
- *Excellent heat and weather resistance*
- *Enhanced fire performance*

Construction
1- Stranded or solid nickel plated copper
2- Fluoropolymer FEP insulation
3- Fluoropolymer FEP jacket

Approvals - standards
- Compliance UL 1277 Type TC File E517270
- Compliance cUL & CSA (AWM I/II A/B)
- Compliance UL 66 or UL 83A (for inners)
- Compliance ANSI/NFPA 70 (NEC) Article 336
- NEC Articles 318 and 340
- NEC Article 725
- RoHS Compliant

Use: tray cable is a versatile cable approved for use in raceways and cable trays. They come in multi-conductors cables, and can be used for control and power

General precaution of use
- Can be used indoors to power parts of a home, office building or other structures. Other installations approved for building wire
- Can be used outdoors
- Will work even if exposed from conduit to equipment
- Must be supported every six feet
- Must meet exposed run requirement of the property it is on

Standard products
Color coding = ICEA/NEMA Method 1 E-1 (formerly K-1)

UL	Type TC 1277 (Inners UL 66)				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Jacket thickness (AWG)	Nominal OD (in)
2	18	7 x 26	.025	.045	.264
3	18	7 x 26	.025	.045	.278
4	18	7 x 26	.025	.045	.305
5	18	7 x 26	.025	.045	.325
7	18	7 x 26	.025	.045	.351
12	18	7 x 26	.025	.045	.453
19	18	7 x 26	.025	.060	.555
37	18	7 x 26	.025	.060	.729
2	16	7 x 24	.025	.045	.288
3	16	7 x 24	.025	.045	.304
4	16	7 x 24	.025	.045	.335
5	16	7 x 24	.025	.045	.358
7	16	7 x 24	.025	.045	.388
12	16	7 x 24	.025	.045	.504
19	16	7 x 24	.025	.060	.616
37	16	7 x 24	.025	.060	.814

Flame ratings	VW-1, IEEE 383, FT4 / IEEE 1202

Other number of singles and AWG sizes on request
Other stranding on request (solid or other stranded composition)

UL	Type TC 1277 (Inners UL 83A)				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Jacket thickness (AWG)	Nominal OD (in)
2	14	105 x 34	.020	.045	.330
3	14	105 x 34	.020	.045	.349
4	14	105 x 34	.020	.045	.387
5	14	105 x 34	.020	.045	.414
7	14	105 x 34	.020	.045	.450
12	14	105 x 34	.020	.060	.621
19	14	105 x 34	.020	.060	.720
37	14	105 x 34	.020	.080	1.000
2	12	65 x 30	.020	.045	.354
3	12	65 x 30	.020	.045	.375
4	12	65 x 30	.020	.045	.416
5	12	65 x 30	.020	.045	.447
7	12	65 x 30	.020	.045	.486
2	10	105 x 30	.020	.045	.430
3	10	105 x 30	.020	.045	.457
4	10	105 x 30	.020	.045	.510
5	10	105 x 30	.020	.060	.579
2	8	133 x 29	.030	.060	.580
3	8	133 x 29	.030	.060	.617
4	8	133 x 29	.030	.060	.689
5	8	133 x 29	.030	.060	.742
2	6	133 x 27	.030	.060	.646
3	6	133 x 27	.030	.060	.688
4	6	133 x 27	.030	.060	.770
5	6	133 x 27	.030	.080	.870

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SILIFLON® TC 200°C GS

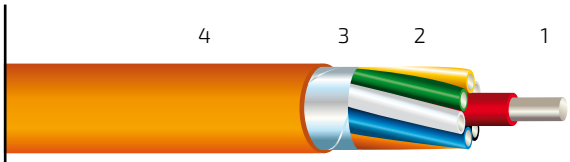
FEP insulated & jacketed
General shielded

- ***600 V***
- ***Operating temp. -90°C to +200°C***
- *Excellent chemical resistance*
- *Excellent heat and weather resistance*
- *Enhanced fire performance*

Construction
1- Stranded or solid nickel plated copper
2- Fluoropolymer FEP insulation
3- General shielding (braid, optional drain wire)
4- Fluoropolymer FEP jacket

Approvals - standards
- Compliance UL 1277 Type TC File E517270
- Compliance cUL & CSA (AWM I/II A/B)
- Compliance UL 66 or UL 83A (for inners)
- Compliance ANSI/NFPA 70 (NEC) Article 336
- NEC Articles 318 and 340
- NEC Article 725
- RoHS Compliant

Options
General shielding: in tin-plated copper braid



Use: tray cable is a versatile cable approved for use in raceways and cable trays. They come in multi-conductors cables, and can be used for control and power

General precaution of use
- Can be used indoors to power parts of a home, office building or other structures. Other installations approved for building wire
- Can be used outdoors
- Will work even if exposed from conduit to equipment
- Must be supported every six feet
- Must meet exposed run requirement of the property it is on

Standard products
Color coding = ICEA/NEMA Method 1 E-1 (formerly K-1)

UL	Type TC 1277 (Inners UL 66)				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Jacket thickness (AWG)	Nominal OD (in)
2	18	7 x 26	.025	.045	.284
3	18	7 x 26	.025	.045	.298
4	18	7 x 26	.025	.045	.325
5	18	7 x 26	.025	.045	.345
7	18	7 x 26	.025	.045	.371
12	18	7 x 26	.025	.045	.473
19	18	7 x 26	.025	.060	.575
37	18	7 x 26	.025	.060	.749
2	16	7 x 24	.025	.045	.308
3	16	7 x 24	.025	.045	.324
4	16	7 x 24	.025	.045	.355
5	16	7 x 24	.025	.045	.378
7	16	7 x 24	.025	.045	.408
12	16	7 x 24	.025	.045	.524
19	16	7 x 24	.025	.060	.636
37	16	7 x 24	.025	.060	.834

Flame ratings	VW-1, IEEE 383, FT4 / IEEE 1202

Other number of singles and AWG sizes on request
Other stranding on request (solid or other stranded composition)

UL	Type TC 1277 (Inners UL 83A)				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Jacket thickness (AWG)	Nominal OD (in)
2	14	105 x 34	.020	.045	.350
3	14	105 x 34	.020	.045	.369
4	14	105 x 34	.020	.045	.407
5	14	105 x 34	.020	.045	.434
7	14	105 x 34	.020	.045	.470
12	14	105 x 34	.020	.060	.641
19	14	105 x 34	.020	.060	.740
37	14	105 x 34	.020	.080	1.020
2	12	65 x 30	.020	.045	.374
3	12	65 x 30	.020	.045	.395
4	12	65 x 30	.020	.045	.436
5	12	65 x 30	.020	.045	.467
7	12	65 x 30	.020	.045	.506
2	10	105 x 30	.020	.045	.450
3	10	105 x 30	.020	.045	.477
4	10	105 x 30	.020	.045	.530
5	10	105 x 30	.020	.060	.599
2	8	133 x 29	.030	.060	.600
3	8	133 x 29	.030	.060	.637
4	8	133 x 29	.030	.060	.709
5	8	133 x 29	.030	.060	.762
2	6	133 x 27	.030	.060	.666
3	6	133 x 27	.030	.060	.708
4	6	133 x 27	.030	.060	.790
5	6	133 x 27	.030	.080	.890

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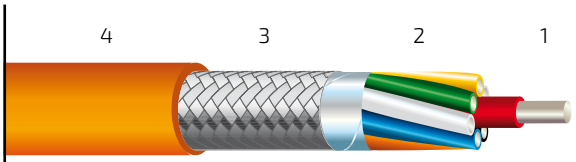
SILIFLON® TC 200°C DS

FEP insulated & jacketed
Dual shielded

- ***600 V***
- ***Operating temp. -90°C to +200°C***
- *Excellent chemical resistance*
- *Excellent heat and weather resistance*
- *Enhanced fire performance*

Construction
1- Stranded or solid nickel plated copper
2- Fluoropolymer FEP insulation
3- Dual shielding (tape and braid, optional drain wire)
4- Fluoropolymer FEP jacket

Approvals - standards
- Compliance UL 1277 Type TC File E517270
- Compliance cUL & CSA (AWM I/II A/B)
- Compliance UL 66 or UL 83A (for inners)
- Compliance ANSI/NFPA 70 (NEC) Article 336
- NEC Articles 318 and 340
- NEC Article 725
- RoHS Compliant



Use: tray cable is a versatile cable approved for use in raceways and cable trays. They come in multi-conductors cables, and can be used for control and power

General precaution of use
- Can be used indoors to power parts of a home, office building or other structures. Other installations approved for building wire
- Can be used outdoors
- Will work even if exposed from conduit to equipment
- Must be supported every six feet
- Must meet exposed run requirement of the property it is on

Standard products
Color coding = ICEA/NEMA Method 1 E-1 (formerly K-1)

UL	Type TC 1277 (Inners UL 66)				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Jacket thickness (AWG)	Nominal OD (in)
2	18	7 x 26	.025	.045	.289
3	18	7 x 26	.025	.045	.303
4	18	7 x 26	.025	.045	.330
5	18	7 x 26	.025	.045	.350
7	18	7 x 26	.025	.045	.376
12	18	7 x 26	.025	.045	.478
19	18	7 x 26	.025	.060	.580
37	18	7 x 26	.025	.060	.754
2	16	7 x 24	.025	.045	.313
3	16	7 x 24	.025	.045	.329
4	16	7 x 24	.025	.045	.360
5	16	7 x 24	.025	.045	.383
7	16	7 x 24	.025	.045	.413
12	16	7 x 24	.025	.045	.529
19	16	7 x 24	.025	.060	.641
37	16	7 x 24	.025	.060	.839

Flame ratings	VW-1, IEEE 383, FT4 / IEEE 1202

Other number of singles and AWG sizes on request
Other stranding on request (solid or other stranded composition)

UL	Type TC 1277 (Inners UL 83A)				
Nb of Singles	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Jacket thickness (AWG)	Nominal OD (in)
2	14	105 x 34	.020	.045	.355
3	14	105 x 34	.020	.045	.374
4	14	105 x 34	.020	.045	.412
5	14	105 x 34	.020	.045	.439
7	14	105 x 34	.020	.045	.475
12	14	105 x 34	.020	.060	.646
19	14	105 x 34	.020	.060	.745
37	14	105 x 34	.020	.080	1.025
2	12	65 x 30	.020	.045	.379
3	12	65 x 30	.020	.045	.400
4	12	65 x 30	.020	.045	.441
5	12	65 x 30	.020	.045	.472
7	12	65 x 30	.020	.045	.511
2	10	105 x 30	.020	.045	.455
3	10	105 x 30	.020	.045	.482
4	10	105 x 30	.020	.045	.535
5	10	105 x 30	.020	.060	.604
2	8	133 x 29	.030	.060	.605
3	8	133 x 29	.030	.060	.642
4	8	133 x 29	.030	.060	.714
5	8	133 x 29	.030	.060	.767
2	6	133 x 27	.030	.060	.671
3	6	133 x 27	.030	.060	.713
4	6	133 x 27	.030	.060	.795
5	6	133 x 27	.030	.080	.895

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INDUSTRIAL CABLES

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QS TECH®
Custom cables

TECHNICAL EXPERTISE

Thanks to our expertise and total mastery of our electrical cable manufacturing processes, our R&D engineers have developed the QS TECH® range. This range of composite & special cables is intended for cutting-edge sectors like aerospace, military applications, robotics, medical applications, oil exploration, industry, etc.

HIGH PERFORMANCE

QS TECH® cables are tested extensively at all production stages to ensure top quality and to meet your requirements. Our laboratory has the resources to test and validate the physical, mechanical, chemical, electrical and fire-resistance behavior of the cables we produce.

CUSTOMIZED SOLUTION

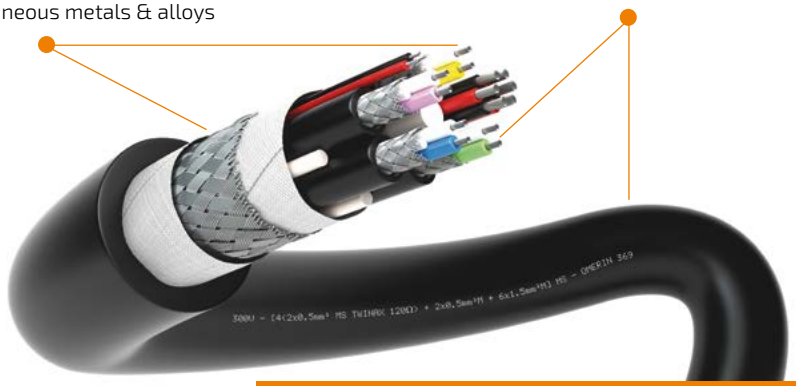
Our Design Office is made up of experienced engineers who are specialists in metallurgy, plastics manufacture, electromagnetic compatibility, micromechanics, data transmission, etc. It will provide you with a fast, precise response by developing an QS TECH® in line with the miscellaneous and complex constraints of your applications.

CONDUCTORS, SHIELDING

Bare copper, tin-plated copper, nickel-plated copper, silver-plated copper, nickel, silver, aluminum, resistance alloys, thermocouple alloys, stainless steel, galvanized steel, PET/aluminum tape, miscellaneous metals & alloys

INSULATION MATERIALS

PVC, PE, TPE, PU, miscellaneous thermoplastics, ETFE, FEP, PFA, PTFE, silicone rubber, mica, fiberglass, polyimide, para-aramids, meta-aramids, high temperature fibers



KNOW HOW & TECHNOLOGIES

- Bunching
- Extrusion form .005" WT (wall thickness) to 1.5" O.D (outside diameter)
- Braiding
- Wrapping, taping, sintering
- Winding
- Inkjet & contact printing, color striping, laser skiving

DESIGNED & TESTED
According to our customer specifications & their high requirements

> Contact us to define with our sales engineers the product best suited to your application.

EXAMPLES OF PRODUCTS

QS TECH® MY2BE-E6

Hybrid cables 4 x AWG 24 + AWG 6
Developed for the power supply and control / command for industrial applications

QS TECH® PBS 90 R

Submersible cable developed for high temperature water, CSA Compliant Wet 90°C Dry 105°C (for more information, consult our FTUS-6104 datasheet)

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FTUS-6102a

UP TO +1400°C

SILIFLAM® THS

Safety cables for extreme temperatures and fire related applications

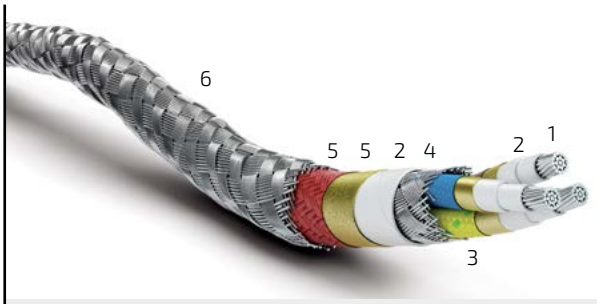
- ***High temperature resistance* ****
  SILIFLAM® THS 1000 Series: +400°C to +800°C
  SILIFLAM® THS 1200 Series: +500°C to +1,000°C
  SILIFLAM® THS 1400 Series: +700°C to +1,200°C
  SILIFLAM® THS 1500 Series: +900°C to +1,400°C
- *Low voltage (until 600 / 1,000 V)*
- *Asbestos free*

** Due to their specificity, and the nature of the installations powered, it is difficult to state specific and perfectly defined operating temperature ranges for SILIFLAM® THS. However, it is possible to state recommended operating limits, essentially representing the temperature range withstood by the insulation without sustaining rapid noteworthy degradation of its dielectric properties, potentially leading to short circuits that can be harmful for the installation.*

Construction
1- Nickel plated copper or Nickel conductors
(see table below for more details)
2- (Optional) PTFE or Polyimide tapes
3- Composite insulation and jacketing:
Mica and coated Borosilicoaluminate fibre
4- (Optional) Nickel-plated copper electrical screen braid
5- (Optional) AISI 304 Stainless steel outer shielding

Outer jacket:
THS 1000 and 1200 series: Brick Red or Grey
THS 1400 and 1500 series: Natural White

*** Note: The color of the conductors is used for the purposes of identification during assembly. In view of the extreme temperatures liable to be encountered by SILIFLAM® THS, some colors may partially disappear or be modified in the course of normal cable use, as most of the pigments used are not capable of withstanding the temperatures liable to be applied to these products.*



Use: SILIFLAM® THS products can operate under conditions and temperatures that no other standard cable on the market can withstand. They are specifically designed to power industrial installations and keep them running under the most severe operating conditions. They can be used in areas where the conditions may vary under exceptional or accidental circumstances and reach abnormal levels. In this case, SILIFLAM® THS retain their electrical integrity for a period of time, thus allowing proper shut down of the installation and evacuation of personnel and equipment.

Standard products
• Color coding ** = Conductors:THS 1000 and 1200 Series:
according to IEC 60445
THS 1400 and 1500 Series: Natural White or according to IEC 60445
Outer jacket:
THS 1000 and 1200 series: Brick Red or Grey
THS 1400 and 1500 series: Natural White

Further technical information

Conducting conductors	*2%, 27% Nickel-plated copper or pure Nickel*
Available range – Single conductor cable	*AWG 24 to 750MCM*
Available range – Multi conductor cable	*2 to 37 conductors (depends on models)*
Option: dielectric reinforced protection	*PTFE (THS 1030 and 1230 series) or Polyimide tapes (THS 105. 125. 1450 and 1550 series)*
Option: electromagnetic interferences protection	*Electrical screen in Nickel plated copper (THS reference – BCN series)*
Option: mechanical protection	*Stainless steel armor (THS references – BI series)*

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CERAFIL® CN8

Miniature ceramic insulated wires for very high temperatures

- *Operating temp. -90°C to +500°C **
- *Miniature size, weighing far less*
- *Excellent radiation resistance*
- *Totally non-combustible at temperatures over 1,000°C CERAFIL® may melt but cannot catch fire• Inert to usual and organic solvents*

Construction
1 - Copper / nickel support
2 – Cerafil® insulation

OMERIN INNOVATION
CERAFIL®, a ceramic-insulated wire for very high temperatures is the result of several years of research in our laboratory.
Our team of engineers has developed ground-breaking technology that deposits ceramic on a lead wire of very small diameter (from AWG 41)

A FEW PRECAUTIONS WHEN USING
Ceramic is very different from traditional insulations.
It is a rigid, hydrophilic material that requires special care when using.
CERAFIL ® must be stored in a dry environment and handled with care, without mechanical mistreatment (folding, traction, etc.).
It must be stripped using fine grain sandpaper. Do not hesitate to contact us for further information.

Use: This miniature and very high temperature wire has been designed to allow the manufacturing of extremely reliable windings capable of withstanding any thermal overload (mechanical heating, short-circuit, location with thermal risk, etc.). In addition, thermocouple cables with CERAFIL® type ceramic insulation can be made upon request to measure temperature in contained environments subject to extreme heat

Standard products
Color coding = Grey

Temperature °C	Max. resistivity µΩ/cm
20	3.000
100	4.090
200	5.180
300	6.270
400	7.360

** Note : +800°C during 240 h minimum, Peak temperature +1,000°C. At temperature > 315°C after extended use, CERAFIL® can experience migration of the nickel that may cause its max. resistivity to increase (please consult us for more information)*

AWG Size	Nominal OD (mm)	Nominal OD (in)	Tolerance (mm)	Approx. linear weight (lbs/mft)	Lenght (ft/lbs)	Maximum tensile strength (N)		Minimum bending radius (in)	Maximum linear resistance at 20°C (Ω / ft)
						Reco*	Max.		
41	.091	.003	+/- .009	.024	43 380	0.15	0.22	.020	2.518
38	.118	.005	+/- .008	.050	21 251	0.30	0.44	.025	1.237
36	.138	.005	+/- .008	.071	14 763	0.43	0.65	.029	.850
34	.168	.007	+/- .008	.110	9 435	0.68	1.02	.035	.539
34	.188	.007	+/- .008	.140	7 352	0.88	1.31	.039	.418
32	.218	.009	+/- .008	.194	5 313	1.22	1.83	.044	.300
30	.268	.011	+/- .008	.301	3 393	1.92	2.87	.054	.191
28	.319	.013	+/- .009	.434	2 351	2.75	4.13	.065	.133
27	.369	.014	+/- .009	.589	1 726	3.76	5.64	.074	.097
26	.419	.016	+/- .009	.767	1 324	4.93	7.39	.084	.074
25	.469	.018	+/- .009	.974	1 042	6.22	9.33	.094	.059
24	.519	.020	+/- .009	1.199	848	7.70	11.50	.104	.048
23	.569	.022	+/- .009	1.453	699	9.30	13.90	.114	.039
22	.619	.024	+/- .009	1.727	580	11.10	16.60	.124	.033
22	.669	.026	+/- .009	2.030	491	13.00	19.50	.133	.028
21	.719	.028	+/- .009	2.351	432	15.10	22.60	.143	.024
20	.770	.030	+/- .010	2.702	372	17.30	25.90	.154	.021
20	.820	.032	+/- .010	3.071	327	19.70	29.60	.163	.019
19	.920	.036	+/- .010	3.886	253	24.90	37.40	.183	.015
18	1.020	.040	+/- .010	4.798	208	30.80	46.20	.203	.012

*Recommended winding tension.

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FTUS-6104a

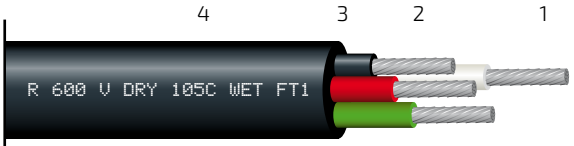
QS TECH® PBS 90 R

Power cable for high temperature submersible pumps

- *Permanent immersion*
- *Wet 90°C / Dry 105°C*

Construction
1- Tin-plated copper conductor
2- Fluoropolymer insulation
3- Optional imbedded nylon braid4- TPE jacket
Superbulk fillers added for roundness

Approvals - standards
- CSA ComplianceDry 105°C, Wet 90°C (200°F)
- RoHS Compliant



Use: Ideal for the power supply of submersible pumps in direct contact with hot liquids up to 90°C (beverage and bottling plants, meat processing, dairy product processing, boiler blowdown…)

Standard products
Color coding = Insulated singles Black / White / Red / Green
(except for AWG 18 in Black / White / Red / Yellow)
Outer jacket standard color: Black

cUL	AWM II A/B						
Nb of pairs	AWG Size	Nominal stranding (Nb x AWG)	Insulation wall (in)	Drain wire (AWG)	Jacket thickness (in)	Nominal OD (in)	Approx. linear weight (lbs/mft)
4	4	133 x 25	.030	Yes	.130	1.280	
4	6	133 x 27	.030	Yes	.125	1.100	
4	8	133 x 29	.030	Yes	.120	.930	
4	10	105 x 30	.030	Yes	.110	.710	
4	12	65 x 30	.030	Yes	.100	.630	
4	14	41 x 30	.030	Yes	.090	.520	
4	16	26 x 30	.030	-	.065	.420	
4	18	19 x 30	.030	-	.050	.365	
Flame ratings	FT1						

Other number of singles and AWG sizes on request

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TEN004

HIGH TEMPERATURE BRAIDED SLEEVINGS

omerin

SILIGAINE® 13F4

Polyurethane varnish coated fiberglass sleeving

- ***Class F / +155°C (311°F)***
- ***Dielectric grade: 4,000 V***
- *Very good flexibility*
- *Halogen-free*

Construction
Polyurethane coated fiberglass sleeving

Approvals - standards
- Compliance UL file E310331 category UZKX2
- RoHS Compliant

Use: Internal cabling for rotating and static machines, jacketing of cable harnesses. All insulations classes B and F

Standard products
Color: Natural
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0098	1.1
0.8	22	.031	.0098	1.7
1	19	.039	.0098	2.2
1.5	15	.059	.0138	3.4
2	13	.079	.0138	4.5
2.5	11	.098	.0157	5.8
3	9	.118	.0157	7.0
3.5	8	.138	.0157	8.3
4	7	.157	.0197	9.5
4.5	6	.177	.0197	10.9
5	5	.197	.0197	12.3
6	3	.236	.0197	15.1
7	2	.276	.0197	18.1
8	1-0	.315	.0197	21.2
10		3/8 in	.0256	27.7
12		7/16 in – ½ in	.0256	34.7
14		½ in – 5/8 in	.0256	42.3
16		5/8 in	.0256	50.3
18		11/16 in	.0256	58.9
20		½ in – 5/8 in	.0256	67.9
22		5/8 in	.0256	78.0
25		11/16 in	.0256	84.0
Flame ratings	Horizontal			

(*) other trade sizes on request

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SILIGAINE® 16F2

Acrylic coated fiberglass sleeving

- ***Class F / +155°C (311°F)***
- ***Dielectric grade: 2,000 V***
- *Very good flexibility*
- *Halogen-free*

Construction
Acrylic-polymer coated fiberglass sleeving

Approvals - standards
- Compliance UL file E310331 category UZKX2
- RoHS Compliant

Use: Internal cabling for rotating and static machines, jacketing of cable harnesses. All insulations classes B and F

Standard products
Color: Yellow
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0079	1.1
0.8	22	.031	.0079	1.5
1	19	.039	.0079	1.7
1.5	15	.059	.0079	2.3
2	13	.079	.0079	3.0
2.5	11	.098	.0079	3.6
3	9	.118	.0079	4.4
3.5	8	.138	.0079	5.1
4	7	.157	.0118	5.9
4.5	6	.177	.0118	6.7
5	5	.197	.0118	7.6
6	3	.236	.0118	9.5
7	2	.276	.0118	11.5
8	1-0	.315	.0118	13.6
10		3/8 in	.0157	18.4
12		7/16 in – 1/2 in	.0157	23.9
14		1/2 in – 5/8 in	.0157	29.9
16		5/8 in	.0157	41.3
18		11/16 in	.0157	52.1
20		13/16 in	.0157	67.2
22		7/8 in	.0157	87.4
25		1 in	.0157	95.4
Flame ratings	Horizontal			

(*) other trade sizes on request

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SILIGAINE® 16F3

Acrylic coated fiberglass sleeving

- ***Class F / +155°C (311°F)***
- ***Dielectric grade: 3,000 V***
- *Very good flexibility*
- *Halogen-free*

Construction
Acrylic-polymer coated fiberglass sleeving

Approvals - standards
- Compliance UL file E310331 category UZKX2
- RoHS Compliant

Use: Internal cabling for rotating and static machines, jacketing of cable harnesses. All insulations classes B and F

Standard products
Color: Yellow
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0079	1.3
0.8	22	.031	.0079	1.8
1	19	.039	.0079	2.2
1.5	15	.059	.0079	3.0
2	13	.079	.0079	3.9
2.5	11	.098	.0079	4.8
3	9	.118	.0079	5.8
3.5	8	.138	.0079	6.7
4	7	.157	.0118	7.8
4.5	6	.177	.0118	8.8
5	5	.197	.0118	9.9
6	3	.236	.0118	12.2
7	2	.276	.0118	14.7
8	1-0	.315	.0118	17.3
10		3/8 in	.0157	20.8
12		7/16 in – . in	.0197	29.0
14		. in – 5/8 in	.0236	37.8
16		5/8 in	.0276	47.2
18		11/16 in	.0276	57.1
20		13/16 in	.0315	70.6
22		7/8 in	.0315	89.4
25		1 in	.0315	97.4
Flame ratings	Horizontal			

(*) other trade sizes on request

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SILIGAINE® 16F7 GRADE A

Acrylic coated fiberglass sleeving

- ***Class F / +155°C***
- ***Dielectric grade: 7,000 V***
- ***Grade A / 155°C – 600 V***
- *Very good flexibility*
- *Halogen-free*

Construction
Acrylic-polymer coated fiberglass sleeving

Approvals - standards
- Compliance UL / CSA file E179383 category UZFT2 / UZFT8
- Grade A electrical sleeving155°C – 600 V as per UL 1441
- RoHS Compliant

Use: Internal cabling for rotating and static machines, jacketing of cable harnesses.
All insulations classes B and F

Standard products
Color: Yellow
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0098	0.9
0.8	22	.031	.0098	1.5
1	19	.039	.0098	1.9
1.5	15	.059	.0138	3.0
2	13	.079	.0138	4.1
2.5	11	.098	.0157	5.2
3	9	.118	.0157	6.3
3.5	8	.138	.0157	7.5
4	7	.157	.0197	8.7
4.5	6	.177	.0197	10.0
5	5	.197	.0197	11.3
6	3	.236	.0197	14.0
7	2	.276	.0197	16.9
8	1-0	.315	.0197	19.9
10		3/8 in	.0256	26.4
12		7/16 in – ½ in	.0256	33.5
14		½ in – 5/8 in	.0256	41.2
16		5/8 in	.0256	49.5
Flame ratings	Horizontal			

(*) other trade sizes on request

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SILIGAINE® 15C2

Silicone coated fiberglass flame retardant sleeving

- ***Class H / +200°C (392°F)***
- ***Dielectric grade: 2,000 V***
- *Very good flexibility*
- *Halogen-free*
- *Self-extinguishing*

Construction
Silicone-polymer coated fiberglass sleeving

Approvals - standards
• Compliance UL / CSA file E212701 category UZIQ2: meets the requirements of the flame retardant test VW-1
• RoHS Compliant

Use: Internal cabling for rotating and static machines, all insulations classes H and C (electronic, heating and lighting... appliances)

Standard products
Color: Brick red
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0059	1.6
0.8	22	.031	.0059	2.0
1	19	.039	.0059	2.3
1.5	15	.059	.0059	3.0
2	13	.079	.0059	3.8
2.5	11	.098	.0059	4.6
3	9	.118	.0059	5.5
3.5	8	.138	.0059	6.4
4	7	.157	.0079	7.4
4.5	6	.177	.0079	8.3
5	5	.197	.0079	9.4
6	3	.236	.0079	11.6
7	2	.276	.0079	13.9
8	1-0	.315	.0079	16.4
10		3/8 in	.0157	22.0
12		7/16 in – ½ in	.0157	36.3
14		½ in – 5/8 in	.0157	49.5
16		5/8 in	.0157	61.7
Flame ratings	VW-1			

(*) other trade sizes on request

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SILIGAINE® 15C3

Silicone coated fiberglass flame retardant sleeving

- ***Class H / +200°C (392°F)***
- ***Dielectric grade: 3,000 V***
- *Very good flexibility*
- *Halogen-free*
- *Self-extinguishing*

Construction
Silicone-polymer coated fiberglass sleeving

Approvals - standards
• Compliance UL / CSA file E212701 category UZIQ2: meets the requirements of the flame retardant test VW-1
• RoHS Compliant

Use: Internal cabling for rotating and static machines, all insulations classes H and C (electronic, heating and lighting... appliances)

Standard products
Color: Brick red
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.013	.0079	1.6
0.8	22	.020	.0079	2.0
1	19	.025	.0079	2.3
1.5	15	.038	.0079	3.0
2	13	.050	.0079	3.8
2.5	11	.063	.0079	4.6
3	9	.076	.0079	5.5
3.5	8	.090	.0079	6.5
4	7	.102	.0118	7.5
4.5	6	.114	.0118	8.5
5	5	.127	.0118	9.5
6	3	.152	.0118	11.8
7	2	.178	.0118	14.2
8	1-0	.203	.0118	16.7
10		3/8 in	.0157	22.4
12		7/16 in – ½ in	.0157	36.7
14		½ in – 5/8 in	.0157	51.9
16		5/8 in	.0157	62.3
18		11/16 in	.0157	75.3
20		13/16 in	.0157	90.1
22		7/8 in	.0157	106
25		1 in	.0157	132
30		1 ¼ in	.0157	179
35		1 3/8 in	.0157	219
40		1 5/8 in	.0157	261
Flame ratings	VW-1			

(*) other trade sizes on request

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SILIGAINE® 15C4

Silicone coated fiberglass flame retardant sleeving

- ***Class H / +200°C (392°F)***
- ***Dielectric grade: 4,000 V***
- *Very good flexibility*
- *Halogen-free*
- *Self-extinguishing*

Construction
Silicone-polymer coated fiberglass sleeving

Approvals - standards
- Compliance UL / CSA file E212701 category UZIQ2: meets the requirements of the flame retardant test VW-1
- RoHS Compliant

Use: Internal cabling for rotating and static machines, all insulations classes H and C (electronic, heating and lighting… appliances)

Standard products
Color: Brick red
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.013	.0157	2.2
0.8	22	.020	.0157	2.6
1	19	.025	.0157	2.8
1.5	15	.038	.0157	3.5
2	13	.050	.0157	4.2
2.5	11	.063	.0157	5.0
3	9	.076	.0157	5.8
3.5	8	.090	.0157	6.7
4	7	.102	.0236	7.6
4.5	6	.114	.0236	8.6
5	5	.127	.0236	9.6
6	3	.152	.0236	11.8
7	2	.178	.0236	14.2
8	1-0	.203	.0236	16.9
10		3/8 in	.0315	22.8
12		7/16 in – ½ in	.0315	38.2
14		½ in – 5/8 in	.0315	49.7
16		5/8 in	.0354	67.2
18		11/16 in	.0394	82.7
20		13/16 in	.0394	98.8
22		7/8 in	.0394	114
25		1 in	.0472	139
30		1 ¼ in	.0512	182
35		1 3/8 in	.0591	240
40		1 5/8 in	.0591	305
Flame ratings	VW-1			

(*) other trade sizes on request

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SILIGAINE® 15C7 GRADE A

Silicone coated fiberglass flame retardant sleeving

- ***Class H / +200°C (392°F)***
- ***Dielectric grade: 7,000 V***
- ***Grade A / 200°C – 600 V***
- *Very good flexibility*
- *Halogen-free*
- *Self-extinguishing*

Construction
Silicone-polymer coated fiberglass sleeving

Approvals - standards
- Compliance UL / CSA file E179383 category UZFT2 / UZFT8
- Meets the requirements of the flame retardant test VW-1
- Grade A electrical sleeving, 200°C – 600 V as per UL 1441
- RoHS Compliant

Use: Internal cabling for rotating and static machines, all insulations classes H and C (electronic, heating and lighting… appliances)

Standard products
Color: Brick red
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0098	1.3
0.8	22	.031	.0098	2.0
1	19	.039	.0098	2.6
1.5	15	.059	.0138	3.8
2	13	.079	.0138	5.2
2.5	11	.098	.0157	6.5
3	9	.118	.0157	7.9
3.5	8	.138	.0157	9.3
4	7	.157	.0197	10.8
4.5	6	.177	.0197	12.2
5	5	.197	.0197	13.6
6	3	.236	.0197	16.7
7	2	.276	.0197	19.9
8	1-0	.315	.0197	23.1
10		3/8 in	.0256	30.0
12		7/16 in – ½ in	.0256	37.2
14		½ in – 5/8 in	.0256	44.9
16		5/8 in	.0256	53.0
Flame ratings	VW-1			

(*) other trade sizes on request

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SILIGAINE® 21F1

Resin impregnated
Fiberglass flame retardant sleeving

- ***Thermal class +280°C (536°F)***
- ***Dielectric grade: 1,000 V***
- *Very good abrasion resistance*
- *Self-extinguishing*

Construction
Resin impregnated fiberglass sleeving

Approvals - standards
- Compliance UL / CSA file E212701 category UZIQ2: meets the requirements of the flame retardant test VW-1 (diameters from 0.8 to 25 mm)
- RoHS Compliant

Use: Cabling for heating elements and appliances, jacketing of cable harnesses for cables subject to high temperature and mechanical constraints

Standard products
Color: Black
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.013	.0079	0.3
0.8	22	.020	.0079	0.9
1	19	.025	.0079	1.2
1.5	15	.038	.0079	2.2
2	13	.050	.0079	3.0
2.5	11	.063	.0079	4.0
3	9	.076	.0079	4.8
3.5	8	.090	.0079	5.8
4	7	.102	.0118	6.7
4.5	6	.114	.0118	7.4
5	5	.127	.0118	8.1
6	3	.152	.0118	8.7
7	2	.178	.0118	8.7
8	1-0	.203	.0118	9.4
10		3/8 in	.0157	10.8
12		7/16 in – ½ in	.0157	12.8
14		½ in – 5/8 in	.0157	16.1
16		5/8 in	.0157	20.8
18		11/16 in	.0157	26.2
20		13/16 in	.0157	32.3
25		1 in	.0197	52.4
30		1 ¼ in	.0197	79.3
35		1 3/8 in	.0197	110
40		1 5/8 in	.0197	131
45		1 ¾ in	.0197	137
50		2 in	.0197	168
Flame ratings	VW-1			

(*) other trade sizes on request

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SILIGAINE® 24C1

Heat treated & silicone varnish impregnated fiberglass flame retardant sleeving

- ***Thermal class +350°C (662°F)***
- ***Dielectric grade: 1,000 V***
- *Self-extinguishing*

Construction
Heat treated and silicone varnish impregnated fiberglass sleeving

Approvals - standards
- Compliance UL / CSA file E212701 category UZIQ2: meets the requirements of the flame retardant test VW-1 (diameters from 0.8 to 25 mm)
- RoHS Compliant

Use: Cabling for heating elements and appliances, jacketing of cable harnesses for cables subject to high temperature

Standard products
Color: White
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.020	.0079	1.0
0.8	22	.031	.0079	1.3
1	19	.039	.0079	1.6
1.5	15	.059	.0079	1.9
2	13	.079	.0079	2.1
2.5	11	.098	.0079	2.6
3	9	.118	.0079	4.6
3.5	8	.138	.0079	5.0
4	7	.157	.0118	6.0
4.5	6	.177	.0118	6.7
5	5	.197	.0118	8.1
6	3	.236	.0118	9.4
7	2	276	.0118	11.4
8	1-0	.315	.0118	13.4
10		3/8 in	.0157	17.5
12		7/16 in – ½ in	.0157	21.5
14		½ in – 5/8 in	.0157	25.5
16		5/8 in	.0157	30.9
18		11/16 in	.0157	37.0
20		13/16 in	.0157	40.3
22		7/8 in	.0197	50.4
25		1 in	.0197	57.8
30		1 ¼ in	.0197	70.6
35		1 3/8 in	.0197	90.7
40		1 5/8 in	.0197	100
Flame ratings	VW-1			

(*) other trade sizes on request

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SILIGAINE® 31-1

Heat treated fiberglass flame retardant sleeving

- ***Thermal class +450°C (842°F)***
- *Very high temperature resistance*
- *Self-extinguishing*

Construction
Resin impregnated fiberglass sleeving

Approvals - standards
- Compliance UL / CSA file E212701 category UZIQ2: meets the requirements of the flame retardant test VW-1 (diameters from 0.8 to 25 mm)
- RoHS Compliant

Use: Cabling for heating elements and appliances, jacketing of cable harnesses for cables subject to high temperature

Standard products
Color: White
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (*) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.013	.0079	1.0
0.8	22	.020	.0079	1.2
1	19	.025	.0079	1.5
1.5	15	.038	.0079	1.7
2	13	.050	.0079	2.9
2.5	11	.063	.0079	3.5
3	9	.076	.0079	4.0
3.5	8	.090	.0079	5.6
4	7	.102	.0118	5.6
4.5	6	.114	.0118	6.5
5	5	.127	.0118	6.7
6	3	.152	.0118	9.4
7	2	.178	.0118	10.8
8	1-0	.203	.0118	12.1
10		3/8 in	.0157	14.8
12		7/16 in – ½ in	.0157	17.5
14		½ in – 5/8 in	.0157	21.5
16		5/8 in	.0157	26.9
18		11/16 in	.0157	34.9
20		13/16 in	.0157	26.9
22		7/8 in	.0157	40.3
25		1 in	.0197	51.1
30		1 ¼ in	.0197	60.5
35		1 3/8 in	.0197	67.2
40		1 5/8 in	.0197	70.6
45		1 ¾ in	.0197	73.9
50		2 in	.0197	84.0
Flame ratings	VW-1			

(*) other trade sizes on request

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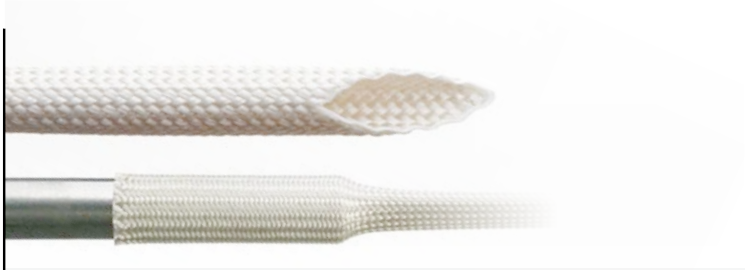
SILIGAINE® 31C1E

Heat treated & varnish impregnated fiberglass flame retardant stretchable sleeving

- ***Thermal class +450°C (842°F)***
- *Very high temperature resistance*
- *Self-extinguishing*
- *Stretchable*

Construction
Heat treated & varnish impregnated fiberglass stretchable sleeving

Approvals - standards
• Compliance UL / CSA file E212701
category UZIQ2: meets the requirements of the flame retardant test VW-1
• RoHS Compliant



Use: Cabling for heating elements and appliances, jacketing of cable harnesses for cables subject to high temperature

Standard products
Color: Silver-gray
Supply: Continuous spooled lengths or cut lengths

Inner diameter (mm)	Closest Trade size (**) AWG	Inner diameter (in)	Approx. thickness (in)	Weight (lbs/mft)
0.5	24	.013	.0079	1.7
1	19	.025	.0079	2.0
1.5	15	.038	.0079	2.3
2	13	.050	.0079	3.0
3	9	.076	.0079	4.4
4	7	.102	.0118	5.9
5	5	.127	.0118	8.1
6	3	.152	.0118	10.0
7	2	.178	.0118	11.8
8	1-0	.203	.0118	13.4
10		3/8 in	.0157	15.8
12		7/16 in – ½ in	.0157	19.8
14		½ in – 5/8 in	.0157	21.5
16		5/8 in	.0157	32.9
18		11/16 in	.0157	37.0
20		13/16 in	.0157	43.7
Flame ratings	VW-1			

(*) other trade sizes on request
(**) diameter can be stretched up to aprox. 1.5 to 2 times the normal diameter.

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COMPLETE LIST OF UL APPROVED STYLES

COMPLETE LIST OF UL APPROVED STYLES *AT OMERIN*

THERMOPLASTIC *INSULATED WIRE*

Omerin Reference	conductor material*	Datasheet	Page
PLASTHERM® PVC 60°C / 30 V			
Style 1605	Specific, tinsel UL 62	On request	-
PLASTHERM® PVC 60°C / 300 V			
Style 1158	BCDEFG	On request	-
Style 1159	BCDEFG	On request	-
Style 10076	BCDEFG	On request	-
Style 10127	BF	On request	-
PLASTHERM® PVC 75°C / 300 V			
Style 10437	BF	On request	-
PLASTHERM® PVC 75°C / 600 V			
Style 10438	BCDEFG	On request	-
PLASTHERM® PVC 80°C / 300 V			
Style 1007	BCDEFG	FTUS-1101	12
Style 1581	BCDEFG	FTUS-1101	12
Style 1497	BCDEFG	On request	-
Style 1908	BCDEFG	On request	-
Style 1662	BCDEFG	On request	-
Style 10053	BCDEFG	On request	-
PLASTHERM® PVC 80°C / 600 V			
Style 1011	BCDEFG	FTUS-1101	12
Style 10381	BCDEFG	On request	-
Style 1498	BCDEFG	On request	-
Style 1017	BCDEFG	On request	-
Style 1019	BCDEFG	On request	-
Style 1909	BCDEFG	On request	-
Style 1020	BCDEFG	On request	-
Style 1021	BCDEFG	On request	-
Style 1022	BCDEFG	On request	-
Style 1023	BCDEFG	On request	-
Style 11403	BCDEFG	On request	-
PLASTHERM® PVC 80°C / 1,000 V			
Style 1030	BCDEFG	FTUS-1101	12
PLASTHERM® PVC 90°C / 300 V			
Style 1706	BCDEFG	On request	-
PLASTHERM® PVC 90°C / 600 V			
Style 1024	BCDEFG	On request	-
Style 1026	BCDEFG	On request	-
Style 1027	BCDEFG	On request	-
Style 1207	BCDEFG	On request	-
Style 1499	BCDEFG	On request	-
Style 10321	BCDEFG	On request	-
Style 11402	BCDEFG	On request	-
PLASTHERM® PVC 90°C / 1,000 V			
Style 1032	BCDEFG	On request	-
Style 1444	BCDEFG	On request	-

Omerin Reference	conductor material*	Datasheet	Page
PLASTHERM® PVC 105°C / 300 V			
Style 1569	BCDEFG	FTUS-1102	13
Style 10198	BCDEFG	FTUS-1102	13
Style 1896	BF	On request	-
Style 1484	BCDFG	On request	-
Style 1504	BCDEFG	On request	-
Style 10236	BCDEFG	On request	-
Style 1170	Resistance wire	On request	-
Style 1172	Resistance wire	On request	-
Style 1193	Resistance wire	On request	-
PLASTHERM® PVC 105°C / 600 V			
Style 1015	BCDEFG	FTUS-1102	13
Style 1283	BCDEFG	On request	-
Style 1897	BCDEFG	On request	-
Style 10012	BCDEFG	On request	-
Style 1500	BCDEFG	On request	-
Style 1028	BCDEFG	On request	-
Style 1500	BCDEFG	On request	-
Style 1647	BCDEFG	On request	-
Style 1650	BCDEFG	On request	-
Style 10070	BCDEFG	On request	-
Style 1650	BCDEFG	On request	-
Style 11401	BCDEFG	On request	-
Style 10015	Resistance wire	On request	-
PLASTHERM® PVC 105°C / 1,000 V			
Style 10269	BCDEFG	FTUS-1102	13
Style 10914	BCDEFG	On request	-
Style 10271	BCDEFG	On request	-
Style 11122	BCDEFG	On request	-
Style 11287	BCDEFG	On request	-
PLASTHERM® TPE 90°C / 600 V			
Style 1765	BCDEFG	On request	-
Style 10411	BCDEFG	On request	-
Style 10463	BCDEFG	On request	-
Style 10694	BCDEFG	On request	-
PLASTHERM® TPE 105°C / 300 V			
Style 1790	BCDEFG	FTUS-1103	14
Style 10066	BCDEFG	On request	-
Style 1983	BCDEFG	On request	-
PLASTHERM® TPE 105°C / 600 V			
Style 10322	BCDEFG	FTUS-1103	14
Style 1698	BF	On request	-
Style 10149	BCDEFG	On request	-
Style 10187	BCDEFG	On request	-
PLASTHERM® TPE 125°C / 300 V			
Style 1888	BDF	FTUS-1104	15
PLASTHERM® TPE 125°C / 600 V			
Style 1722	BF	On request	-

Legend
*Conducting metals

B = Tin plated copper
C = Nickel-plated copper
D = Silver-plated copper
E = Nickel
F = Bare copper
G = Nickel-plated copper 27%

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FLUOROPOLYMER INSULATED WIRE

Omerin Reference	conductor material*	Insulation	Datasheet	Page
SILIFLON® Fluoropolymer 80°C / Voltage not specified				
Style 1226	BCDEFG	FEP ultra thin wall	On request	-
Style 1212	BCDEFG	PTFE	On request	-
SILIFLON® Fluoropolymer 80°C / 300 V				
Style 1744	BCDEFG	PTFE	On request	-
SILIFLON® Fluoropolymer 105°C / Voltage not specified				
Style 1227	BCDEFG	FEP ultra thin wall	On request	-
Style 1516	BCDEFG	ETFE ultra thin wall	On request	-
Style 1586	Specific	ETFE ultra thin wall	On request	-
Style 1610	BCDEFG	ETFE thin wall	On request	-
SILIFLON® Fluoropolymer 105°C / 30 V				
Style 1508	BCDEFG	FEP ultra thin wall	On request	-
Style 1847	BCDEFG	FEP ultra thin wall	On request	-
Style 1905	BCDG	ETFE ultra thin wall	On request	-
Style 1684	BCDEFG	PTFE	On request	-
SILIFLON® Fluoropolymer 105°C / 125 V				
Style 1609	Specific	FEP ultra thin wall	On request	-
SILIFLON® Fluoropolymer 105°C / 300 V				
Style 1989	BCDEFG	ETFE thin wall	On request	-
SILIFLON® Fluoropolymer 105°C / 300 V				
Style 1990	Specific	ETFE thin wall	On request	-
SILIFLON® Fluoropolymer 125°C / 150 V				
Style 1862	BCDFG	ETFE thin wall	On request	-
Style 1988	BCDEFG	ETFE thin wall	On request	-
SILIFLON® Fluoropolymer 125°C / 300 V				
Style 1558	BCDG	FEP ultra thin wall	On request	-
Style 1863	Specific	ETFE Standard wall	On request	-
SILIFLON® Fluoropolymer 125°C / 600 V				
Style 1864	BCDG	ETFE Standard wall	On request	-
SILIFLON® Fluoropolymer 150°C / 125 V				
Style 1827	BCDEFG	ETFE ultra thin wall	On request	-
SILIFLON® Fluoropolymer 150°C / 150 V				
Style 1857	BCDEFG	PFA thin wall	On request	-
Style 1716	Magnet wire	FEP or PFA ultra thin wall	On request	-
Style 1814	Specific	ETFE ultra thin wall	On request	-
SILIFLON® Fluoropolymer 150°C / 300 V				
Style 10125	BCDEFG	ETFE thin wall	FTUS-1209	29
Style 10358	BCDEFG	ETFE thin wall	FTUS-1209	29
Style 1643	BCDEFG	ETFE Standard wall	FTUS-1209	29
Style 1333-VW-1	BCDEFG	FEP Standard wall	FTUS-1215	35
Style 1591	BCDEFG	FEP Standard wall	On request	-
Style 1736	BCDEFG	FEP Standard wall	On request	-
Style 1886	BCDEFG	FEP thin wall	On request	-
Style 1858	BF	PFA Standard wall	On request	-
Style 11537	BCDEFG	ETFE Standard wall	On request	-
Style 1828	BF	ETFE Standard wall	On request	-
Style 1643	Magnet wire	ETFE thin wall	On request	-
Style 1164	BCDEFG	PTFE	On request	-

Omerin Reference	conductor material*	Insulation	Datasheet	Page
SILIFLON® Fluoropolymer 150°C / 300 V – Double insulation				
Style 1666	BCDEFG	FEP Standard wall (2nd)	On request	-
SILIFLON® Fluoropolymer 150°C / 600 V				
Style 10210	BCDEFG	ETFE ultra thin wall	FTUS-1209	29
Style 10126-VW-1	BCDEFG	ETFE thin wall	FTUS-1215	35
Style 1644	BCDEFG	ETFE Standard wall	FTUS-1209	29
Style 1331	BCDEFG	FEP Standard wall	On request	-
Style 1737	BCDEFG	FEP Standard wall	On request	-
Style 1887	BCDFG	FEP Standard wall	On request	-
Style 1814	BCDEG	ETFE ultra thin wall	On request	-
Style 1857	BCDEFG	ETFE thin wall	On request	-
Style 11344	BCDEFG	ETFE thin wall	On request	-
Style 10211	BCDEFG	ETFE ultra thin wall	On request	-
Style 1644	Magnet wire	ETFE Standard wall	On request	-
Style 1829	BF	ETFE Standard wall	On request	-
Style 1859	BF	PFA Standard wall	On request	-
Style 1198	BCDEFG	PTFE	On request	-
SILIFLON® Fluoropolymer 150°C / 600 V – Double insulation				
Style 1667	BCDEFG	FEP Standard wall (2nd)	On request	-
SILIFLON® Fluoropolymer 150°C / 1,000 V				
Style 10358	BCDEFG	ETFE Standard wall	FTUS-1209	29
SILIFLON® Fluoropolymer 150°C / Pulse 10,000 V – ignition cables				
Style 10185-E150	BCDEFG	ETFE Standard wall	FTUS-1216	36
SILIFLON® Fluoropolymer 150°C / Pulse 20,000 V – ignition cables				
Style 1911-F150	BCDEFG	FEP Standard wall	FTUS-1216	36
SILIFLON® Fluoropolymer 200°C / Voltage not specified				
Style 1708	BCDEFG	PFA ultra thin wall	On request	-
Style 1723	BCDEFG	FEP thin wall	On request	-
SILIFLON® Fluoropolymer 200°C / 30 V				
Style 1707	BCDEFG	PFA ultra thin wall	On request	-
SILIFLON® Fluoropolymer 200°C / 125 V				
Style 1746	BCDEFG	PTFE	On request	-
SILIFLON® Fluoropolymer 200°C / 150 V				
Style 1860	BCDEFG	PFA Standard wall	On request	-
SILIFLON® Fluoropolymer 200°C / 300 V				
Style 10109	BCDEFG	ETFE thin wall	FTUS-1210	30
Style 1900	BCDEG	FEP Standard wall	FTUS-1210	30
Style 1332-VW-1	BCDEFG	FEP thick wall	FTUS-1215	35
Style 10969	BCDEFG	FEP Standard wall	On request	-
Style 1592	BCDEFG	FEP Standard wall	On request	-
Style 1738	BCDEFG	FEP Standard wall	On request	-
Style 11330	BCDEFG	FEP Standard wall	On request	-
Style 1848	Resistance wire	FEP Standard wall	On request	-
Style 1709	BCDEFG	PFA Standard wall	On request	-
SILIFLON® Fluoropolymer 200°C / 300 V – Double insulation				
Style 1668	BCDEFG	FEP Standard wall (2nd)	On request	-
SILIFLON® Fluoropolymer 200°C / 600 V				
Style 10086	BCDEFG	ETFE thin wall	FTUS-1210	30
Style 1901	BCDEFG	FEP Standard wall	FTUS-1210	30
Style 1330-VW-1	BCDEFG	FEP thick wall	FTUS-1215	35
Style 10588	BCDEFG	FEP thin wall	On request	-
Style 10970	BCDEFG	FEP thin wall	On request	-

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COMPLETE LIST OF UL APPROVED STYLES *AT OMERIN*

FLUOROPOLYMER *INSULATED WIRE*

Omerin Reference	conductor material*	Insulation	Datasheet	Page
Style 11331	BCDEFG	FEP thin wall	On request	-
Style 11332	BCDEFG	FEP thin wall	On request	-
Style 1739	BCDEFG	FEP Standard wall	On request	-
Style 1930	BCDEFG	PFA thick wall	On request	-
Style 1710	BCDEFG	PFA thick wall	On request	-
Style 1849	Resistance wire	FEP Standard wall	On request	-
Style 10144	Resistance wire	FEP Standard wall	On request	-
Style 10143	Resistance wire	PFA Standard wall	On request	-
SILIFLON® Fluoropolymer 200°C / 600 V – Double insulation				
Style 1669	BCDEFG	FEP Standard wall (2nd)	On request	-
SILIFLON® Fluoropolymer 200°C / 1,000 V				
Style 10203	BCDEFG	FEP Standard wall	**FTUS-1210**	**30**
Style 10048	BCDEG	FEP thick wall	**FTUS-1210**	**30**
SILIFLON® Fluoropolymer 200°C / Pulse 3,000 V – ignition cables				
Style 1813	BCDEFG	FEP Standard wall	**FTUS-1216**	**36**
SILIFLON® Fluoropolymer 200°C / Pulse 10,000 V – ignition cables				
Style 10185-E200	BCDEFG	ETFE Standard wall	**FTUS-1216**	**36**
SILIFLON® Fluoropolymer 250°C / 150 V				
Style 1933	CEG	PFA ultra thin wall	On request	-
SILIFLON® Fluoropolymer 250°C / 150 V				
Style 1882	CEG	PFA Standard wall	**FTUS-1211**	**31**
SILIFLON® Fluoropolymer 250°C / 300 V				
Style 10486	CEG	PFA Standard wall	**FTUS-1211**	**31**
Style 10410	CEG	MFA Standard wall	On request	-
Style 1726	CEG	PFA Standard wall	On request	-
Style 1929	CEG	PFA Standard wall	On request	-
SILIFLON® Fluoropolymer 250°C / 600 V				
Style 10362	CEG	PFA thin wall	**FTUS-1211**	**31**
Style 1727-VW-1	CEG	PFA Standard wall	**FTUS-1211**	**31**
Style 10297	CEG	MFA thin wall	On request	-
Style 10300	CEG	MFA Standard wall	On request	-
Style 10142	Resistance wire	MFA or PFA Standard wall	On request	-
Style 10506	CEG	PTFE	**FTUS-1212**	**32**
Style 1659	CEG	PTFE	On request	-
SILIFLON® Fluoropolymer 250°C / 1,000 V				
Style 10371	CEG	PFA thin wall	**FTUS-1211**	**31**
SILIFLON® Fluoropolymer 250°C / Pulse 20,000 V – ignition cables				
Style 1911-F250	CEG	MFA	**FTUS-1216**	**36**
SILIFLON® Fluoropolymer with reinforcing braid 150°C / 600 V				
Style 10935	BCDEFG	ETFE ultra thin wall	**FTUS-1213**	**33**
SILIFLON® Fluoropolymer with reinforcing braid 120°C / 600 V				
Style 11881	BCDEFG	FEP ultra thin wall	**FTUS-1214**	**34**

Legend
*Conducting metals

B = Tin plated copper
C = Nickel-plated copper
D = Silver-plated copper
E = Nickel
F = Bare copper
G = Nickel-plated copper 27%

CROSS LINKED ELASTOMER *INSULATED WIRE*

Omerin Reference	conductor material*	Datasheet	Page
SILICABLE® Silicone 150°C / 300 V			
Style 3132	BCDEFG	**FTUS-1202**	**22**
Style 3132-VW-1	BCDEFG	**FTUS-1206**	**26**
Style 3099	BCD	On request	-
Style 3140	BCDEFG	On request	-
SILICABLE® Silicone 150°C / 600 V			
Style 3529	BCDEFG	**FTUS-1202**	**22**
Style 3123	BCDEFG	On request	-
Style 3133	BCDEFG	On request	-
Style 3134	BCDEG	On request	-
Style 3134-VW-1	BCDEG	**FTUS-1206**	**26**
Style 3136	BCDEG	On request	-
Style 3137	BCDEG	On request	-
Style 3138	BCDEG	On request	-
Style 3113	B	On request	-
Style 3141	BCDEFG	On request	-
Style 3142	BCDEFG	On request	-
Style 3536	BCDEFG	On request	-
Style 3754	BCDEFG	On request	-
SILICABLE® Silicone 150°C / 1,000 V			
Style 3580	BCDEFG	**FTUS-1202**	**22**
SILICABLE® Silicone 200°C / 300 V			
Style 3367	BCDEG	**FTUS-1203**	**23**
SILICABLE® Silicone 200°C / 600 V			
Style 3135	BCDEFG	**FTUS-1203**	**23**
Style 3135-VW-1	BCDEFG	**FTUS-1206**	**26**
Style 3512	BCDEG	**FTUS-1203**	**23**
Style 3512-VW-1	BCDEG	**FTUS-1206**	**26**
Style 3139	BCDEG	On request	-
Style 3143	BCDEG	On request	-
Style 3268	BCDEFG	On request	-
Style 3530	BCDEFG	On request	-
Style 3755	BCDEFG	On request	-
SILICABLE® Silicone 200°C / 1,000 V			
Style 3572	BCDEFG	**FTUS-1203**	**23**
Style 3644	BCDEFG	On request	-
VARPREN® Varpren 125°C / 300 V			
Style 3266	BCDEFG	**FTUS-1105**	**16**
VARPREN® Varpren 125°C / 600 V			
Style 3271	BCDEFG	**FTUS-1105**	**16**
Style 3173	BCDEFG	On request	-
VARPREN® Varpren 150°C / 300 V			
Style 3398	BCDEFG	**FTUS-1201**	**21**
VARPREN® Varpren 150°C / 600 V			
Style 3289	BCDEFG	**FTUS-1201**	**21**
Style 3321	BCDEFG	On request	-
SILICABLE® Silicone with reinforcing braid 150°C / 300 V			
Style 3132	BCDEFG	**FTUS-1204**	**24**
Style 3068	BCDEFG	On request	-

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COMPOSITE INSULATED WIRE

Omerin Reference	conductor material*	Datasheet	Page
SILICABLE® Silicone with reinforcing braid 150°C / 600 V			
Style 3535	BCDF	FTUS-1204	24
Style 3069	BCDEFG	FTUS-1204	24
Style 3070	BCDEFG	On request	-
Style 3100	BCDEFG	On request	-
Style 3101	BCDFG	On request	-
Style 3113	B	On request	-
Style 3127	BCDG	On request	-
Style 3128	BCDG	On request	-
Style 3207	B	On request	-
Style 3208	BCDFG	On request	-
Style 3210	BCDEFG	On request	-
Style 3278	BCDEFG	On request	-
SILICABLE® Silicone with reinforcing braid 200°C / 300 V			
Style 3122	BCDEFG	FTUS-1205	25
Style 3122-VW-1	BCDEFG	FTUS-1205	25
SILICABLE® Silicone with reinforcing braid 200°C / 600 V			
Style 3513	BCD	FTUS-1205	25
Style 3513-VW-1	BCD	FTUS-1205	25
Style 3071	BCDEFG	On request	-
Style 3074	BCDEFG	On request	-
Style 3075	BCD	On request	-
Style 3125	BCDEFG	On request	-
Style 3126	BCDEFG	On request	-
Style 3144	BCDEG	On request	-
Style 3145	BCDEFG	On request	-
Style 3172	BCDEFG	On request	-
Style 3209	BCDEG	On request	-
SILICABLE® Silicone with reinforcing braid 200°C / 1,000 V			
Style 3645	BCDEFG	FTUS-1205	25
SILICOUL® Silicone with reinforcing braid 180°C / 1,100 V			
Style 3661	BCDFG	FTUS-1301	50
SILICOUL® Silicone with reinforcing braid 180°C / 4,200 V			
Style 3662	BCDFG	FTUS-1302	51
SILICOUL® Silicone with reinforcing braid 180°C / 7,200 V			
Style 3663	BCDFG	FTUS-1303	52
SILICOUL® Silicone with reinforcing braid 180°C / 15,000 V			
Style 3664	BCDFG	FTUS-1304	53
SILICOUL® Double silicone insulation 180°C / 1,100 V			
Style 3661	BCDFG	On request	-
SILICOUL® Double silicone insulation 180°C / 4,200 V			
Style 3662	BCDFG	On request	-
SILICOUL® Double silicone insulation 180°C / 7,200 V			
Style 3662	BCDFG	On request	-
SILICOUL® Double silicone insulation 180°C / 15,000 V			
Style 3663	BCDFG	On request	-

Omerin Reference	conductor material*	Datasheet	Page
SILICABLE® Silicone with reinforcing braid 200°C/ Pulse 10,000 V – ignition cables			
Style 3304	BF	FTUS-1208	28
Style 3573	BF	FTUS-1208	28
SILICABLE® Composite 250°C / 300 V			
Style 5257	CEG	FTUS-1217	37
Style 5167	CEG	On request	-
Style 5215	CEG	On request	-
SILICABLE® Composite 250°C / 600 V			
Style 5256	CEG	FTUS-1217	37
Style 5196	CEG	FTUS-1217	37
Style 5125	CEG	On request	-
Style 5035	CEG	On request	-
Style 5047	CEG	On request	-
Style 5214	CEG	On request	-
SILICABLE® Composite 350°C / 300 V			
Style 5294	EG	FTUS-1218	38
Style 5285	EG	On request	-
SILICABLE® Composite 350°C / 600 V			
Style 5304	EG	FTUS-1218	38
SILICABLE® Composite 450°C / 300 V			
Style 5168	EG	FTUS-1219	39
Style 5334	EG	On request	-
Style 5128	EG	On request	-
SILICABLE® Composite 450°C / 600 V			
Style 5107	EG	FTUS-1219	39
Style 5335	EG	On request	-
Style 5138	EG	On request	-

Legend
*Conducting metals

B = Tin plated copper
C = Nickel-plated copper
D = Silver-plated copper
E = Nickel
F = Bare copper
G = Nickel-plated copper 27%

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COMPLETE LIST OF UL APPROVED STYLES *AT OMERIN*

THERMOPLASTIC *MULTICONDUCTOR CABLE*

Omerin Reference	conductor material*	Datasheet	Page
PLASTHERM® PVC 60°C / 300 V			
Style 20871	BCDEFG	On request	-
Style 21061	BDF	On request	-
PLASTHERM® PVC 75°C / 600 V			
Style 21047	BF	On request	-
PLASTHERM® PVC 80°C / 300 V			
Style 2464	BCDEFG	FTUS-1106	17
Style 2610	BCDEFG	On request	-
Style 2655	BDF	On request	-
Style 20212	BCDEFG	On request	-
Style 20295	BCDEFG	On request	-
Style 21812	BCDEFG	On request	-
Style 21813	BCDEFG	On request	-
PLASTHERM® PVC 80°C / 600 V			
Style 2656	BCDEFG	On request	-
Style 2463	BCDEFG	On request	-
Style 20207	BCDEFG	On request	-
PLASTHERM® PVC 80°C / 600 V or 1,000 V			
Style 2570	BCDEFG	FTUS-1106	17
PLASTHERM® PVC 80°C / 1,000 V			
Style 21058	BCDEFG	On request	-
PLASTHERM® PVC 90°C / 300 V			
Style 2654	BCDEFG	FTUS-1107	18
Style 2549	BCDEFG	On request	-
Style 20132	BCDEFG	On request	-
PLASTHERM® PVC 90°C / 600 V			
Style 2587	BCDEFG	FTUS-1107	18
Style 2550	BCDEFG	On request	-
Style 2653	BCDEFG	On request	-
PLASTHERM® PVC 105°C / 30 V			
Style 2589	BCDEFG	On request	-
PLASTHERM® PVC 105°C / 300 V			
Style 2517	BCDEFG	FTUS-1108	19
Style 2661	BCDEFG	On request	-
PLASTHERM® PVC 105°C / 300 V – Flat cables			
Style 20903	BF	On request	-
Style 20214	BF	On request	-
PLASTHERM® PVC 105°C / 300 V – Twin lead wires			
Style 20199	BF	On request	-
PLASTHERM® PVC 105°C / 600 V			
Style 2662	BCDEFG	On request	-
Style 2501	BCDEFG	On request	-
Style 2516	BCDEFG	On request	-
Style 2907	BCDEFG	On request	-
Style 20155	BF	On request	-
Style 20213	BF	On request	-
Style 20811	BCDEFG	On request	-

Omerin Reference	conductor material*	Datasheet	Page
PLASTHERM® PVC 105°C / 600 V – Flat cables			
Style 20213	BF	On request	-
PLASTHERM® PVC 105°C / 600 V or 1,000 V			
Style 2586	BCDEFG	FTUS-1108	19
HIFLEX® TPU 80°C / 30 V – Instrumentation cables			
Style 20236	BCDEFG	On request	-
HIFLEX® TPU 80°C / 300 V – Instrumentation cables			
Style 20233	BCDEFG	On request	-
HIFLEX® TPU 80°C / 600 or 1,000 V – Power, Control or Instrumentation cables			
Style 20234	BCDEFG	On request	-
HIFLEX® TPU 90°C / 300 V – Instrumentation cables			
Style 20950	BCDEFG	On request	-
HIFLEX® TPU 90°C / 30, 90, 150, 300, 600 V – Power, Control or Instrumentation cables			
Style 20669	BCDEFG	On request	-
HIFLEX® TPU 105°C / 300 V – Instrum cables			
Style 20951	BCDEFG	FTUS-2105	60
HIFLEX® TPU 105°C / 600 V – Control & instrumentation cables			
Style 20952	BCDEFG	FTUS-2101, FTUS-2104	56, 59
HIFLEX® TPE 105°C / 600 V – Control & instrumentation cables			
Style 20863	BCDEFG	On request	-
HIFLEX® TPE 125°C / 300 V – Instrumentation cables			
Style 20237	BCDEFG	FTUS-2102	57
HIFLEX® TPE 125°C / 600 V – Control cables			
Style 20238	BCDEFG	FTUS-2103	58

Legend
*Conducting metals

B = Tin plated copper
C = Nickel-plated copper
D = Silver-plated copper
E = Nickel
F = Bare copper
G = Nickel-plated copper 27%

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FLUOROPOLYMER *MULTICONDUCTOR CABLE*

Omerin Reference	conductor material*	Jacket	Datasheet	Page
SILIFLON® Fluoropolymer 150°C / 30 V				
Style 20232	BCDEFG	FEP Standard wall	On request	-
SILIFLON® Fluoropolymer 150°C / 150 V				
Style 20920	BCDEFG	FEP thin or Standard wall	On request	-
SILIFLON® Fluoropolymer 150°C / 300 V				
Style 20221	BCDEFG	ETFE thin wall	**FTUS-1225**	**45**
Style 20905	BCDEFG	ETFE Standard wall	**FTUS-1225**	**45**
Style 2747	BCDEFG	FEP Standard wall	On request	-
Style 20229	BCDEFG	FEP Standard wall	On request	-
SILIFLON® Fluoropolymer 150°C / 600 V				
Style 20222	BCDEFG	ETFE thin wall	**FTUS-1225**	**45**
Style 2748	BCDEFG	FEP Standard wall	On request	-
Style 20230	BCDEFG	FEP thick wall	On request	-
SILIFLON® Fluoropolymer 200°C / 30 V				
Style 20371	BCDEFG	FEP Standard wall	On request	-
SILIFLON® Fluoropolymer 200°C / 150 V				
Style 20920	BCDEFG	FEP thin wall	On request	-
SILIFLON® Fluoropolymer 200°C / 300 V				
Style 20711	BCDEFG	FEP thin wall	**FTUS-1226**	**46**
Style 2749	BCDEFG	FEP Standard wall	**FTUS-1226**	**46**
Style 2895	BCDEFG	FEP thin wall	On request	-
Style 20262	BCDEFG	FEP Standard wall	On request	-
Style 20368	BCDEFG	FEP Standard wall	On request	-
SILIFLON® Fluoropolymer 200°C / 600 V				
Style 20710	BCDEFG	FEP thin wall	**FTUS-1226**	**46**
Style 2750	BCDEFG	FEP Standard wall	**FTUS-1226**	**46**
Style 20369	BCDEFG	FEP Standard wall	On request	-

SILICONE *MULTICONDUCTOR CABLE*

Omerin Reference	conductor material*	Jacket	Datasheet	Page
SILICABLE® Silicone 150°C / 600 V				
Style 4389-S150-VW-1	BCDEFG	Silicone	**FTUS-1224**	**44**
Style 4389-E150-VW-1	BCDEFG	ETFE thin or Standard wall	**FTUS-1224**	**44**
SILICABLE® Silicone 150°C / 300 V or 600 V or 1,000 V				
Style 4476-S150	BCDEFG	Silicone	**FTUS-1220**	**40**
Style 4476-E150	BCDEFG	ETFE thin or Standard wall	**FTUS-1222**	**42**
SILICABLE® Silicone 200°C / 600 V				
Style 4389-S200-VW-1	BCDEFG	Silicone	**FTUS-1224**	**44**
Style 4389-F200-VW-1	BCDEFG	FEP thin or Standard wall	**FTUS-1224**	**44**
SILICABLE® Silicone 200°C / 300 V or 600 V or 1,000 V				
Style 4476-S200	BCDEFG	Silicone	**FTUS-1221**	**41**
Style 4476-F200	BCDEFG	ETFE or FEP thin or Standard wall	**FTUS-1223**	**43**

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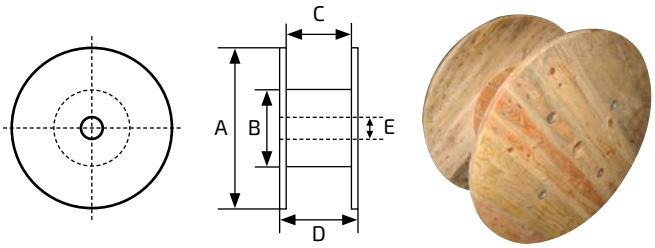
PACKAGING OF OUR PRODUCTS

REELS DIMENSIONS

Reel reference	Nature of flanges	Flange A (in)	Barrel B (in)	Traverse C (in)	Overall Width D (in)	Arbor E (in)
PR12-6	Plastic	12	5	6	7.5	1.5
WR14-7	Wood	14	5	7	8	1.5
WR16-8	Wood	16	8	8	8.5	1.5
WR18-10	Wood	18	8	10	10.5	1.5
WR24-10	Wood	24	10	10	11	1.5
WR30-12	Wood	30	10	12	13	1.5
WR30-18	Wood	30	10	18	19	1.5
WR36-14	Wood	36	17	14	14.5	2.5
WR36-17	Wood	36	14	17	-	-
WR36-24	Wood	36	18	24	27	2.5



THEORICAL REEL CAPACITY (ft) ACCORDING TO PRODUCT DIAMETER (in)

Cable Ø (in)	Maximum cable length on Reel (feet)									
	PR12-6	WR14-7	WR16-8	WR18-10	WR24-10	WR30-12	WR30-18	WR36-14	WR36-17	WR36-24
.040	15,659									
.045	12,372	22,902								
.050	10,022	18,551								
.055	8,282	15,331								
.060	6,959	12,883								
.065	5,930	10,977								
.070	5,113	9,465	36,746							
.075	4,454	8,245	29,033							
.080	3,915	7,246	23,517	42,758						
.085	3,468	6,419	19,436	35,338						
.090	3,093	5,726	16,331	29,693	59,387					
.095	2,776	5,139	13,915	25,301	50,602					
.100	2,505	4,638	11,999	21,816	43,631					
.110	2,071	3,833	10,452	19,004	38,007					
.120	1,740	3,221	9,186	16,703	33,405					
.130	1,482	2,744	8,137	14,795	29,591					
.140	1,278	2,366	7,258	13,197	26,394					
.150	1,114	2,061	6,514	11,844	23,689					
.160	979	1,812	5,879	10,690	21,379					
.170	867	1,605	4,859	8,834	17,669	37,767				
.180	773	1,431	4,083	7,423	14,847	31,735				
.190	694	1,285	3,479	6,325	12,650	27,040				
.200	626	1,159	3,000	5,454	10,908	23,315	34,973			
.210	568	1,052	2,613	4,751	9,502	20,310	30,465			
.220	518	958	2,297	4,176	8,351	17,851	26,776			
.230		877	2,034	3,699	7,398	15,812	23,719			
.240		805	1,815	3,299	6,599	14,104	21,157	20,858		
.250		742	1,629	2,961	5,922	12,659	18,988	18,720		
.260		686	1,470	2,672	5,345	11,425	17,137	16,895		
.270		636	1,333	2,424	4,848	10,362	15,544	15,324		
.280		592	1,215	2,209	4,417	9,442	14,163	13,962		
.290		551	1,111	2,021	4,041	8,639	12,958	12,775		
.300		515	1,021	1,856	3,712	7,934	11,901	11,732	15,775	15,441
.310			941	1,710	3,421	7,312	10,968	10,813	14,538	14,345
.320			870	1,581	3,163	6,760	10,140	9,997	13,441	13,362
.330			806	1,466	2,933	6,269	9,403	9,270	12,464	12,477
.340			750	1,363	2,727	5,829	8,743	8,620	11,589	11,678
.350			699	1,271	2,542	5,434	8,151	8,035	10,804	10,953
.360			653	1,188	2,375	5,078	7,616	7,509	10,096	10,294
.370			612	1,112	2,225	4,755	7,133	7,032	9,455	9,692
.380			574	1,044	2,088	4,463	6,694	6,599	8,873	9,142
.390			540	982	1,963	4,196	6,294	6,206	8,344	8,638
.400			509	925	1,849	3,953	5,930	5,846	7,860	8,174
.410				873	1,745	3,730	5,596	5,517	7,417	7,747
.420				825	1,650	3,526	5,289	5,214	7,011	7,353
.430				781	1,562	3,338	5,007	4,936	6,637	6,988
.440				740	1,481	3,165	4,747	4,680	6,292	6,649
.450				703	1,406	3,004	4,507	4,443	5,974	6,335
.460				668	1,336	2,856	4,284	4,224	5,679	6,042
.470				636	1,272	2,719	4,078	4,020	5,405	5,769
.480				606	1,212	2,591	3,886	3,831	5,151	5,514
.490				578	1,156	2,472	3,707	3,655	4,914	5,276
.500				552	1,104	2,360	3,541	3,491	4,693	5,053
.510				528	1,056	2,257	3,385	3,337	4,487	4,844

OTHER PACKAGING OPTIONS

Certain products (e.g. electric wires, sleevings, etc.) can be delivered in rolls (see illustration).
A roll features wounding of product (wire or sleeving), with or without cardboard support. The product is maintained by adhesive tapes or stretchable film. Some sleevings can be supplied in kit spool form. The flanges are made of cardboard and metal. Several spool dimensions are available (see illustration and table below).

Some sleevings can be supplied in kit spool form. The flanges are made of cardboard and metal. Several spool dimensions are available (see illustration and table below).

Rolls

Spool kit

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THEORICAL REEL CAPACITY (ft) ACCORDING
TO PRODUCT DIAMETER (in)

Cable Ø (in)	Maximum cable length on Reel (feet)									
	PR12-6	WR14-7	WR16-8	WR18-10	WR24-10	WR30-12	WR30-18	WR36-14	WR36-17	WR36-24
.520				505	1,010	2,160	3,239	3,194	4,294	4,648
.530					968	2,069	3,103	3,059	4,113	4,463
.540					928	1,983	2,975	2,933	3,944	4,289
.550					890	1,903	2,855	2,815	3,784	4,125
.560					855	1,828	2,742	2,703	3,634	3,970
.570					822	1,757	2,635	2,598	3,493	3,824
.580					791	1,690	2,535	2,499	3,360	3,686
.590					761	1,627	2,440	2,406	3,235	3,555
.600					733	1,567	2,351	2,318	3,116	3,431
.610					707	1,511	2,266	2,234	3,004	3,314
.620					682	1,457	2,186	2,155	2,897	3,202
.630					658	1,407	2,110	2,080	2,797	3,096
.640					636	1,358	2,038	2,009	2,701	2,995
.650					614	1,313	1,969	1,941	2,610	2,899
.660					594	1,269	1,904	1,877	2,524	2,807
.670					575	1,228	1,842	1,816	2,442	2,720
.680					556	1,189	1,783	1,758	2,364	2,637
.690					539	1,151	1,727	1,703	2,289	2,557
.700					522	1,116	1,674	1,650	2,218	2,482
.710					506	1,082	1,622	1,599	2,151	2,409
.720						1,049	1,574	1,551	2,086	2,339
.730						1,018	1,527	1,505	2,024	2,273
.740						988	1,482	1,461	1,965	2,209
.750						960	1,440	1,419	1,908	2,148
.760						933	1,399	1,379	1,854	2,090
.780						907	1,360	1,341	1,802	2,007
.800						882	1,322	1,304	1,753	1,930
.820						858	1,286	1,268	1,705	1,857
.840						835	1,252	1,234	1,659	1,788
.860						812	1,219	1,201	1,615	1,724
.880						791	1,187	1,170	1,573	1,662
.900						751	1,127	1,111	1,493	1,584
.920						714	1,071	1,056	1,420	1,510
.940						680	1,019	1,005	1,351	1,442
.960						648	971	958	1,288	1,379
.980						618	927	914	1,229	1,319
1,000						590	885	873	1,173	1,263
1,050						564	846	834	1,122	1,176
1,100						540	810	798	1,074	1,099

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Notes

Notes

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