

TECHNICAL INFORMATION SHEET

GSIG / GSI – Flexible, self-extinguishing, spiralled sheath



Product Type:

Plastic flexible bendable spiralled sheath for cable trunking.

Applications: outdoor installations and on machinery

GSIG / GSI range dimensions:

Name	Nominal diameter (mm)	External diam. (mm)	Internal diam. (mm)	Notes
GSIG 8	8	11.5	8-0.5	Grey
GSIG 10	10	14.7	10-0.5	Grey
GSIG 12	12	16.4	12-0.5	Grey
GSIG 14	14	18.9	14-0.5	Grey
GSIG 16	16	20.7	16-0.5	Grey
GSIG 20	20	24.7	20-0.5	Grey
GSIG 22	22	27.7	22-0.5	Grey
GSIG 25	25	30.6	25-0.5	Grey
GSIG 28	28	33.5	28-1	Grey
GSIG 32	32	38	32-1	Grey
GSIG 35	35	41	35-1	Grey
GSIG 40	40	46.4	40-1	Grey
GSIG 50	50	57	50-1	Grey
GSI 8	8	11.5	8-0.5	Black
GSI 10	10	14.7	10-0.5	Black
GSI 12	12	16.4	12-0.5	Black
GSI 14	14	18.9	14-0.5	Black
GSI 16	16	20.7	16-0.5	Black
GSI 20	20	24.7	20-0.5	Black
GSI 22	22	27.7	22-0.5	Black

GSI 25	25	30.6	25 _{-0.5}	Black
GSI 28	28	33.5	28 ₋₁	Black
GSI 32	32	38	32 ₋₁	Black
GSI 35	35	41	35 ₋₁	Black
GSI 40	40	46.4	40 ₋₁	Black
GSI 50	50	57	50 ₋₁	Black

Accessories for GSIG /GSI flexible spiralled sheaths :


Name	Product Description	Protection classification
RAMG/RAMA	Coupling to join sheath to boxes. Metric thread	IP64
RAGG/RAGA	Coupling to join sheath to boxes. GAS thread	IP64
RAPG/RAPA	Coupling to join sheath to boxes. PG thread	IP64
RPM/RPMN	Straight rotating coupling to join sheath to boxes. Metric thread	IP65
RPS/RPSN	Straight rotating coupling to join sheath to boxes. GAS thread	IP65
RPG/RPGN	Straight rotating coupling to join sheath to boxes. PG thread	IP65
RGR	Rotating coupling to join sheath to boxes. GAS thread	IP65
RTGN	Coupling to join rigid conduits to sheaths. Same diameter	IP67
GSTON	Coupling to join rigid conduits to sheaths.	IP65

Colours: RAL 7035 light grey, black

Materials: Rigid plastified self-extinguishing PVC. Self-extinguishing polypropylene (rotating couplings: IP65). Polypropylene (RTGN)

Declaration of Conformity

The GSIG /GSI product range and related accessories (excluding the following products: STC – TAG) come under the scope of the Low Voltage Directive 2014/35/UE and comply with all relevant essential requirements set in the Directive.

Compliance with the Directive is indicated by the  marking and by all required symbols and markings affixed on the product, its packaging, in the assembly instructions and product catalogue, as well as by full product compliance with applicable standards.

Normative References:

- EN 61386-1: "Conduit systems for electrical installations - Part 1: General requirements"
- EN 61386-23: "Conduit systems for electrical installations - Part 23: Particular requirements - Flexible conduit systems"
- UL 1696 : “Nonmetallic mechanical protection tubing”

Degrees of Protection – Through the combined use of sheaths-accessories, a closed system can be achieved with the following degrees of protection:

- IP 64 with fixed sheath couplings
- IP 65 with rotating sheath couplings
- IP 67 with RTGN conduit-sheath couplings

Compression strength: class 2 (greater than 320 newton on 5 cm at +23 +/- 2 °C)

Resistance to impact: class 3 (2 kg from 10 cm at +5°C)

Minimum Service Temperature: class 1 (+5 °C)

Maximum Service Temperature: class 1 (+ 60 °C)

Electrical insulation resistance: greater than 100 megaohm for 500 V for 1 min

Electric strength greater than 2000 V - 50 Hz for 15 min

Flame propagation resistance: according to EN 60695-11-2 Standard. 1kW pre-mixed test flame: non-flame propagating

Glow wire test EN 60695-2-11: Passed the 850 °C temperature test (GWT EN 60695-2-11).

Self-extinguishing material (PVC) according to UL94 standard: V0

Flexibility: passed bend test consisting of 5,000 bends with total 180 degree bending angle at 5 °C and + 60 °C temperature.

Radius of curvature: twice its diameter

Resistance to Chemical Agents :

Saline	Acids		Bases		Solvents				Mineral Oil
	Concentrated	Thinned	Concentrated	Thinned	Hexane	Benzoic acid	Acetone	Ethyl-alcohol	
Resistant	Resistant in certain conditions	Resistant	Resistant in certain conditions	Resistant	Resistant	Unsuitable	Unsuitable	Resistant	Resistant

Markings and certifications:



Conformity with 2011/65/CE (RoHS) Directive: yes