

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001
- IIP (Investors in People)

INDUSTRIES AND APPLICATIONS



Electrically insulated protective hose GSN5A/GSN5A-FR UL1441

Typical uses

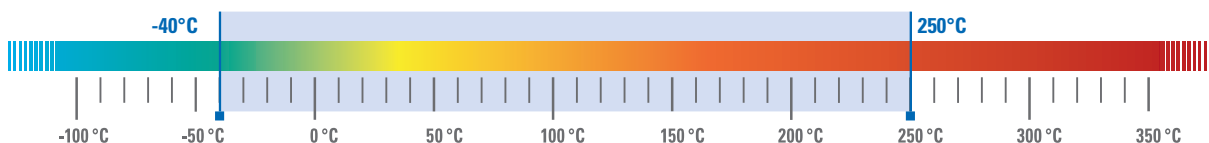
- Automotive industry
- E-mobility / hybrid
- Electrical insulation
- Electrical motors construction
- Cable manufacture
- Transformers construction

Key properties

- Long-term heat resistance of -40°C to +250°C
- Short-term heat resistance up to +275°C
- Textile fibreglass sleeve, silicone coated
- UL 1441 Recognition, File-No. E165094
- Textile fibreglass /-Silicone Grade A, 200°C/ 600V
- GSN5A self-extinguishing according to UL 1441
- GSN5A-FR self-extinguishing according to UL 1441 VW-1
- Dielectric strength according UL 1441 Grade A (>7kV), operating voltage 600V
- Good resistance to water, salt spray mist, cleaning agents and impregnating resins
- Good resistance to fuels and lubricants in the event of temporary use
- Very good flexibility and tensibility
- Very high cut resistance
- Good bending strength
- Physiologically harmless
- Glossy and equal silicone coating for an easy cable assembly
- Large color range



Application temperature



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GSN5A/GSN5A-FR UL1441

Electrically insulated protective hose

Product description

The electrically insulated protective hose in the GSN5A or GSN5A-FR version is a combination made of a heavy duty textile glass mesh conforming to UL 1441, 600 V, Grade A "Silicone-polymer-coated." This design ensures a very smooth and even surface with special circularity and simple processing in cable production. It has very good resistance to high temperatures and aggressive media. No significant change in the flexibility, no softening or melting when used within the stated temperature range of -40°C to 250°C. The electrically insulated protective hose GSN5A is available as a self-extinguishing version conforming to UL 1441, the GSN5A-FR (special version) as a self-extinguishing version UL [conforming to] 1441 VW-1. The electrically insulated protective hose in the GSN5A or GSN5A-FR version is available in a wide range of colors.

Ecology, Environment & Safety

Ingredients compliant with VDA - requirements

UL 1441 Recognition File-Nr. E 165094

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile glass fibres non-carcinogenic, non-hazardous to the environment, non-hazardous to water

When using and disposing the electrically insulated protective hose GSN5A/GSN5A-FR UL1441 there are no environmentally relevant by-products expected.

BIW-Standard dimensions

Electrically insulated protective hose GSN5A/GSN5A-FR UL1441 (Code: GUV)

On demand individual colours available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
AWG 24 / 0.51	+0.18	minimum 0.279		200
AWG 22 / 0.64	+0.17	minimum 0.330		200
AWG 20 / 0.81	+0.18	minimum 0.330		200
AWG 19 / 0.91	+0.21	minimum 0.330		200
AWG 18 / 1.02	+0.23	minimum 0.381		200
AWG 17 / 1.14	+0.23	minimum 0.381		200
AWG 16 / 1.30	+0.25	minimum 0.381		200
AWG 15 / 1.45	+0.25	minimum 0.381		200
AWG 14 / 1.63	+0.25	minimum 0.381		200
AWG 13 / 1.83	+0.25	minimum 0.381		200
AWG 12 / 2.06	+0.25	minimum 0.381		200
AWG 11 / 2.31	+0.29	minimum 0.457		200

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BIW Isolierstoffe GmbH

Pregelstraße 2-5
 D-58256 Ennepetal
 Tel.: +49 (2333) 8308-0
 Fax.: +49 (2333) 8308-10
 info@biw.de
 www.biw.de

Certified management system by:

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TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS

**GSN5A/GSN5A-FR UL1441****Electrically insulated protective hose****BIW-Standard dimensions****Electrically insulated protective hose GSN5A/GSN5A-FR UL1441 (Code: GUV)**

On demand individual colours available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
AWG 10 / 2.60	+0.20	minimum 0.457		200
AWG 9 / 2.90	+0.30	minimum 0.457		200
AWG 8 / 3.30	+0.30	minimum 0.457		200
AWG 7 / 3.70	+0.30	minimum 0.457		200
AWG 6 / 4.10	+0.40	minimum 0.508		200
AWG 5 / 4.60	+0.40	minimum 0.508		100
AWG 4 / 5.20	+0.50	minimum 0.508		100
AWG 3 / 5.80	+0.50	minimum 0.508		100
AWG 2 / 6.60	+0.50	minimum 0.508		100
AWG 1 / 7.30	+0.60	minimum 0.508		100
AWG 0 / 8.30	+0.50	minimum 0.635		100
metric / 0.5	+0.18	minimum 0.279		200
metric / 1.0	+0.21	minimum 0.381		200
metric / 2.0	+0.25	minimum 0.381		200
metric / 2.5	+0.29	minimum 0.457		200
metric / 3.5	+0.30	minimum 0.457		200
metric / 4.0	+0.30	minimum 0.508		200
metric / 4.5	+0.40	minimum 0.508		100
metric / 5.0	+0.50	minimum 0.508		100
metric / 6.0	+0.50	minimum 0.508		100
metric / 7.0	+0.50	minimum 0.508		100
metric / 8.0	+0.60	minimum 0.635		100
metric / 9.0	+0.50	minimum 0.635		100
metric / 10.0	+0.60	minimum 0.635		100
metric / 12.0	+0.60	minimum 0.635		100

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On demand individual colours available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
metric / 14.0	+0.60	minimum 0.635		100
metric / 16.0	+0.70	minimum 0.635		100
metric / 18.0	+0.70	minimum 0.635		50
metric / 20.0	+0.90	minimum 0.635		50
metric / 25.0	+0.90	minimum 0.635		25
1 inch - 25.40	+0.90	minimum 0.635		25
1/2 inch - 12.70	+0.60	minimum 0.635		100
3/4 inch - 19.10	+0.90	minimum 0.635		25
3/8 inch - 9.50	+0.60	minimum 0.635		100
5/8 inch - 15.90	+0.70	minimum 0.635		100
7/16 inch - 11.10	+0.60	minimum 0.635		100
7/8 inch - 22.20	+0.90	minimum 0.635		25