

## FEATURES

- Excellent high temperature resistance
- LSZH (Low Smoke Zero Halogen)
- Self-Extinguishing
- Highly flexible
- Excellent resistance to solvents
- Good fray resistance when it is cut
- High oxygen index
- Compatible with most impregnating varnish systems
- Highly resilient and will recover roundness after being flattened

## RS PRO Braided Fibreglass Natural Cable Sleeve, 16mm Diameter, 5m Length

RS Stock No.: 668-1254



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

## Product Description

From RS PRO a high quality highly flexible braided fibreglass cable sleeving or cable tubing impregnated with a silicone varnish. This highly resilient cable sleeving has high-temperature capabilities of up to 300°C and is self-extinguishing and LSZH (Low Smoke Zero Halogen) which means it does not release dangerous gasses when it burns. These unique qualities make this braided cable sleeve ideal for use in electrical insulation applications where there are high operating temperatures. This cable sleeve is easy to apply by simply routing your cables and wires through the inside. The excellent flexibility of this sleeving means it can bend around a diameter less than 10 times its bore without flattening.

## General Specifications

|                       |   |
|-----------------------|---|
| <b>Material</b>       | Fibreglass  |
| <b>Colour</b>         | Natural   |
| <b>Braided</b>        | Yes   |
| <b>Expandable</b>     | No  |
| <b>Fire Behaviour</b> | Halogen Free; Self-extinguishing  |
| <b>Applications</b>   | Mass transit cable protection, Rail Harnessing - EN45545 Approved, Rail Tunnel applications, Exhaust assemblies and system components, Automobile wire harnessing, Heating appliances and central heating boilers |

## Mechanical Specifications

|                               |       |
|-------------------------------|-------|
| <b>Sleeve Diameter</b>        | 16mm  |
| <b>Sleeve Length</b>          | 5m    |
| <b>Wall Thickness</b>         | 0.6mm |
| <b>Minimum Cable Diameter</b> | 16mm  |

| Property            | Test Method | Typical Value |
|---------------------|-------------|---------------|
| Dielectric Strength | -           | 1kV/mm        |

## Operation Environment Specifications

|                                      |                |
|--------------------------------------|----------------|
| <b>Operating Temperature Range</b>   | -40°C to 300°C |
| <b>Minimum Operating Temperature</b> | -40°C          |
| <b>Maximum Operating Temperature</b> | 300°C          |

## Approvals

|                                  |  |
|----------------------------------|--|
| <b>Compliance/Certifications</b> | EN, UL ,RoHS , LUL   |
| <b>Standards Met</b>             | IEC 60684, RoHS Compliant, UL 1441, UL E151092, R22 &R23, HL3, |



### TECHNICAL TABLE

| PROPERTY                                 | TEST  | RESULT  |
|--|---|---|
| THERMAL OVERCHARGE AND AGEING RESISTANCE | Simulation of real operating conditions                               | 10 days at +350°C   |
| HEAT RESISTANCE                          | Bending after heating IEC 60684 Part 2 Clause 13, 48 hours at +400°C  | No cracking. Silicone varnish will burn off.                                |
| CHEMICAL RESISTANCE                      | Simulation of real operating conditions                               | Excellent resistance to solvents. Compatible with most insulating varnishes |
| FLAMMABILITY                             | Flame propagation: IEC 60684 Part 2 Clause 26 Method B vertical wire. | Will not ignite   |
|  | Flame test: UL 1441 VW-1 vertical with wire                           | Will not ignite   |
| ABRASION RESISTANCE                      | SEA ARP 1536  | Minimum 4.000 cycles (Ø=20mm)   |
| COLD RESISTANCE                          | Bending at low temperature IEC 60684-Part 2 Clause 14                 | No cracking after bending at -70°C  |
| OXYGEN INDEX (I.O.)                      | UNE EN ISO 4589   | 10 = 64,5%  |
| TOXICITY                                 | NF X 70-100   | ITC = 4,08  |
| SMOKE DENSITY                            | NF X 10-702 (Test conducted in flame mode)                            | V0F4 = 3,2 Dmax = 3   |
| SMOKE INDEX                              | NF F 16-101   | IF = 2,2  |
| FIRE BEHAVIOUR                           | EN 45545 – 2 - 2013   | R22&R23: Hazard level HL1, HL2, HL3   |

### DIMENSIONS

| Nominal Bore (mm) | Bore Tolerance (mm) | Minimum Wall Thickness (mm) |
|-------------------|---------------------|-----------------------------|
| 0.5               | +0.20               | 0.20                        |
| 1.0               | +0.20               | 0.25                        |
| 1.5               | +0.20               | 0.25                        |
| 2.0               | +0.20               | 0.25                        |
| 2.5               | +0.20               | 0.25                        |
| 3.0               | +0.20               | 0.25                        |
| 3.5               | +0.30               | 0.25                        |
| 4.0               | +0.30               | 0.30                        |
| 4.5               | +0.30               | 0.30                        |
| 5.0               | +0.30               | 0.30                        |
| 6.0               | +0.30               | 0.30                        |
| 7.0               | +0.30               | 0.30                        |
| 8.0               | +0.0                | 0.30                        |
| 9.0               | +0.50               | 0.30                        |
| 10.0              | +0.50               | 0.30                        |
| 12.0              | +0.50               | 0.45                        |
| 14.0              | +0.50               | 0.45                        |
| 16.0              | +1.0                | 0.45                        |
| 18.0              | +1.0                | 0.55                        |
| 20.0              | +1.0                | 0.55                        |
| 22.0              | +1.0                | 0.60                        |
| 25.0              | +1.0                | 0.60                        |