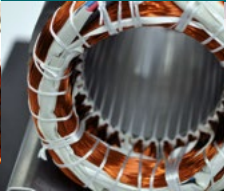


9

## BRAIDED INSULATING SLEEVINGS

**omerin**  
LES CABLES DE L'EXTREME

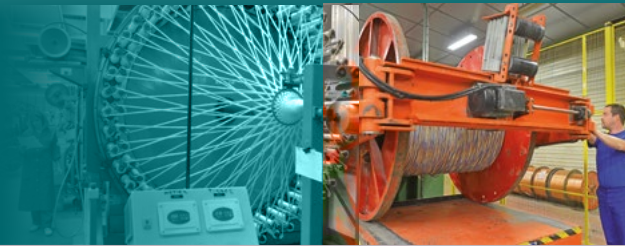


- The world's leading manufacturer of silicone-insulated wires and cables
- Europe's leading manufacturer of glass-yarn braids
- France's leading manufacturer of fire safety cables

**The Omerin group has been producing electrical cables for extreme conditions since 1959**

**At Omerin, we use our know-how and technology to develop increasingly high-performance products.**

**Our expertise is recognized in over 120 countries.**



Omerin offers a wide range of high-performance products covering a large number of applications in very diverse industries, including the electrothermal construction, electromechanical, chemical, nuclear energy, railway, automotive, naval, aerospace, heavy industry, power plant and other sectors.

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**HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION II: FLUOROPOLYMERS AND THERMOPLASTICS** 2

**HIGH TEMPERATURE WIRES AND CABLES FOR THE GENERAL MARKET SECTION III: COMPOSITE INSULATIONS** 3

**FIRE RESISTANT SAFETY CABLES** 4

**CABLE SOLUTIONS FOR ROLLING STOCK** 5

**CABLES FOR POWER STATIONS AND HIGH-RISK SITES** 6

**MARINE CABLES** 7

**PYROMETRY CABLES** 8

**BRAIDED INSULATING SLEEVINGS** 9

**HIGH TEMPERATURE MEDIUM VOLTAGE POWER CABLES** 10

**CABLE SOLUTIONS FOR AUTOMOTIVE AND E-MOBILITY** 11

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It is designed to be a simple and concise working tool for you, serving as a reference document that is able to meet the majority of your needs.

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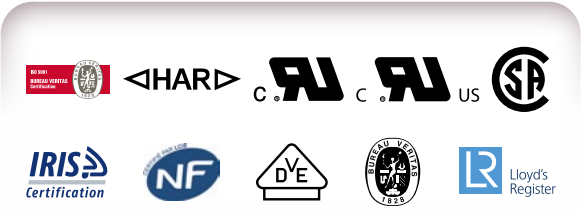
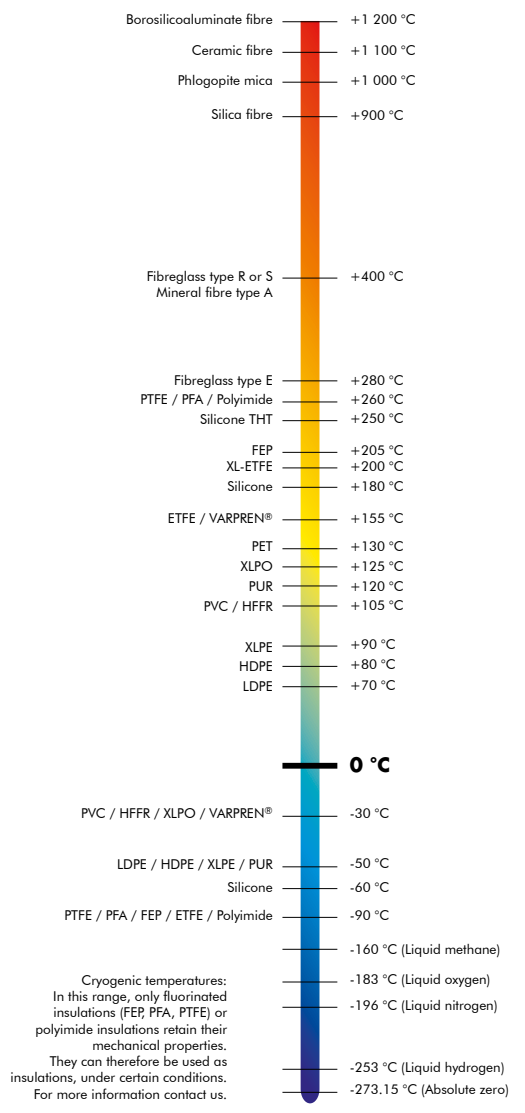
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|                       |   |
|-----------------------|---|
| <b>BIO-HABITAT®</b>   | Wires and cables for a home without electromagnetic interference  |
| <b>CERAFIL®</b>       | Miniature ceramic insulated wires for very high temperatures      |
| <b>COAXRAIL®</b>      | Coaxial cables for railway industry                               |
| <b>COAXTHERM®</b>     | High temperature coaxial cables                                   |
| <b>COUPLIX®</b>       | Pyrometry cables (thermocouples, extension, compensation cables)  |
| <b>DATARAIL®</b>      | Data cables for the railway industry                              |
| <b>ELECTROAIR®</b>    | Aerospace & Defence wires and cables                              |
| <b>ENERSYL®</b>       | Electrical cables for power station and high risk sites           |
| <b>FLEXBAT®</b>       | Extra flexible battery cables                                     |
| <b>LUMIPLAST®</b>     | Wires and cables for lighting systems                             |
| <b>METALTRESSE®</b>   | High performance metallic braids                                  |
| <b>MINOROC®</b>       | Very high tensile strength synthetic cables                       |
| <b>MULTIMAX®</b>      | Power, control and instrumentation cables for the marine industry |
| <b>MULTI-VX®</b>      | Hybrid data and power cables                                      |
| <b>ODIOSIS®</b>       | Sound, amplification and loudspeaker cables                       |
| <b>OILPLAST®</b>      | Cables for industrial environments and intrinsically safe system  |
| <b>OMBILIFLEX®</b>    | High performance special multi-function cables                    |
| <b>PLASTHERM®</b>     | Special thermoplastic insulated wires and cables                  |
| <b>POWER CONNECT®</b> | High performance power cords                                      |
| <b>PROFIPLAST®</b>    | Thermoplastic insulated wires and cables                          |
| <b>PYRISOL®</b>       | Fire resistant power cables for safety circuits                   |
| <b>PYRITEL®</b>       | Fire resistant communication cables for safety circuits           |
| <b>SILIBOX®</b>       | Wire and cables cardboard box packaging system                    |
| <b>SILICABLE®</b>     | Special high temperature wires and cables                         |
| <b>SILICOUL®</b>      | Low and medium voltage class H (180°C) power cables               |
| <b>SILIFLAM®</b>      | Very high safety cables for extreme temperatures                  |
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| <b>SILIGAINÉ®</b>     | Braided insulating sleeveings                                     |
| <b>SILIRAD®</b>       | Electron beam cross-linked cables                                 |
| <b>SILITUBE®</b>      | Braided or extruded tubes   |
| <b>SOLARPLAST®</b>    | Power cables for photovoltaic solar panels                        |
| <b>SONDIX®</b>        | Platinum resistance temperature sensors connection cables         |
| <b>SPIRFLEX®</b>      | High performance spiral cables                                    |
| <b>TEXALARM®</b>      | Cables for safety systems and fire alarms                         |
| <b>TS CABLES®</b>     | Coaxial and data cables   |
| <b>TS COM 900®</b>    | Telephonic cables for very speed reception                        |
| <b>TS LAN®</b>        | Copper LAN cables   |
| <b>TWINLINK®</b>      | High temperature controlled impedance twisted pair cables         |
| <b>TWINPLAST®</b>     | Extra flexible cables for battery chargers or jump starters       |
| <b>VARPREN®</b>       | Wires and cables with special cross-linked Varpren® insulation    |
| <b>VEROX®</b>         | Fiberglass braided seals  |
| <b>VIDEOCOAX®</b>     | Analogue and digital video cables                                 |



**Thermal classification of insulations**



# Contents

**ELECTRIC INSULATING SLEEVINGS  
CLASS F - ACRYLIC COATING**

**FT 9201 to 9203**

*Pages 10 to 12*

**ELECTRIC INSULATING SLEEVINGS  
CLASS H and C - SILICONE  
RUBBER COATING**

**FT 9301 to 9310**

*Pages 14 to 23*

**HIGH TEMPERATURE FIBREGLASS  
PROTECTIVE SLEEVINGS**

**FT 9401 to 9406**

*Pages 26 to 31*

**VERY HIGH TEMPERATURE  
PROTECTIVE SLEEVINGS**

**FT 9501 to 9503**

*Pages 34 to 36*

**OTHER PROTECTIVE SLEEVINGS**

**FT 9601 to 9604**

*Pages 38 to 41*

**SPECIAL SLEEVINGS  
AND OVEN SEALS**

**FT 9702 to 9703**

*Pages 44 to 45*

# Product list

## ELECTRIC INSULATING SLEEVINGS CLASS F - ACRYLIC COATING

| FT No. | PRODUCT REFERENCE      | PAGE |
|--------|------------------------|------|
| 9201   | SILIGAIN 16F2.....     | 10   |
| 9202   | SILIGAIN 16F3.....     | 11   |
| 9203   | SILIGAIN 16F7 UL ..... | 12   |

## ELECTRIC INSULATING SLEEVINGS CLASS H and C - SILICONE RUBBER COATING

| FT No. | PRODUCT REFERENCE             | PAGE |
|--------|-------------------------------|------|
| 9301   | SILIGAIN 15C2.....            | 14   |
| 9302   | SILIGAIN 15C3.....            | 15   |
| 9303   | SILIGAIN 15C3-UV .....        | 16   |
| 9304   | SILIGAIN 15C4.....            | 17   |
| 9305   | SILIGAIN 15C4.d.....          | 18   |
| 9306   | SILIGAIN 15C5.....            | 19   |
| 9307   | SILIGAIN 15C5-E.....          | 20   |
| 9308   | SILIGAIN 15C7 Grade A UL..... | 21   |
| 9309   | SILIGAIN 15C10.....           | 22   |
| 9310   | SILIGAIN 15C1.5.....          | 23   |

## HIGH TEMPERATURE FIBREGLASS PROTECTIVE SLEEVINGS

| FT No. | PRODUCT REFERENCE    | PAGE |
|--------|----------------------|------|
| 9401   | SILIGAIN 21F1.....   | 26   |
| 9402   | SILIGAIN 24C1 .....  | 27   |
| 9403   | SILIGAIN 31-1 .....  | 28   |
| 9404   | SILIGAIN 31C1E.....  | 29   |
| 9405   | SILIGAIN GT 1.....   | 30   |
| 9406   | SILIGAIN GTE 1 ..... | 31   |

## VERY HIGH TEMPERATURE PROTECTIVE SLEEVINGS

| FT No. | PRODUCT REFERENCE   | PAGE |
|--------|---------------------|------|
| 9501   | SILIGAIN 33SI.....  | 34   |
| 9502   | SILIGAIN GSIL ..... | 35   |
| 9503   | SILIGAIN 33NX.....  | 36   |

## OTHER PROTECTIVE SLEEVINGS

| FT No. | PRODUCT REFERENCE         | PAGE |
|--------|---------------------------|------|
| 9601   | SILIGAIN 22P1.....        | 38   |
| 9602   | SILIGAIN TN.....          | 39   |
| 9603   | SILIGAIN TN-FR .....      | 40   |
| 9604   | SILIGAIN TN-FR TWIST..... | 41   |

## SPECIAL SLEEVINGS AND OVEN SEALS

| FT No. | PRODUCT REFERENCE | PAGE |
|--------|-------------------|------|
| 9702   | SILITUBE X.....   | 44   |
| 9703   | VEROX .....       | 45   |





**ELECTRIC INSULATING  
SLEEVINGS CLASS F  
ACRYLIC COATING**

| FT No. | PRODUCT REFERENCE | APPROVAL  | PAGE |
|--------|-------------------|---|------|
| 9201   | SILIGAINÉ 16F2    |  | 10   |
| 9202   | SILIGAINÉ 16F3    |  | 11   |
| 9203   | SILIGAINÉ 16F7 UL |  | 12   |

## BRAIDED INSULATING SLEEVINGS

ELECTRIC INSULATING SLEEVINGS CLASS F  
ACRYLIC COATING**SILIGAINÉ® 16F2**  
-30°C to +155°C  
Class FFIBREGLASS BRAIDED SLEEVING  
WITH ACRYLIC COATING**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 405.
- UL approval, category UZKX2: meets the requirements of the horizontal flame test File no.: E310331.

**Applications**

- Internal cabling for rotating and static machines, classes B and F (motors, alternators, generators, transformers, inductors, etc.).
- Sheathing of cable harnesses, all insulations classes B and F.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
  - Diameters from 5 to 10 mm: 100 m rolls.
  - Diameters from 12 to 20 mm: 50 m rolls.
  - Diameters from 22 to 25 mm: 25 m rolls.

**Characteristics****General**

- Continuous operating temperature: -30 °C to +155 °C.
- Good resistance to humidity and common chemical environments.
- Compatible with most impregnation varnishes class F.
- Flame retardant as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry):
  - Central value: 1.8 kV.
  - Lowest value: 1.2 kV.

**Standard products**

- Colour: yellow.

## INTERNAL DIAMETER

## 16F2

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.20         | 0.20                        | 1.7                               |
| 0.8                | ± 0.20         | 0.20                        | 2.2                               |
| 1                  | ± 0.25         | 0.20                        | 2.5                               |
| 1.5                | ± 0.25         | 0.20                        | 3.4                               |
| 2                  | ± 0.25         | 0.20                        | 4.4                               |
| 2.5                | ± 0.25         | 0.20                        | 5.4                               |
| 3                  | ± 0.25         | 0.20                        | 6.5                               |
| 3.5                | ± 0.30         | 0.20                        | 7.6                               |
| 4                  | ± 0.30         | 0.30                        | 8.8                               |
| 4.5                | ± 0.30         | 0.30                        | 10.0                              |
| 5                  | ± 0.30         | 0.30                        | 11.3                              |
| 6                  | ± 0.30         | 0.30                        | 14.1                              |
| 7                  | ± 0.40         | 0.30                        | 17.1                              |
| 8                  | ± 0.40         | 0.30                        | 20.3                              |
| 9                  | ± 0.50         | 0.30                        | 23.7                              |
| 10                 | ± 0.50         | 0.40                        | 27.4                              |
| 12                 | ± 1.0          | 0.40                        | 35.5                              |
| 14                 | ± 1.0          | 0.40                        | 44.5                              |
| 16                 | ± 1.0          | 0.40                        | 61.4                              |
| 18                 | ± 1.0          | 0.40                        | 77.5                              |
| 20                 | ± 1.0          | 0.40                        | 100                               |
| 22                 | ± 1.5          | 0.40                        | 130                               |
| 25                 | ± 2.0          | 0.50                        | 142                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

For this product, please contact:

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**OMERIN**  
LES CABLES DE L'EXTREME

## BRAIDED INSULATING SLEEVINGS

**SILIGAINÉ® 16F3****-30°C to +155°C****Class F**FIBREGLASS BRAIDED SLEEVING  
WITH ACRYLIC COATING**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 404.
- VERITAS approval certificate No. 153626.
  - UL approval, category UZKX2: meets the requirements of the horizontal flame test File no.: E310331.

**Applications**

- Internal cabling for rotating and static machines, classes B and F (motors, alternators, generators, transformers, inductors, etc.).
- Sheathing of cable harnesses, all insulations classes B and F.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleeveings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m spools.
- Diameters from 5 to 13 mm: 100 m spools.
- Diameters from 14 to 22 mm: 50 m spools.
- Diameter 25 mm: 25 m spools.

For this product, please contact:

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LES CABLES DE L'EXTREME
ELECTRIC INSULATING SLEEVINGS CLASS F  
ACRYLIC COATING**Characteristics****General**

- Continuous operating temperature: -30 °C to +155 °C.
- Good resistance to humidity and common chemical environments.
- Compatible with most impregnation varnishes class F.
- Flame retardant as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry):
  - Central value: 3.3 kV.
  - Lowest value: 2.5 kV.

**Standard products**

- Colour: yellow.

## INTERNAL DIAMETER

## 16F3

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.20         | 0.20                        | 2.0                               |
| 0.8                | ± 0.20         | 0.20                        | 2.7                               |
| 1                  | ± 0.25         | 0.20                        | 3.2                               |
| 1.5                | ± 0.25         | 0.20                        | 4.5                               |
| 2                  | ± 0.25         | 0.20                        | 5.8                               |
| 2.5                | ± 0.25         | 0.20                        | 7.2                               |
| 3                  | ± 0.25         | 0.20                        | 8.6                               |
| 3.5                | ± 0.30         | 0.20                        | 10.0                              |
| 4                  | ± 0.30         | 0.30                        | 11.6                              |
| 4.5                | ± 0.30         | 0.30                        | 13.1                              |
| 5                  | ± 0.30         | 0.30                        | 14.8                              |
| 6                  | ± 0.30         | 0.30                        | 18.2                              |
| 7                  | ± 0.40         | 0.30                        | 21.8                              |
| 8                  | ± 0.40         | 0.30                        | 25.7                              |
| 9                  | ± 0.50         | 0.40                        | 27.5                              |
| 10                 | ± 0.50         | 0.40                        | 31.0                              |
| 12                 | ± 1.0          | 0.50                        | 43.2                              |
| 14                 | ± 1.0          | 0.60                        | 56.2                              |
| 16                 | ± 1.0          | 0.70                        | 70.2                              |
| 18                 | ± 1.0          | 0.70                        | 85.0                              |
| 20                 | ± 1.0          | 0.80                        | 105                               |
| 22                 | ± 1.5          | 0.80                        | 133                               |
| 25                 | ± 2.0          | 0.80                        | 145                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

# SILIGAINÉ® 16F7 UL

## -30 °C to +155 °C

### Class F

FIBREGLASS BRAIDED SLEEVING  
WITH ACRYLIC COATING

ELECTRIC INSULATING SLEEVINGS CLASS F  
ACRYLIC COATING



#### Standards\*

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 403.
- UL approval 1441, category UZFT2 and CSA C22.2 no. 198.3, category UZFT8: Grade A acrylic coated fiberglass sleeving File no.: E189100.

#### Applications

- Internal cabling for rotating and static machines, classes B and F (motors, alternators, generators, transformers, inductors, etc.).
- Sheathing of cable harnesses, all insulations classes B and F.

#### Options

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

#### Packaging

- Diameters from 0.5 to 1.5 mm: 200 m rolls.
- Diameters from 2 to 4.5 mm: 100 m rolls.
  - Diameters from 5 to 16 mm: 50 m rolls.

#### Characteristics

##### General

- Continuous operating temperature: -30 °C to +155 °C.
- Good resistance to humidity and common chemical environments.
- Compatible with most impregnation varnishes class F.
- Flame retardant as per standard UL 1441.
- Grade A as per UL 1441.
- Very good flexibility.
- Halogen-free.

##### Electrical

- Dielectric strength (dry):
  - Central value: 7 kV.
  - Lowest value: 5 kV.

#### Standard products

- Colour: yellow.

#### INTERNAL DIAMETER

#### 16F7 UL

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.20         | 0.25                        | 1.4                               |
| 0.8                | ± 0.20         | 0.25                        | 2.3                               |
| 1                  | ± 0.25         | 0.25                        | 2.9                               |
| 1.5                | ± 0.25         | 0.35                        | 4.5                               |
| 2                  | ± 0.25         | 0.35                        | 6.1                               |
| 2.5                | ± 0.25         | 0.40                        | 7.7                               |
| 3                  | ± 0.25         | 0.40                        | 9.4                               |
| 3.5                | ± 0.30         | 0.40                        | 11.2                              |
| 4                  | ± 0.30         | 0.50                        | 13.0                              |
| 4.5                | ± 0.30         | 0.50                        | 14.9                              |
| 5                  | ± 0.30         | 0.50                        | 16.8                              |
| 6                  | ± 0.30         | 0.50                        | 20.9                              |
| 7                  | ± 0.40         | 0.50                        | 25.1                              |
| 8                  | ± 0.40         | 0.50                        | 29.6                              |
| 9                  | ± 0.50         | 0.65                        | 34.3                              |
| 10                 | ± 0.50         | 0.65                        | 39.3                              |
| 12                 | ± 1.0          | 0.65                        | 49.8                              |
| 14                 | ± 1.0          | 0.65                        | 61.3                              |
| 16                 | ± 1.0          | 0.65                        | 73.6                              |

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\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## ELECTRIC INSULATING SLEEVINGS CLASS H and C - SILICONE RUBBER COATING

| FT No.      | PRODUCT REFERENCE         | APPROVAL  | PAGE |
|-------------|---------------------------|---|------|
| <b>9301</b> | SILIGAINÉ 15C2            |  | 14   |
| <b>9302</b> | SILIGAINÉ 15C3            |  | 15   |
| <b>9303</b> | SILIGAINÉ 15C3-UV         |  | 16   |
| <b>9304</b> | SILIGAINÉ 15C4            |  | 17   |
| <b>9305</b> | SILIGAINÉ 15C4.d          |   | 18   |
| <b>9306</b> | SILIGAINÉ 15C5            |   | 19   |
| <b>9307</b> | SILIGAINÉ 15C5-E          |   | 20   |
| <b>9308</b> | SILIGAINÉ 15C7 Grade A UL |  | 21   |
| <b>9309</b> | SILIGAINÉ 15C10           |   | 22   |
| <b>9310</b> | SILIGAINÉ 15C1.5          |  | 23   |

## BRAIDED INSULATING SLEEVINGS

ELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**SILIGAINÉ® 15C2****-60 °C to +250 °C****Classes H and C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 402.
- UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1. File no.: E212701.

**Applications**

- Internal cabling for rotating machines classes H and C (motors, alternators, generators, transformers, inductors, etc.).
  - All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
  - Diameter 5 mm: 100 m rolls.
- Diameters from 6 to 16 mm: 100 m spools.
- Diameters from 18 to 30 mm: 50 m spools.

For this product, please contact:

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**omerin**  
LES CABLES DE L'EXTREME**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): 2.5 kV.

**Standard products**

- Colour : brick red.

## INTERNAL DIAMETER

## 15C2

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.20                        | 2.4                               |
| 0.8                | ± 0.15         | 0.20                        | 3.0                               |
| 1                  | ± 0.20         | 0.20                        | 3.4                               |
| 1.5                | ± 0.20         | 0.20                        | 4.5                               |
| 2                  | ± 0.20         | 0.25                        | 5.7                               |
| 2.5                | ± 0.20         | 0.25                        | 6.9                               |
| 3                  | ± 0.20         | 0.25                        | 8.2                               |
| 3.5                | ± 0.25         | 0.25                        | 9.5                               |
| 4                  | ± 0.25         | 0.30                        | 11.0                              |
| 4.5                | ± 0.25         | 0.30                        | 12.4                              |
| 5                  | ± 0.25         | 0.30                        | 14.0                              |
| 6                  | ± 0.25         | 0.35                        | 17.2                              |
| 7                  | ± 0.25         | 0.35                        | 20.7                              |
| 8                  | ± 0.25         | 0.35                        | 24.4                              |
| 9                  | ± 0.50         | 0.45                        | 28.4                              |
| 10                 | ± 0.50         | 0.45                        | 32.7                              |
| 12                 | ± 0.50         | 0.45                        | 54.0                              |
| 14                 | ± 1.0          | 0.45                        | 73.6                              |
| 16                 | ± 1.0          | 0.55                        | 91.8                              |
| 18                 | ± 1.0          | 0.65                        | 110.0                             |
| 20                 | ± 1.0          | 0.70                        | 129.0                             |
| 25                 | ± 1.0          | 0.90                        | 154.0                             |
| 30                 | ± 2.0          | 1.00                        | 193.0                             |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

**SILIGAINÉ® 15C3****-60 °C to +250 °C****Classes H and C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 401.
- VERITAS approval certificate No. 153626.
  - UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1. (diameters from 0.5 to 16 mm) File no.: E212701.

**Applications**

- Internal cabling for rotating machines classes H and C (motors, alternators, generators, transformers, inductors, etc.).
  - All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
  - Other colours: contact us.
- Aluminised silicone coating: SILIGAINÉ® 15C3 ALU.
  - Sleevings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
  - Diameter 5 mm: 100 m rolls.
- Diameters from 6 to 16 mm: 100 m spools.
- Diameters from 18 to 22 mm: 50 m spools.
- Diameters from 25 to 40 mm: 25 m spools.
  - Diameters > 40 mm: 20 m spools.

For this product, please contact:

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omerin@omerin.com**OMERIN division silisol** BP 87 - ZI du Devey - F 42000 Saint-Etienne  
Tel. +33 (0)4 77 81 36 00 - Fax +33 (0)4 77 81 37 00  
silisol@omerin.comELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 3 kV.

**Standard products**

- Colour : brick red.

## INTERNAL DIAMETER

## 15C3

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.20                        | 2.4                               |
| 0.8                | ± 0.15         | 0.20                        | 3.0                               |
| 1                  | ± 0.20         | 0.20                        | 3.4                               |
| 1.5                | ± 0.20         | 0.20                        | 4.5                               |
| 2                  | ± 0.20         | 0.25                        | 5.7                               |
| 2.5                | ± 0.20         | 0.25                        | 6.9                               |
| 3                  | ± 0.20         | 0.25                        | 8.2                               |
| 3.5                | ± 0.25         | 0.25                        | 9.6                               |
| 4                  | ± 0.25         | 0.30                        | 11.1                              |
| 4.5                | ± 0.25         | 0.30                        | 12.6                              |
| 5                  | ± 0.25         | 0.30                        | 14.2                              |
| 6                  | ± 0.25         | 0.40                        | 17.5                              |
| 7                  | ± 0.25         | 0.40                        | 21.1                              |
| 8                  | ± 0.25         | 0.40                        | 24.9                              |
| 9                  | ± 0.50         | 0.50                        | 29.0                              |
| 10                 | ± 0.50         | 0.50                        | 33.3                              |
| 12                 | ± 0.50         | 0.50                        | 54.6                              |
| 14                 | ± 1.0          | 0.50                        | 77.2                              |
| 16                 | ± 1.0          | 0.60                        | 92.7                              |
| 18                 | ± 1.0          | 0.75                        | 112                               |
| 20                 | ± 1.0          | 0.75                        | 134                               |
| 22                 | ± 1.0          | 0.90                        | 158                               |
| 25                 | ± 1.0          | 0.90                        | 197                               |
| 30                 | ± 2.0          | 1.00                        | 267                               |
| 35                 | ± 2.0          | 1.10                        | 327                               |
| 40                 | ± 3.0          | 1.30                        | 389                               |
| 45                 | ± 4.0          | 1.50                        | 480                               |
| 50                 | ± 5.0          | 1.60                        | 580                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

**SILIGAINÉ® 15C3-UV****-60 °C to +250 °C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING  
RESISTANCE TO UV RAYSELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 401.
- Certificate of resistance to UV  
CNEP no. NS JR 2011-557.

**Applications**

- Protection of cables, wiring harnesses, etc.  
against UV radiation.

This sleeving has been developed specially  
for lasting protection in normal outside conditions.

**Options**

- Other diameters: contact us.
- Sleeveings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
  - Diameter 5 mm: 100 m rolls.
- Diameters from 6 to 16 mm: 100 m spools.
- Diameters from 18 to 22 mm: 50 m spools.
- Diameters from 25 to 40 mm: 25 m spools.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV (direct exposure, outside conditions).
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 3 kV.

**Standard products**

- Colour : brick red.

**INTERNAL DIAMETER****15C3-UV**

| Nominal value<br>(mm) | Tolerance<br>(mm) | Minimum<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-----------------------|-------------------|-----------------------------------|---|
| 0.5                   | ± 0.15            | 0.20                              | 2.4                                     |
| 0.8                   | ± 0.15            | 0.20                              | 3.0                                     |
| 1                     | ± 0.20            | 0.20                              | 3.4                                     |
| 1.5                   | ± 0.20            | 0.20                              | 4.5                                     |
| 2                     | ± 0.20            | 0.20                              | 5.7                                     |
| 2.5                   | ± 0.20            | 0.20                              | 6.9                                     |
| 3                     | ± 0.20            | 0.20                              | 8.2                                     |
| 3.5                   | ± 0.25            | 0.20                              | 9.6                                     |
| 4                     | ± 0.25            | 0.30                              | 11.1                                    |
| 4.5                   | ± 0.25            | 0.30                              | 12.6                                    |
| 5                     | ± 0.25            | 0.30                              | 14.2                                    |
| 6                     | ± 0.25            | 0.30                              | 17.5                                    |
| 7                     | ± 0.25            | 0.30                              | 21.1                                    |
| 8                     | ± 0.25            | 0.30                              | 24.9                                    |
| 9                     | ± 0.50            | 0.30                              | 29.0                                    |
| 10                    | ± 0.50            | 0.40                              | 33.3                                    |
| 12                    | ± 0.50            | 0.40                              | 54.6                                    |
| 14                    | ± 1.0             | 0.40                              | 77.2                                    |
| 16                    | ± 1.0             | 0.40                              | 92.7                                    |
| 18                    | ± 1.0             | 0.40                              | 112                                     |
| 20                    | ± 1.0             | 0.40                              | 134                                     |
| 22                    | ± 1.0             | 0.40                              | 158                                     |
| 25                    | ± 1.0             | 0.40                              | 197                                     |
| 30                    | ± 2.0             | 0.40                              | 267                                     |
| 35                    | ± 2.0             | 0.40                              | 327                                     |
| 40                    | ± 2.0             | 0.40                              | 389                                     |

For this product, please contact:

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\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

ELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**SILIGAINÉ® 15C4****-60 °C to +250 °C**  
**Classes H and C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 400 to 402.
- UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1. (diameters from 0.5 to 16 mm)  
File no.: E212701.

**Applications**

- Internal cabling for rotating machines classes H and C (motors, alternators, generators, transformers, inductors, etc.).
- All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Aluminised silicone coating: 15C4 ALU ref, contact us
- More flexible sleeving (thin walls): SILIGAINÉ® 15C4L.
- Other diameters: contact us.
- Other colours: contact us.
- Sleeveings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m spools.
- Diameters from 5 to 16 mm: 100 m spools.
- Diameters from 18 to 22 mm: 50 m spools.
- Diameters from 25 to 40 mm: 25 m spools.
- Diameters > 40 mm: 20 m spools.

For this product, please contact:

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silisol@omerin.com**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 4 kV.

**Standard products**

- Colours: brick red or black.

## INTERNAL DIAMETER

## 15C4

| Nominal value (mm) | Tolerance (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|---------------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.25                            | 3.3                               |
| 0.8                | ± 0.15         | 0.25                            | 3.9                               |
| 1                  | ± 0.20         | 0.25                            | 4.2                               |
| 1.5                | ± 0.20         | 0.25                            | 5.2                               |
| 2                  | ± 0.20         | 0.30                            | 6.3                               |
| 2.5                | ± 0.20         | 0.30                            | 7.4                               |
| 3                  | ± 0.20         | 0.30                            | 8.6                               |
| 3.5                | ± 0.25         | 0.30                            | 9.9                               |
| 4                  | ± 0.25         | 0.40                            | 11.3                              |
| 4.5                | ± 0.25         | 0.40                            | 12.8                              |
| 5                  | ± 0.25         | 0.40                            | 14.3                              |
| 6                  | ± 0.25         | 0.40                            | 17.6                              |
| 7                  | ± 0.25         | 0.50                            | 21.2                              |
| 8                  | ± 0.25         | 0.50                            | 25.2                              |
| 9                  | ± 0.50         | 0.50                            | 29.4                              |
| 10                 | ± 0.50         | 0.50                            | 34.0                              |
| 12                 | ± 0.50         | 0.50                            | 56.9                              |
| 14                 | ± 1.0          | 0.50                            | 74.0                              |
| 16                 | ± 1.0          | 0.70                            | 100                               |
| 18                 | ± 1.0          | 0.85                            | 123                               |
| 20                 | ± 1.0          | 0.85                            | 147                               |
| 22                 | ± 1.0          | 0.95                            | 171                               |
| 25                 | ± 1.0          | 0.95                            | 207                               |
| 30                 | ± 2.0          | 1.00                            | 272                               |
| 35                 | ± 2.0          | 1.10                            | 358                               |
| 40                 | ± 3.0          | 1.30                            | 455                               |
| 45                 | ± 4.0          | 1.50                            | 570                               |
| 50                 | ± 5.0          | 1.60                            | 670                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

ELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**SILIGAINÉ® 15C4.d****-60 °C to +200 °C****Class H**1<sup>st</sup> FIBREGLASS BRAID  
WITH SILICONE RUBBER COATING  
2<sup>nd</sup> FIBREGLASS BRAID  
WITH ACRYLIC COATING**Standards\***

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 400 to 402.

**Applications**

- Internal cabling for rotating machines class H (motors, alternators, generators, transformers, inductors, etc.).
- All insulations up to 200 °C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

**Packaging**

- Diameters from 4 to 10 mm: 100 m spools.
- Diameters from 12 to 16 mm: 50 m spools.
- Diameters from 18 to 22 mm: 25 m spools.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +200 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Very good resistance to abrasion.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 4 kV.

**Standard products**

- Colour: black.

| INTERNAL DIAMETER  |                | 15C4.d   |  |   |
|--------------------|----------------|--|--|---|
| Nominal value (mm) | Tolerance (mm) | 1 <sup>st</sup> braid<br>Approximate<br>wall thickness<br>(mm) | 2 <sup>nd</sup> braid<br>Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
| 4                  | ± 0.25         | 0.60   | 0.45   | 8.1                                     |
| 6                  | ± 0.25         | 0.60   | 0.45   | 19.9                                    |
| 8                  | ± 0.25         | 0.60   | 0.45   | 37.0                                    |
| 10                 | ± 0.50         | 0.80   | 0.45   | 59.3                                    |
| 12                 | ± 0.50         | 0.80   | 0.45   | 86.8                                    |
| 14                 | ± 1.0          | 0.80   | 0.45   | 120                                     |
| 16                 | ± 1.0          | 0.90   | 0.50   | 158                                     |
| 18                 | ± 1.0          | 1.00   | 0.50   | 201                                     |
| 20                 | ± 1.0          | 1.00   | 0.60   | 249                                     |
| 22                 | ± 1.0          | 1.00   | 0.60   | 303                                     |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

For this product, please contact:

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## BRAIDED INSULATING SLEEVINGS

ELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**SILIGAINÉ® 15C5****-60 °C to +250 °C****Classes H and C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 400.

**Applications**

- Internal cabling for class H and C rotating machines (motors, alternators, generators, transformers, inductors, etc.).
- All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleeveings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
  - Diameter 5 mm: 100 m rolls.
- Diameters from 6 to 14 mm: 100 m spools.
- Diameters from 16 to 22 mm: 50 m spools.
  - Diameter 25 mm: 25 m spools.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 5 kV.

**Standard products**

- Colour : brick red.

## INTERNAL DIAMETER

## 15C5

| Nominal value (mm) | Tolerance (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|---------------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.50                            | 3.7                               |
| 0.8                | ± 0.15         | 0.50                            | 4.2                               |
| 1                  | ± 0.20         | 0.50                            | 4.7                               |
| 1.5                | ± 0.20         | 0.50                            | 5.7                               |
| 2                  | ± 0.20         | 0.50                            | 6.9                               |
| 2.5                | ± 0.20         | 0.50                            | 8.2                               |
| 3                  | ± 0.20         | 0.50                            | 9.5                               |
| 3.5                | ± 0.25         | 0.50                            | 10.9                              |
| 4                  | ± 0.25         | 0.60                            | 12.4                              |
| 4.5                | ± 0.25         | 0.60                            | 14.0                              |
| 5                  | ± 0.25         | 0.60                            | 15.7                              |
| 6                  | ± 0.25         | 0.60                            | 19.4                              |
| 7                  | ± 0.25         | 0.60                            | 23.3                              |
| 8                  | ± 0.50         | 0.60                            | 27.7                              |
| 9                  | ± 0.50         | 0.80                            | 32.3                              |
| 10                 | ± 0.50         | 0.80                            | 37.3                              |
| 12                 | ± 1.0          | 0.80                            | 62.5                              |
| 14                 | ± 1.0          | 0.80                            | 80.8                              |
| 16                 | ± 1.0          | 0.90                            | 101                               |
| 18                 | ± 1.0          | 1.00                            | 124                               |
| 20                 | ± 1.0          | 1.00                            | 148                               |
| 22                 | ± 1.0          | 1.00                            | 174                               |
| 25                 | ± 1.0          | 1.20                            | 217                               |

For this product, please contact:

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\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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**OMERIN**  
LES CABLES DE L'EXTREME

## BRAIDED INSULATING SLEEVINGS

**SILIGAINÉ® 15C5-E**

**Expandable**  
**-60°C to +250°C**  
**Classes H and C**

FIBREGLASS BRAIDED SLEEVING  
 WITH SILICONE RUBBER COATING

**Standards\***

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 400 to 402.

**Applications**

- Internal cabling for rotating machines classes H and C (motors, alternators, generators, transformers, inductors, etc.).
  - All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 1.5 mm: 200 m rolls.
- Diameters from 2 to 4 mm: 100 m rolls.
- Diameters from 5 to 16 mm: 50 m rolls.

ELECTRIC INSULATING SLEEVINGS CLASS H and C  
 SILICONE RUBBER COATING

**Characteristics****General**

- Continuous operating temperature: -60°C to +250°C.
- Expandable up to about twice the nominal diameter.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 5 kV.

**Standard products**

- Colour: black.

## INTERNAL DIAMETER

## 15C5-E

| Nominal value (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|-----------------------------|-----------------------------------|
| 0.5                | 0.25                        | 2.6                               |
| 1                  | 0.25                        | 5.1                               |
| 1.5                | 0.35                        | 7.7                               |
| 2                  | 0.35                        | 10.2                              |
| 2.5                | 0.40                        | 12.7                              |
| 3                  | 0.40                        | 15.2                              |
| 4                  | 0.50                        | 20.1                              |
| 5                  | 0.50                        | 24.9                              |
| 6                  | 0.50                        | 29.6                              |
| 7                  | 0.50                        | 34.2                              |
| 8                  | 0.50                        | 38.7                              |
| 10                 | 0.65                        | 47.6                              |
| 12                 | 0.65                        | 56.0                              |
| 14                 | 0.65                        | 64.1                              |
| 16                 | 0.65                        | 71.9                              |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

For this product, please contact:

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## BRAIDED INSULATING SLEEVINGS

# SILIGAINÉ® 15C7

## Grade A UL

-60°C to +250°C

### Classes H and C

FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING

#### Standards\*

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 400 to 402.
- UL approval 1441, category UZFT2 and CSA C22.2 no. 198.3, category UZFT8: Grade A silicone coated fiberglass sleeving File no.: E189100.

#### Applications

- Internal cabling for class H and C rotating machines (motors, alternators, generators, transformers, inductors, etc.).
- All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

#### Options\*

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

#### Packaging

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
- Diameters from 5 to 14 mm: 100 m rolls.
- Diameter 16 to 25 mm: 50 m rolls.

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ELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING



#### Characteristics

##### General

- Continuous operating temperature: -60°C to +250°C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Grade A as per UL 1441.
- Very good flexibility.
- Halogen-free.

##### Electrical

- Dielectric strength (dry): > 7 kV.

#### Standard products

- Colour : brick red or black.

#### INTERNAL DIAMETER

#### 15C7 Grade A UL

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.25                        | 1.9                               |
| 0.8                | ± 0.15         | 0.25                        | 3.0                               |
| 1                  | ± 0.20         | 0.25                        | 3.8                               |
| 1.5                | ± 0.20         | 0.35                        | 5.7                               |
| 2                  | ± 0.20         | 0.35                        | 7.7                               |
| 2.5                | ± 0.20         | 0.40                        | 9.7                               |
| 3                  | ± 0.20         | 0.40                        | 11.7                              |
| 3.5                | ± 0.25         | 0.50                        | 13.8                              |
| 4                  | ± 0.25         | 0.50                        | 16.0                              |
| 4.5                | ± 0.25         | 0.50                        | 18.1                              |
| 5                  | ± 0.25         | 0.50                        | 20.3                              |
| 6                  | ± 0.25         | 0.50                        | 24.9                              |
| 7                  | ± 0.25         | 0.50                        | 29.6                              |
| 8                  | ± 0.25         | 0.50                        | 34.4                              |
| 9                  | ± 0.50         | 0.65                        | 39.4                              |
| 10                 | ± 0.50         | 0.65                        | 44.6                              |
| 12                 | ± 0.50         | 0.65                        | 55.4                              |
| 14                 | ± 1.0          | 0.65                        | 66.8                              |
| 16                 | ± 1.0          | 0.65                        | 81.6                              |
| 18                 | ± 1.0          | 0.65                        | 97.0                              |
| 20                 | ± 1.0          | 0.65                        | 117.0                             |
| 22                 | ± 1.0          | 0.65                        | 127.0                             |
| 25                 | ± 1.0          | 0.65                        | 230.0                             |

\*Options: some options will not have UL and CSA approval; contact us.

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## BRAIDED INSULATING SLEEVINGS

**SILIGAINÉ® 15C10****-60°C to +250°C****Classes H and C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATINGELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 400 to 402.

**Applications**

- Internal cabling for class H and C rotating machines (motors, alternators, generators, transformers, inductors, etc.).
- All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleevings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 3.5 mm: 200 m rolls.
  - Diameters from 4 to 5 mm: 100 m rolls.
- Diameters from 6 to 10 mm: 100 m spools.
- Diameters from 12 to 22 mm: 50 m spools.
  - Diameter 25 mm: 25 m spools.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): > 10 kV.

**Standard products**

- Colour : brick red.

## INTERNAL DIAMETER

## 15C10

| Nominal value (mm) | Tolerance (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|---------------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.60                            | 4.0                               |
| 0.8                | ± 0.15         | 0.60                            | 4.8                               |
| 1                  | ± 0.20         | 0.60                            | 5.4                               |
| 1.5                | ± 0.20         | 0.60                            | 6.9                               |
| 2                  | ± 0.20         | 0.60                            | 8.5                               |
| 2.5                | ± 0.20         | 0.60                            | 10.3                              |
| 3                  | ± 0.20         | 0.60                            | 12.1                              |
| 3.5                | ± 0.25         | 0.60                            | 14.0                              |
| 4                  | ± 0.25         | 0.70                            | 16.0                              |
| 4.5                | ± 0.25         | 0.70                            | 18.1                              |
| 5                  | ± 0.25         | 0.70                            | 20.3                              |
| 6                  | ± 0.25         | 0.70                            | 25.1                              |
| 7                  | ± 0.25         | 0.70                            | 30.2                              |
| 8                  | ± 0.25         | 0.70                            | 35.7                              |
| 9                  | ± 0.50         | 0.90                            | 41.6                              |
| 10                 | ± 0.50         | 0.90                            | 48.0                              |
| 12                 | ± 0.50         | 0.90                            | 67.5                              |
| 14                 | ± 1.0          | 1.00                            | 100                               |
| 16                 | ± 1.0          | 1.20                            | 130                               |
| 18                 | ± 1.0          | 1.20                            | 157                               |
| 20                 | ± 1.0          | 1.30                            | 181                               |
| 22                 | ± 1.0          | 1.30                            | 203                               |
| 25                 | ± 1.0          | 1.40                            | 229                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

**SILIGAINÉ® 15C1.5****-60°C to +250°C****Classes H and C**FIBREGLASS BRAIDED SLEEVING  
WITH SILICONE RUBBER COATING**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3 part 402.
- UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1. File no.: E212701.

**Applications**

- Internal cabling for rotating machines classes H and C (motors, alternators, generators, transformers, inductors, etc.).
  - All insulations up to 250°C permanent in the electric and electronic constructions, heating appliances, lighting, automobile, measuring, control, etc.

**Options**

- Other diameters: contact us.
  - Other colours: contact us.
- Sleevings cut to length: contact us.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
  - Diameter 5 mm: 100 m rolls.
- Diameters from 6 to 16 mm: 100 m spools.
- Diameters from 18 to 30 mm: 50 m spools.

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**omerin**  
LES CABLES DE L'EXTREMEELECTRIC INSULATING SLEEVINGS CLASS H and C  
SILICONE RUBBER COATING**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Good resistance to humidity, ozone and UV.
- Good resistance to common chemical environments.
- Compatible with most impregnation varnishes class H.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Very good flexibility.
- Halogen-free.

**Electrical**

- Dielectric strength (dry): 1.5 kV.

**Standard products**

- Colour: brick red.

## INTERNAL DIAMETER

## 15C1.5

| Nominal value (mm) | Tolerance (mm) | Minimum wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|-----------------------------|-----------------------------------|
| 0.5                | ± 0.15         | 0.15                        | 2.2                               |
| 0.8                | ± 0.15         | 0.15                        | 2.7                               |
| 1                  | ± 0.20         | 0.15                        | 3.1                               |
| 1.5                | ± 0.20         | 0.15                        | 4.1                               |
| 2                  | ± 0.20         | 0.15                        | 5.1                               |
| 2.5                | ± 0.20         | 0.15                        | 6.2                               |
| 3                  | ± 0.20         | 0.20                        | 7.4                               |
| 3.5                | ± 0.25         | 0.20                        | 8.6                               |
| 4                  | ± 0.25         | 0.25                        | 10.0                              |
| 4.5                | ± 0.25         | 0.25                        | 11.1                              |
| 5                  | ± 0.25         | 0.25                        | 12.6                              |
| 6                  | ± 0.25         | 0.35                        | 15.5                              |
| 7                  | ± 0.25         | 0.35                        | 18.6                              |
| 8                  | ± 0.25         | 0.35                        | 21.9                              |
| 9                  | ± 0.50         | 0.45                        | 25.6                              |
| 10                 | ± 0.50         | 0.45                        | 29.4                              |
| 12                 | ± 0.50         | 0.45                        | 48.6                              |
| 14                 | ± 1.0          | 0.45                        | 66.2                              |
| 16                 | ± 1.0          | 0.55                        | 82.6                              |
| 18                 | ± 1.0          | 0.65                        | 99.0                              |
| 20                 | ± 1.0          | 0.70                        | 116.2                             |
| 22                 | ± 1.0          | 0.85                        | 138.8                             |
| 25                 | ± 1.0          | 0.90                        | 173.5                             |
| 30                 | ± 2.0          | 1.00                        | 241.0                             |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## HIGH TEMPERATURE FIBREGLASS PROTECTIVE SLEEVINGS

| FT No.      | PRODUCT REFERENCE | APPROVAL  | PAGE |
|-------------|-------------------|---|------|
| <b>9401</b> | SILIGAINÉ 21F1    |  | 26   |
| <b>9402</b> | SILIGAINÉ 24C1    |  | 27   |
| <b>9403</b> | SILIGAINÉ 31-1    |  | 28   |
| <b>9404</b> | SILIGAINÉ 31C1E   |  | 29   |
| <b>9405</b> | SILIGAINÉ GT 1    |   | 30   |
| <b>9406</b> | SILIGAINÉ GTE 1   |   | 31   |

## BRAIDED INSULATING SLEEVINGS

HIGH TEMPERATURE FIBREGLASS  
PROTECTIVE SLEEVINGS**SILIGAINÉ® 21F1**  
-60 °C to +280 °CFIBREGLASS BRAIDED SLEEVING  
IMPREGNATED WITH HEAT-RESISTANT VARNISH**Standards\***

- IEC 60684-1 and 60684-2.
- UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1 (diameters from 0.8 to 25 mm) File no.: E212701.

**Applications**

- Cabling for heating elements.
- Domestic electrical appliances.
- Cooking appliances, ovens, air ovens, driers, convectors.
  - Lights.
- Sheathing of cable harnesses for cables subject to high temperature and mechanical constraints.

**Options**

- Other diameters: contact us.
- Sleeveings cut to length: contact us.
- Double braid sleeveing: SILIGAINÉ® 21F2.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
- Diameters from 5 to 12 mm: 100 m rolls.
- Diameters from 14 to 20 mm: 50 m rolls.
- Diameters from 22 to 50 mm: 25 m rolls.

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**Characteristics****General**

- Continuous operating temperature: -60 °C to +280 °C.
- Good resistance to thermal shock and UV.
- Very good mechanical strength and resistance to abrasion.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.

**Electrical**

- Dielectric strength (dry): 0.8 to 1.2 kV.

**Standard products**

- Colour: black.

## INTERNAL DIAMETER

## 21F1

| Nominal value (mm) | Tolerance (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|---------------------------------|-----------------------------------|
| 0.5                | ± 0.20         | 0.20                            | 0.5                               |
| 0.8                | ± 0.20         | 0.20                            | 1.3                               |
| 1                  | ± 0.25         | 0.20                            | 1.8                               |
| 1.5                | ± 0.25         | 0.20                            | 3.2                               |
| 2                  | ± 0.25         | 0.20                            | 4.5                               |
| 2.5                | ± 0.25         | 0.20                            | 5.9                               |
| 3                  | ± 0.25         | 0.20                            | 7.2                               |
| 3.5                | ± 0.30         | 0.20                            | 8.6                               |
| 4                  | ± 0.30         | 0.30                            | 9.9                               |
| 4.5                | ± 0.30         | 0.30                            | 11                                |
| 5                  | ± 0.30         | 0.30                            | 12                                |
| 6                  | ± 0.30         | 0.30                            | 13                                |
| 7                  | ± 0.40         | 0.30                            | 13                                |
| 8                  | ± 0.40         | 0.30                            | 14                                |
| 9                  | ± 0.50         | 0.30                            | 14                                |
| 10                 | ± 0.50         | 0.40                            | 16                                |
| 12                 | ± 1.0          | 0.40                            | 19                                |
| 14                 | ± 1.0          | 0.40                            | 24                                |
| 16                 | ± 1.0          | 0.40                            | 31                                |
| 18                 | ± 1.0          | 0.40                            | 39                                |
| 20                 | ± 1.0          | 0.40                            | 48                                |
| 25                 | ± 2.0          | 0.50                            | 78                                |
| 30                 | ± 2.0          | 0.50                            | 118                               |
| 35                 | ± 2.0          | 0.50                            | 165                               |
| 40                 | ± 3.0          | 0.50                            | 195                               |
| 45                 | ± 3.0          | 0.50                            | 205                               |
| 50                 | ± 4.0          | 0.50                            | 250                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

HIGH TEMPERATURE FIBREGLASS  
PROTECTIVE SLEEVINGS**SILIGAINÉ® 24C1**  
-60 °C to +350 °CFIBREGLASS BRAID SLEEVING  
HIGH TEMPERATURE TREATED  
AND IMPREGNATED WITH A SILICONE RESIN**Standards\***

- IEC 60684-1 and 60684-2.
- UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1 (diameters from 0.8 to 25 mm) File no.: E212701.

**Applications**

- High temperature heating elements (bands, cartridges, etc.).
- Domestic electrical heating appliances, cooking appliances.
- All electrothermal machines (ovens, air ovens, etc.).
- Sheathing of cable harnesses for cables subject to high temperature.

**Options**

- Other diameters: contact us.
- Other colours: contact us.
- Sleeveings cut to length: contact us.
- Double braid sleeveing up to diameter 10 mm: SILIGAINÉ® 24C2

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
- Diameters from 5 to 8 mm: 100 m rolls.
- Diameters from 9 to 12 mm: 50 m rolls.
- Diameters from 14 to 40 mm: 25 m rolls.

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silisol@omerin.com**Characteristics****General**

- Continuous operating temperature: -60 °C to +350 °C.
- Good mechanical strength.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- The total desizing operation (elimination of oils and parasite products) gives SILIGAINÉ® 24C1 excellent thermal resistance up to +400°C at peak without smoke emission.

**Electrical**

- Dielectric strength (dry): 0.8 to 1.2 kV.

**Standard products**

- Colour: white.

**INTERNAL DIAMETER****24C1**

| Nominal value (mm) | Tolerance (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|---------------------------------|-----------------------------------|
| 0.5                | ± 0.20         | 0.20                            | 1.5                               |
| 0.8                | ± 0.20         | 0.20                            | 2.0                               |
| 1                  | ± 0.25         | 0.20                            | 2.4                               |
| 1.5                | ± 0.25         | 0.20                            | 2.9                               |
| 2                  | ± 0.25         | 0.20                            | 3.1                               |
| 2.5                | ± 0.25         | 0.20                            | 3.9                               |
| 3                  | ± 0.25         | 0.20                            | 6.8                               |
| 3.5                | ± 0.30         | 0.20                            | 7.5                               |
| 4                  | ± 0.30         | 0.30                            | 9.0                               |
| 4.5                | ± 0.30         | 0.30                            | 10                                |
| 5                  | ± 0.30         | 0.30                            | 12                                |
| 6                  | ± 0.30         | 0.30                            | 14                                |
| 7                  | ± 0.40         | 0.30                            | 17                                |
| 8                  | ± 0.40         | 0.30                            | 20                                |
| 9                  | ± 0.50         | 0.30                            | 23                                |
| 10                 | ± 0.50         | 0.40                            | 26                                |
| 12                 | ± 1.0          | 0.40                            | 32                                |
| 14                 | ± 1.0          | 0.40                            | 38                                |
| 16                 | ± 1.0          | 0.40                            | 46                                |
| 18                 | ± 1.0          | 0.40                            | 55                                |
| 20                 | ± 1.0          | 0.40                            | 60                                |
| 22                 | ± 1.5          | 0.40                            | 75                                |
| 25                 | ± 2.0          | 0.50                            | 86                                |
| 30                 | ± 2.0          | 0.50                            | 105                               |
| 35                 | ± 2.0          | 0.50                            | 135                               |
| 40                 | ± 3.0          | 0.50                            | 150                               |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

HIGH TEMPERATURE FIBREGLASS  
PROTECTIVE SLEEVINGS**SILIGAINÉ® 31-1**  
-60 °C to +450 °CFIBREGLASS BRAIDED SLEEVING  
HIGH TEMPERATURE TREATED NOT IMPREGNATED**Standards\***

- IEC 60684-1 and 60684-2.
  - IEC 60684-3-300.
- UL approval, category UZIQ2: meets the requirements of the flame retardant test VW-1 (diameters from 0.8 to 25 mm) File no.: E212701.

**Applications**

- High temperature heating elements (bands, cartridges, etc.).
- Domestic electrical heating appliances, cooking appliances.
- All electrothermal machines (ovens, air ovens, etc.).
- Sheathing of cable harnesses for cables subject to high temperature.

**Options**

- Other diameters: contact us.
- Double braid sleeving: SILIGAINÉ® 31-2.

**Packaging**

- Diameters from 0.5 to 4.5 mm: 200 m spools.
- Diameters from 5 to 22 mm: 100 m spools.
- Diameters from 25 to 40 mm: 50 m spools.
- Diameters from 45 to 50 mm: 25 m spools.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +450 °C.
- Good resistance to common chemical environments.
- Non-combustible - meets the requirements of test VW-1 as per standard UL 1441.
- Frays slightly when cut.

**Standard products**

- Colour: silvery grey (natural).

**INTERNAL DIAMETER****31-1**

| Nominal value**<br>(mm) | Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-------------------------|---------------------------------------|---|
| 0.5                     | 0.20                                  | 1.5                                     |
| 0.8                     | 0.20                                  | 1.8                                     |
| 1                       | 0.20                                  | 2.2                                     |
| 1.5                     | 0.20                                  | 2.6                                     |
| 2                       | 0.20                                  | 4.3                                     |
| 2.5                     | 0.20                                  | 5.2                                     |
| 3                       | 0.20                                  | 6.0                                     |
| 3.5                     | 0.20                                  | 8.4                                     |
| 4                       | 0.30                                  | 8.4                                     |
| 4.5                     | 0.30                                  | 9.6                                     |
| 5                       | 0.30                                  | 10                                      |
| 6                       | 0.30                                  | 14                                      |
| 7                       | 0.30                                  | 16                                      |
| 8                       | 0.30                                  | 18                                      |
| 9                       | 0.30                                  | 17                                      |
| 10                      | 0.40                                  | 22                                      |
| 12                      | 0.40                                  | 26                                      |
| 14                      | 0.40                                  | 32                                      |
| 16                      | 0.40                                  | 40                                      |
| 18                      | 0.40                                  | 52                                      |
| 20                      | 0.40                                  | 40                                      |
| 22                      | 0.40                                  | 60                                      |
| 25                      | 0.50                                  | 76                                      |
| 30                      | 0.50                                  | 90                                      |
| 35                      | 0.50                                  | 100                                     |
| 40                      | 0.50                                  | 105                                     |
| 45                      | 0.50                                  | 110                                     |
| 50                      | 0.50                                  | 125                                     |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeving negates any need to show tolerances on the internal diameter.

For this product, please contact:

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LES CABLES DE L'EXTREME[www.omerin.com](http://www.omerin.com)

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## BRAIDED INSULATING SLEEVINGS

# SILIGAINÉ® 31C1E

## Expandable

### -60 °C to +350 °C

EXPANDABLE FIBREGLASS SLEEVING,  
HIGH TEMPERATURE TREATED  
IMPREGNATED WITH A SILICONE RESIN



#### Standards\*

- IEC 60684-1 and 60684-2.
- UL approval, category UZIQ2:  
meets the requirements of the  
flame retardant test VW-1  
File no.: E21 2701.

#### Applications

- High temperature heating elements (bands, cartridges, etc.).
- Domestic electrical heating appliances, cooking appliances.
- All electrothermal machines (ovens, air ovens, etc.).
- Sheathing of cable harnesses for cables subject to high temperature.

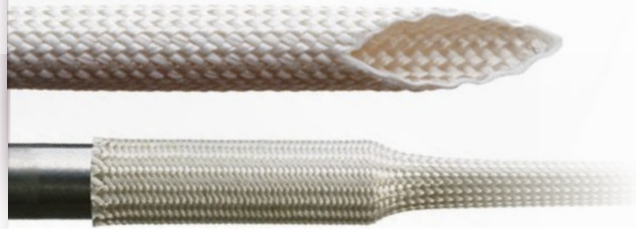
#### Options

- Other diameters: contact us.
- Sleeveings cut to length: contact us.

#### Packaging

- Diameters from 0.5 to 4.5 mm: 200 m rolls.
- Diameters from 5 to 9 mm: 100 m rolls.
- Diameters from 10 to 12 mm: 50 m rolls.
- Diameters from 14 to 20 mm: 25 m rolls.

#### HIGH TEMPERATURE FIBREGLASS PROTECTIVE SLEEVINGS



#### Characteristics

##### General

- Continuous operating temperature: -60 °C to +350 °C.
- Expandable.
- Very good flexibility.
- Good resistance to common chemical environments.
- Self-extinguishing - meets the requirements of test VW-1 as per standard UL 1441.
- Expandable sleeveing, so that a single item can be used for a large range of diameters.

#### Standard products

- Colour: silvery grey (natural).

#### INTERNAL DIAMETER\*\*

#### 31C1-E

| Nominal value (mm) | Minimum diameter (mm) | Maximum diameter (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|-----------------------|-----------------------|---------------------------------|-----------------------------------|
| 0.5                | 0.5                   | 1.5                   | 0.20                            | 2.6                               |
| 1                  | 1                     | 2.5                   | 0.20                            | 3.0                               |
| 1.5                | 1.5                   | 3                     | 0.20                            | 3.4                               |
| 2                  | 2                     | 4                     | 0.20                            | 4.5                               |
| 3                  | 3                     | 6                     | 0.20                            | 6.6                               |
| 4                  | 4                     | 9                     | 0.30                            | 8.8                               |
| 5                  | 5                     | 11                    | 0.30                            | 12.0                              |
| 6                  | 6                     | 13                    | 0.30                            | 14.9                              |
| 7                  | 7                     | 15                    | 0.30                            | 17.6                              |
| 8                  | 8                     | 16                    | 0.30                            | 19.9                              |
| 10                 | 10                    | 19                    | 0.40                            | 23.5                              |
| 12                 | 12                    | 22                    | 0.40                            | 29.4                              |
| 14                 | 14                    | 25                    | 0.40                            | 32.0                              |
| 16                 | 16                    | 28                    | 0.40                            | 49.0                              |
| 18                 | 18                    | 30                    | 0.40                            | 55.0                              |
| 20                 | 20                    | 35                    | 0.40                            | 65.0                              |

\* Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\* As these sleeveings are expandable, the internal diameters indicated correspond to a recommended operating range.

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LES CABLES DE L'EXTREME

## BRAIDED INSULATING SLEEVINGS

HIGH TEMPERATURE FIBREGLASS  
PROTECTIVE SLEEVINGS**SILIGAINÉ® GT 1**  
-60 °C to +300 °CTREATED FIBREGLASS BRAIDED SLEEVING  
NOT IMPREGNATED**Standards\***

- IEC 60684-1 and 60684-2.

**Applications**

- Cabling for heating elements.
- Sheathing of cable harnesses for cables subject to high temperature and mechanical constraints.
  - Industrial electrothermal machines (ovens, air ovens, etc.).

**Options**

- Other diameters: contact us.
- Sleevings cut to length: contact us.
- Double braid: SILIGAINÉ® GT 2: dielectric strength > 1.5 kV.
- Triple braid: SILIGAINÉ® GT 3: dielectric strength > 2.0 kV.

**Packaging**

- Diameters from 0.5 to 10 mm: 100 m rolls.
- Diameters > 10 mm: contact us.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +300 °C.
- Peak temperatures (few minutes): +350 °C.
- Good resistance to thermal shock.
- Very good ageing in hot environment.
- Good resistance to atmospheric agents. UV, ozone, oxygen.
- Good resistance to common chemical agents.

**Electrical**

- Dielectric strength (dry): > 800 V.

**Standard products**

- Colour: mottled brown.

## INTERNAL DIAMETER

## GT 1

| Nominal value**<br>(mm) | Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-------------------------|---------------------------------------|---|
| 0.5                     | 0.40                                  | 2.9                                     |
| 1                       | 0.40                                  | 3.4                                     |
| 1.5                     | 0.40                                  | 4.2                                     |
| 2                       | 0.40                                  | 4.8                                     |
| 2.5                     | 0.40                                  | 6.0                                     |
| 3                       | 0.40                                  | 6.5                                     |
| 3.5                     | 0.40                                  | 7.6                                     |
| 4                       | 0.40                                  | 9.3                                     |
| 4.5                     | 0.40                                  | 10.4                                    |
| 5                       | 0.40                                  | 10.6                                    |
| 6                       | 0.40                                  | 12.1                                    |
| 7                       | 0.50                                  | 13.6                                    |
| 8                       | 0.50                                  | 14.9                                    |
| 9                       | 0.50                                  | 17.9                                    |
| 10                      | 0.50                                  | 17.9                                    |
| 12                      | 0.60                                  | 21.3                                    |
| 14                      | 0.60                                  | 25.3                                    |
| 16                      | 0.60                                  | 30.2                                    |
| 18                      | 0.60                                  | 36.7                                    |
| 20                      | 0.60                                  | 47.1                                    |
| 22                      | 0.80                                  | 49.1                                    |
| 25                      | 1.0                                   | 94.5                                    |
| 30                      | 1.0                                   | 108                                     |
| 35                      | 1.0                                   | 102                                     |
| 40                      | 1.2                                   | 172                                     |
| 50                      | 1.2                                   | 190                                     |
| 60                      | 1.2                                   | 230                                     |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.  
\*\*Tolerance: ± 10%.

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## BRAIDED INSULATING SLEEVINGS

HIGH TEMPERATURE FIBREGLASS  
PROTECTIVE SLEEVINGS**SILIGAINÉ® GTE 1**  
-60 °C to +250 °CFIBREGLASS BRAIDED SLEEVING, TREATED  
AND COATED WITH CLEAR SILICONE VARNISH**Standards\***

- IEC 60684-1 and 60684-2.

**Applications**

- Cabling for heating elements.
- Sheathing of cable harnesses for cables subject to high temperature and mechanical constraints.
  - Industrial electrothermal machines (ovens, air ovens, etc.).

**Options**

- Other diameters: contact us.
- Sleevings cut to length: contact us.
- Double braid: SILIGAINÉ® GTE 2: dielectric strength > 2 kV.

**Packaging**

- Packaging upon request: contact us.

**Characteristics****General**

- Continuous operating temperature: -60 °C to +250 °C.
- Peak temperatures (few minutes): +350 °C.
- Good resistance to thermal shock.
- Very good ageing in hot environment.
- Good resistance to atmospheric agents. UV, ozone, oxygen.
- Good resistance to common chemical agents.

**Electrical**

- Dielectric strength (dry): > 1.5 kV.

**Standard products**

- Colour: mottled brown.

**INTERNAL DIAMETER****GTE 1**

| Nominal value**<br>(mm) | Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-------------------------|---------------------------------------|---|
| 1                       | 0.50                                  | 4.8                                     |
| 1.5                     | 0.50                                  | 5.3                                     |
| 2                       | 0.50                                  | 6.9                                     |
| 2.5                     | 0.50                                  | 7.7                                     |
| 3                       | 0.50                                  | 9.1                                     |
| 4                       | 0.50                                  | 10.4                                    |
| 5                       | 0.50                                  | 13.1                                    |
| 6                       | 0.50                                  | 14.5                                    |
| 7                       | 0.50                                  | 15.9                                    |
| 8                       | 0.50                                  | 21.3                                    |
| 9                       | 0.50                                  | 24.0                                    |
| 10                      | 0.60                                  | 28.7                                    |
| 12                      | 0.60                                  | 37.5                                    |
| 14                      | 0.60                                  | 41.7                                    |
| 16                      | 0.60                                  | 51.9                                    |
| 18                      | 0.70                                  | 55.7                                    |
| 20                      | 0.70                                  | 78.0                                    |
| 22                      | 0.70                                  | 85.5                                    |
| 25                      | 1.0                                   | 91.1                                    |
| 30                      | 1.0                                   | 172                                     |
| 35                      | 1.0                                   | 213                                     |
| 40                      | 1.2                                   | 333                                     |
| 45                      | 1.2                                   | 376                                     |
| 50                      | 1.2                                   | 447                                     |

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\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.  
\*\*Tolerance: ± 10%.**www.omerin.com**

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## VERY HIGH TEMPERATURE PROTECTIVE SLEEVINGS

| FT No.      | PRODUCT REFERENCE | PAGE |
|-------------|-------------------|------|
| <b>9501</b> | SILIGAINÉ 33SI    | 34   |
| <b>9502</b> | SILIGAINÉ GSIL    | 35   |
| <b>9503</b> | SILIGAINÉ 33NX    | 36   |

## BRAIDED INSULATING SLEEVINGS

## VERY HIGH TEMPERATURE PROTECTIVE SLEEVINGS

# SILIGAINÉ® 33SI

## +900 °C

SILICA FIBRE BRAIDED SLEEVING  
NOT TREATED, NOT IMPREGNATED



### Standards\*

- IEC 60684-1 and 60684-2.

### Applications

- Protection of wiring harnesses or ducting subject to very high temperature.
- Industrial furnaces and air ovens.
  - Nuclear.

### Options

- Other diameters: contact us.
- Diameters > 20 mm: see SILIGAINÉ® GSIL.

### Packaging

- Diameters from 0.5 to 4 mm: 200 m spools.
- Diameters from 5 to 20 mm: 100 m spools.

### Characteristics

#### General

- Continuous operating temperature: +900 °C.
- Peaks at: +1050 °C.
- Excellent thermal resistance.
- Excellent resistance to radiations.
- Low thermal expansion coefficient.
- High chemical resistance, especially to acids.
- Non-combustible.
- Good flexibility.
- Frays slightly when cut.

#### Chemical

- Silicon dioxide: > 94 %.
- Product guaranteed asbestos free.

### Standard products

- Colour: white (natural).

#### INTERNAL DIAMETER

#### 33SI

| Nominal value**<br>(mm) | Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-------------------------|---------------------------------------|---|
| 0.5                     | 0.20                                  | 4.7                                     |
| 1                       | 0.20                                  | 5.6                                     |
| 1.5                     | 0.20                                  | 6.3                                     |
| 2                       | 0.20                                  | 7.8                                     |
| 3                       | 0.20                                  | 9.6                                     |
| 4                       | 0.30                                  | 15                                      |
| 5                       | 0.30                                  | 20                                      |
| 6                       | 0.30                                  | 24                                      |
| 7                       | 0.30                                  | 27                                      |
| 8                       | 0.30                                  | 30                                      |
| 10                      | 0.40                                  | 36                                      |
| 12                      | 0.40                                  | 48                                      |
| 14                      | 0.40                                  | 66                                      |
| 16                      | 0.40                                  | 80                                      |
| 18                      | 0.40                                  | 88                                      |
| 20                      | 0.40                                  | 94                                      |

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\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeving negates any need to show tolerances on the internal diameter.

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## BRAIDED INSULATING SLEEVINGS

## VERY HIGH TEMPERATURE PROTECTIVE SLEEVINGS

# SILIGAINÉ® GSIL

## +1050 °C

ULTRA PURE SILICA FIBRE BRAIDED SLEEVING, NOT TREATED, NOT IMPREGNATED



### Standards\*

- IEC 60684-1 and 60684-2.

### Applications

- Sheathing of transport rolls in annealing ovens for special glasses.  
Does not affect the surface finishing of transported glass panes.
- Protection of wiring harnesses or ducting at very high temperature.
  - Industrial furnaces and air ovens.
    - Nuclear.

### Options

- Other diameters: contact us.

### Packaging

- Boxes of 100 m.

### Characteristics

#### General

- Continuous operating temperature: +1050 °C.
- Peaks at: +1200 °C.
- Excellent thermal resistance.
- Excellent resistance to radiations.
- Low thermal expansion coefficient.
- High chemical resistance, especially to acids.
- Non-combustible.
- Good flexibility.
- Low density.
- Good resistance to atmospheric agents. UV, ozone, oxygen.
- Frays slightly when cut.

#### Chemical

- Silicon dioxide: > 99,9 %.
- Product guaranteed asbestos free.

### Standard products

- Colour: white (natural).

#### INTERNAL DIAMETER

#### GSIL

| Nominal value**<br>(mm) | Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-------------------------|---------------------------------------|---|
| 1                       | 0.40                                  | 2.8                                     |
| 2                       | 0.40                                  | 5.2                                     |
| 3                       | 0.40                                  | 5.6                                     |
| 4                       | 0.40                                  | 7.5                                     |
| 5                       | 0.40                                  | 8.4                                     |
| 6                       | 0.40                                  | 12                                      |
| 7                       | 0.50                                  | 13                                      |
| 8                       | 0.50                                  | 15                                      |
| 10                      | 0.60                                  | 26                                      |
| 12                      | 0.60                                  | 22                                      |
| 14                      | 0.60                                  | 25                                      |
| 16                      | 0.60                                  | 34                                      |
| 18                      | 0.60                                  | 38                                      |
| 20                      | 0.60                                  | 42                                      |
| 25                      | 0.60                                  | 43                                      |
| 30                      | 0.80                                  | 52                                      |
| 40                      | 0.80                                  | 67                                      |
| 45                      | 0.80                                  | 73                                      |
| 50                      | 1.0                                   | 81                                      |
| 60                      | 1.0                                   | 93                                      |
| 75                      | 1.0                                   | 176                                     |
| 83                      | 1.0                                   | 195                                     |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeve negates any need to show tolerances on the internal diameter.

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LES CABLES DE L'EXTREME

## BRAIDED INSULATING SLEEVINGS

## VERY HIGH TEMPERATURE PROTECTIVE SLEEVINGS

# SILIGAINÉ® 33NX

## +1200 °C

BOROSILICOALUMINATE FIBRE BRAIDED SLEEVING  
NOT TREATED, NOT IMPREGNATED



### Standards\*

- IEC 60684-1 and 60684-2.

### Applications

- Sheathing of transport rolls in annealing ovens for special glasses. Does not affect the surface finishing of transported glass panes.
- Protection of wiring harnesses or ducting at very high temperature.
- Industrial furnaces and air ovens.
  - Nuclear.

### Options

- Other diameters: contact us.

### Packaging

- Diameters from 0.5 to 4 mm: 200 m spools.
- Diameters from 5 to 20 mm: 100 m spools.
- Diameters from 25 to 40 mm: 50 m spools.
  - Diameters > 45 mm: 25 m spools.

### Characteristics

#### General

- Continuous operating temperature: +1200 °C.
- Peaks at: +1400 °C.
- Excellent thermal resistance.
- Very good mechanical strength at high temperature.
- Excellent resistance to radiations.
- Low thermal expansion coefficient.
- Non-combustible.
- Good flexibility.
- Frays slightly when cut.

#### Chemical

- Product guaranteed asbestos free.

### Standard products

- Colour: white (natural).

#### INTERNAL DIAMETER

#### 33NX

| Nominal value**<br>(mm) | Approximate<br>wall thickness<br>(mm) | Approximate<br>linear weight<br>(kg/km) |
|-------------------------|---------------------------------------|---|
| 0.5                     | 0.20                                  | 4.7                                     |
| 1                       | 0.20                                  | 5.6                                     |
| 1.5                     | 0.20                                  | 6.3                                     |
| 2                       | 0.20                                  | 7.8                                     |
| 3                       | 0.20                                  | 9.6                                     |
| 4                       | 0.30                                  | 15                                      |
| 5                       | 0.30                                  | 20                                      |
| 6                       | 0.30                                  | 24                                      |
| 7                       | 0.30                                  | 27                                      |
| 8                       | 0.30                                  | 30                                      |
| 10                      | 0.40                                  | 36                                      |
| 12                      | 0.40                                  | 48                                      |
| 14                      | 0.40                                  | 66                                      |
| 16                      | 0.40                                  | 80                                      |
| 18                      | 0.40                                  | 88                                      |
| 20                      | 0.40                                  | 94                                      |
| 30                      | 0.50                                  | 104                                     |
| 40                      | 0.50                                  | 110                                     |
| 50                      | 0.50                                  | 115                                     |
| 60                      | 0.50                                  | 170                                     |
| 70                      | 0.70                                  | 215                                     |
| 80                      | 0.70                                  | 250                                     |

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\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeve negates any need to show tolerances on the internal diameter.

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**OTHER PROTECTIVE SLEEVINGS**

| FT No.      | PRODUCT REFERENCE     | PAGE |
|-------------|-----------------------|------|
| <b>9601</b> | SILIGAINÉ 22P1        | 38   |
| <b>9602</b> | SILIGAINÉ TN          | 39   |
| <b>9603</b> | SILIGAINÉ TN-FR       | 40   |
| <b>9604</b> | SILIGAINÉ TN-FR TWIST | 41   |

## BRAIDED INSULATING SLEEVINGS

## OTHER PROTECTIVE SLEEVINGS

# SILIGAINÉ® 22P1

## +130°C

### Class B

POLYESTER THREAD BRAIDED SLEEVING  
SLIGHTLY IMPREGNATED

#### Standards\*

- IEC 60684-1 and 60684-2.
- IEC 60684-3 part 320.

#### Applications

- Internal cabling for hermetically sealed units.
- Internal cabling for rotating machines class B.
  - Sheathing of cable harnesses (automobile, electronics, lighting, etc.).

#### Options

- Other diameters: contact us.
- Other colours: contact us.
- Sleeveings cut to length: contact us.
- Sleeveing not impregnated: SILIGAINÉ® 32P1.

#### Packaging

- Diameters from 0.5 to 4 mm: 200 m rolls.
- Diameters from 5 to 9 mm: 100 m rolls.
- Diameters from 10 to 12 mm: 50 m rolls.
- Diameters from 14 to 25 mm: 25 m rolls.
  - Other packaging: contact us.

#### Characteristics

##### General

- Temperature in continuous working: up to +130°C.
- Good resistance to freon gas.
- Good resistance to oils, alcohols and solvents.
- Compatible with most impregnation varnishes.
- Excellent mechanical strength.

##### Electrical

- Dielectric strength (dry): 0.8 to 1.2 kV.

#### Standard products

- Colour: white.

#### INTERNAL DIAMETER

#### 22P1

| Nominal value (mm) | Tolerance (mm) | Approximate wall thickness (mm) | Approximate linear weight (kg/km) |
|--------------------|----------------|---------------------------------|-----------------------------------|
| 0.5                | ± 0.25         | 0.30                            | 1.4                               |
| 0.8                | ± 0.25         | 0.30                            | 1.7                               |
| 1                  | ± 0.25         | 0.30                            | 1.8                               |
| 1.5                | ± 0.25         | 0.30                            | 2.0                               |
| 2                  | ± 0.25         | 0.30                            | 2.6                               |
| 2.5                | ± 0.25         | 0.30                            | 3.0                               |
| 3                  | ± 0.50         | 0.30                            | 3.5                               |
| 4                  | ± 0.50         | 0.30                            | 4.2                               |
| 5                  | ± 0.50         | 0.50                            | 8.0                               |
| 6                  | ± 0.50         | 0.50                            | 10                                |
| 7                  | ± 0.50         | 0.50                            | 12                                |
| 8                  | ± 0.50         | 0.50                            | 15                                |
| 9                  | ± 0.50         | 0.50                            | 18                                |
| 10                 | ± 0.50         | 0.50                            | 20                                |
| 12                 | ± 1.0          | 0.70                            | 24                                |
| 14                 | ± 1.0          | 0.70                            | 30                                |
| 16                 | ± 1.0          | 0.70                            | 34                                |
| 18                 | ± 1.0          | 0.70                            | 41                                |
| 20                 | ± 1.0          | 0.90                            | 47                                |
| 25                 | ± 1.0          | 0.90                            | 66                                |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

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## BRAIDED INSULATING SLEEVINGS

# SILIGAINÉ® TN

## -50°C to +150°C

BRAIDED EXPANDABLE SLEEVING  
IN SINGLE-FILAMENT POLYESTER

### Standards\*

- IEC 60684-1 and 60684-2.
- IEC 60684-3 parts 340 to 342.

### Applications

- Sheathing of electric cable harnesses
- Protection of assemblies subject to severe mechanical constraints (abrasion, cutting, alternate bendings, doorways, etc.) .

### Options

- Sleevings cut to length: contact us.
  - Grey braid: SILIGAINÉ® TG.
- Braid in Rilsan® single-filament braid for improved resistance to abrasion (wire of diameter 0.30 mm): SILIGAINÉ® RN or SILIGAINÉ® RG.
  - Braid resistant to vertical flame (UL 1441-VW-1) in special single-filament polyester: SILIGAINÉ® TN-FR.

### Packaging

- Diameters from 3 to 10 mm: 100 m rolls.
- Diameters from 12 to 30 mm: 50 m rolls.
- Diameters from 40 to 50 mm: 25 m rolls.



For this product, please contact:

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## OTHER PROTECTIVE SLEEVINGS



### Characteristics

#### General

- Continuous operating temperature: - 50 °C to +150 °C.
- Peaks at +220°C.
- Good resistance to oils and common chemical environments.
- Excellent resistance to humidity and mould.
- Excellent resistance to abrasion.
- Expandable sleeving for easy threading and wide range of overlapping diameters.

### Standard products

- Colour: black.

| Part number | Nominal internal diameter** (mm) | Minimum internal diameter** (mm) | Maximum internal diameter** (mm) | Approximative linear weight (kg/km) |
|-------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|
| PO901004    | 3                                | 1                                | 6                                | 3.6                                 |
| PO901010    | 4                                | 2                                | 7                                | 4.2                                 |
| PO901005    | 5                                | 3                                | 9                                | 5                                   |
| PO901007    | 6                                | 4                                | 11                               | 5.8                                 |
| PO901002    | 8                                | 5                                | 13                               | 7                                   |
| PO901003    | 10                               | 6                                | 17                               | 8.4                                 |
| PO901009    | 12                               | 8                                | 21                               | 11.5                                |
| PO901006    | 15                               | 10                               | 24                               | 11.4                                |
| PO901011    | 20                               | 13                               | 28                               | 14                                  |
| PO901008    | 25                               | 14                               | 36                               | 13.8                                |
| PO901012    | 30                               | 17                               | 43                               | 26                                  |
| PO901013    | 40                               | 25                               | 60                               | 29                                  |
| PO901001    | 50                               | 35                               | 75                               | 36                                  |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeving negates any need to show tolerances on the internal diameter. Rilsan® is an Arkema registered trademark.



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## BRAIDED INSULATING SLEEVINGS

# SILIGAINÉ® TN FR

## -50°C to +150°C

FIREPROOF BRAIDED EXPANDABLE SLEEVING  
IN SINGLE-FILAMENT POLYESTER

## OTHER PROTECTIVE SLEEVINGS



### Standards\*

- Classification R22: HL3, R23: HL3, according to EN 45545-2
  - UL 1441

### Applications

- Protection of assemblies subject to severe mechanical constraints (abrasion, cutting, alternate bendings, doorways, etc.).
  - Railway and electronic industries.

### Packaging

- Diameters from 3 to 8 mm: 100 m spools.
- Diameters from 10 to 50 mm: 50 m spools.

### Characteristics

#### General

- Continuous operating temperature: -50°C to +150°C
- Peaks at +175°C.
- Expandable sleeve
- Flame resistant
- Excellent resistance to abrasion
- Excellent cutting resistance
- Excellent resistance to humidity and mould
- Light weight
- Halogen-free

### Recommendations

Hot cutting to length means there is no fraying to the ends.

### Standard products

- Colour: black with white tracer.

| Part number | Nominal internal diameter** (mm) | Minimum internal diameter** (mm) | Maximum internal diameter** (mm) | Approximate linear weight (kg/km) |
|-------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|
| PO903004    | 3                                | 2                                | 5                                | 3.6                               |
| PO903002    | 4                                | 3                                | 7                                | 4.3                               |
| PO903005    | 5                                | 4                                | 9                                | 4.9                               |
| PO903006    | 6                                | 5                                | 11                               | 5.8                               |
| PO903007    | 8                                | 7                                | 13                               | 7.2                               |
| PO903008    | 10                               | 9                                | 15                               | 8.7                               |
| PO903009    | 12                               | 11                               | 17                               | 10.3                              |
| PO903001    | 15                               | 13                               | 20                               | 11.3                              |
| PO903010    | 20                               | 18                               | 25                               | 13.1                              |
| PO903011    | 25                               | 22                               | 30                               | 18.0                              |
| PO903012    | 30                               | 27                               | 40                               | 21.8                              |
| PO903013    | 40                               | 35                               | 50                               | 29.5                              |
| PO903014    | 50                               | 45                               | 60                               | 36.1                              |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeving negates any need to show tolerances on the internal diameter.

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# SILIGAINÉ® TN FR TWIST

-50°C to +150°C

FIREPROOF BRAIDED EXPANDABLE  
SELF WRAPPING SLEEVING  
IN SINGLE-FILAMENT POLYESTER



## Standards\*

- Classification R22: HL3, R23: HL3, according to EN 45545-2
  - UL 1441

## Applications

- Protection of assemblies subject to severe mechanical constraints (abrasion, cutting, alternate bendings, doorways, etc.).
- Railway, marine and electronic industries.

## Options

- For diameters over 50 mm, please contact us.

## Packaging

- Diameter of 5 mm: 150 m spools.
- Diameter of 8 mm: 100 m spools.
- Diameters from 13 to 16 mm: 50 m spools.
- Diameters from 19 to 25 mm: 25 m spools.
- Diameters from 29 to 50 mm: 15 m spools.

## Characteristics

### General

- Continuous operating temperature: -50°C to +150°C
- Self wrapping (Quick and easy installation for assembly or maintenance)
- Flame resistant
- Excellent resistance to abrasion
- Light weight
- Halogen-free

## Recommendations

SILIGAINÉ® TN FR TWIST should be tied at intervals if continuous working temperature exceeds +110°C.

## Standard products

- Colour: black with white tracer.

| Part number | Nominal internal diameter** (mm) | Minimum internal diameter** (mm) | Maximum internal diameter** (mm) | Approximative linear weight (kg/km) |
|-------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|
| P0906001    | 5                                | 4                                | 5                                | 10                                  |
| P0906002    | 8                                | 5                                | 8                                | 13                                  |
| P0906003    | 13                               | 8                                | 13                               | 21                                  |
| P0906004    | 16                               | 13                               | 16                               | 25                                  |
| P0906005    | 19                               | 16                               | 19                               | 29                                  |
| P0906006    | 25                               | 19                               | 25                               | 42                                  |
| P0906007    | 29                               | 25                               | 29                               | 44                                  |
| P0906008    | 32                               | 29                               | 32                               | 48                                  |
| P0906009    | 38                               | 32                               | 38                               | 58                                  |
| P0906010    | 50                               | 38                               | 50                               | 93                                  |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\*The extra flexibility of this type of sleeving negates any need to show tolerances on the internal diameter.

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## SPECIAL SLEEVINGS AND OVEN SEALS

| FT No.      | PRODUCT REFERENCE | PAGE |
|-------------|-------------------|------|
| <b>9702</b> | SILITUBE X        | 44   |
| <b>9703</b> | VEROX             | 45   |

# SILITUBE® X

## Fireproof sleeving

MINERAL FIBRE BRAIDED SLEEVING,  
COATED WITH SILICONE RUBBER,  
WATERTIGHT AND FIREPROOF



### Standards\*

- Inspired by American aeronautical standards SAE.AS1055 and AS1072.
- IEC 60695-2-10 and IEC 60695-2-11.
- NF EN 45545-2.

### Applications

- Protection and insulation of electric wiring harnesses, water, gas, compressed air or hydraulic fluid pipes, against aggression (presence of flames, projections of melting metals or glass, very high episodic temperatures, steam projections, etc.) in such industries as:
  - > Steel industry, foundry, steelworks, glassworks.
  - > Chemicals, petrochemical industry.
  - Shipbuilding, railway construction.
- Aeronautical construction, space industry.
  - > All aggressive environments.

### Options

- Customised lengths: contact us.

### Packaging

- Packaging upon request: contact us.

### Characteristics

#### General

- Continuous operating temperature: -60 °C to +260 °C.
  - Peaks: 30 min at 800 °C.
  - 15 min at 1100 °C.
  - 1 min at 1500 °C.
- Classification R22-R23 HL1, HL2 and HL3 as per EN 45545-2.
- The thick braid ensures thermal protection.
- The silicone coating ensures episodic resistance to flames and watertightness.
- Excellent flexibility at low temperature: SILITUBE® X does not harden, does not chip off, does not soften.
- Slight swelling when hydrocarbons are present.
- Very good flexibility.

#### Chemical

- Halogen-free.
- Product guaranteed asbestos free.

### Standard products

- Colour : brick red.

#### INTERNAL DIAMETER\*\*

#### SILITUBE® X

| SILITUBE® X reference | Nominal value (mm) | Nominal value inch | Nominal wall thickness (mm) | Approximate linear weight (kg/km) |
|-----------------------|--------------------|--------------------|-----------------------------|-----------------------------------|
| X 8                   | 8                  | 5/16"              | 4                           | 120                               |
| X 10                  | 10                 | 3/8"               | 4                           | 140                               |
| X 13                  | 13                 | 1/2"               | 4                           | 200                               |
| X 16                  | 16                 | 5/8"               | 4                           | 220                               |
| X 19                  | 19                 | 3/4"               | 4                           | 340                               |
| X 22                  | 22                 | 7/8"               | 4                           | 360                               |
| X 25                  | 25                 | 1"                 | 4                           | 380                               |
| X 32                  | 32                 | 1" 1/4             | 4                           | 480                               |
| X 38                  | 38                 | 1" 1/2             | 4                           | 680                               |
| X 45                  | 45                 | 1" 3/4             | 4                           | 720                               |
| X 51                  | 51                 | 2"                 | 4                           | 750                               |
| X 57                  | 57                 | 2" 1/4             | 4                           | 1 020                             |
| X 64                  | 64                 | 2" 1/2             | 4                           | 1 280                             |
| X 76                  | 76                 | 3"                 | 4                           | 1 700                             |
| X 89                  | 89                 | 3" 1/2             | 4                           | 1 800                             |
| X 102                 | 102                | 4"                 | 4                           | 1 950                             |

\*Standards: our products comply with all or part of the requirements of standards quoted; contact us.

\*\* The flexibility and extra wall thickness of the SILITUBE® X negates the need to indicate tolerances on the internal diameter.

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## VEROX®

### Characteristics

- Non-combustible.
- Non hygroscopic.
- No apparent ageing.
- Resistant to oils, alcohols and solvents.
- Electric insulations.
- No environmental hazard.

**-20 °C to +500 °C**

**Special Pyrolysis**

Wide range of fascia joints.

**GPAD  
TM-FDV-C**



Wide range of interglass fibreglass seals.

**JHIV1  
JHIV2**



**-100 °C to +1050 °C**

Wide range of fascia joints.

**TM-FDV  
JHIV B • JPLAT**



## Clipping systems

Innovative clipping systems  
adapting to your oven.

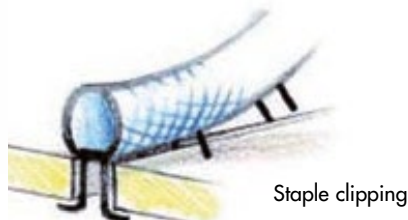
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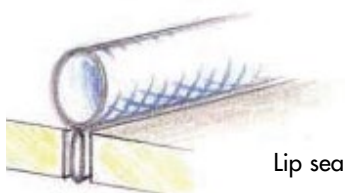
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Staple clipping



Lip seal

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The information provided in this technical data sheet is indicative and may be modified without prior notice, laying, wiring and electrical conditions and the environment of the cable can not be fully considered in our studies. In some cases, for production purposes, a separating tape may be added between two successive layers. In no way the company OMERIN shall be held responsible for any incidents in the case of inappropriate uses, particularly in the case of wiring conditions that do not respect the good practice and the standards in force. For an optimum use of the cables produced by our company, we recommend testing in real conditions. Our sales department is available for a possible provision of samples, and/or for the conditions of a complete study in our laboratories.

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