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## Certified management system by:

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



TECHNICAL DATASHEET

## INDUSTRIES AND APPLICATIONS



# THERMOFLEX H

## Typical uses

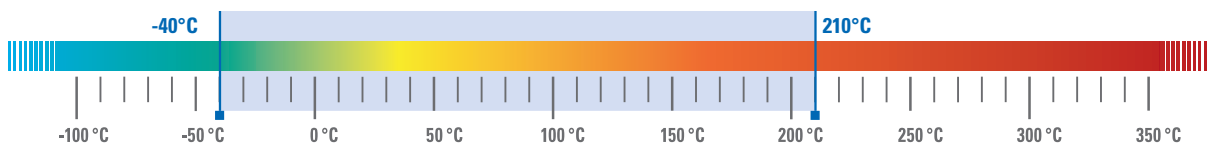
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

## Key properties

- Long-term heat resistance of -40°C to +210°C
- Short-term heat resistance up to +235°C
- Self-extinguishing (UL)
- Glossy and equal silicone coating - easy to assemble
- Thick-walled, thermally insulated
- Good abrasion resistance
- Good resistance to water, salt spray, cleaning agents as well as to fuels and lubricants during temporary exposure
- Good cut resistance
- Good elongation and compressibility
- Physiologically harmless
- Colour: orange
- Nominal diameter 3.0 mm to 30.0 mm



## Application temperature



## Product description

THERMOFLEX H was developed for use in e-mobility and utility vehicles. The THERMOFLEX H protective hose is a combination of a thick-walled braided hose made of textile glass fibres and a special silicone coating. 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. If required, the THERMOFLEX H protective hose is also available by special order in a self-extinguishing version conforming to UL 1441 VW-1 or UL94-V0. THERMOFLEX H is also designed as a crash-protection hose. THERMOFLEX H is a thick-walled, thermal-insulating protective hose with a silicone coating in the signal colour orange.

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INDUSTRIES AND APPLICATIONS



**THERMOFLEX H**

**Application properties**

Property	Standard	Test requirements	Result
Electrical strength	DIN EN 60684	Test at room temperature	>2,50kV
Flame resistance	FMVSS 302	Flame height 38 mm Flame exposure 15 s	Self-extinguishing

**Ageing**

Property	Standard	Test requirements	Result
Short-term ageing 240h / 235°C	LV 312-3	Winding test	Requirements achieved
Long-term ageing 3000h / 210°C	LV 312-3	Winding test	Requirements achieved

**Mechanical / physical properties**

Property	Standard	Test requirements	Result
Abrasion resistance	LV 312-3	Test at room temperature	Classification B

**Ecology, Environment & Safety**

Ingredients compliant with VDA requirements

IMDS listed

RoHS, GADSL compliant

Non-asbestos, textile glass fibres non-carcinogenic, non hazardous to the environment, not hazardous to water

When using and disposing of the THERMOFLEX H perforated protective sleeve there are no environmentally relevant by-products expected.

**BIW-Standard dimensions**

**THERMOFLEX H (Code: GHO)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
3.0	±0.3	1.5	±0.3	100
4.0	±0.3	1.5	±0.3	100
5.0	±0.3	1.5	±0.3	100
6.0	±0.3	1.5	±0.3	100
7.0	±0.3	1.5	±0.3	100
8.0	±0.3	1.5	±0.3	100
9.0	±0.3	1.5	±0.3	100
10.0	±0.5	1.5	±0.3	100
11.0	±0.5	1.5	±0.3	50
12.0	±0.5	1.5	±0.3	50

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*When it comes to competence*

INDUSTRIES AND APPLICATIONS



**THERMOFLEX H**

**BIW-Standard dimensions**

**THERMOFLEX H (Code: GH0)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
13.0	±0.5	1.5	±0.3	50
14.0	±0.5	1.5	±0.3	50
15.0	±0.5	1.5	±0.3	50
16.0	±0.5	1.5	±0.3	50
17.0	±0.5	1.5	±0.3	50
18.0	±0.5	1.5	±0.3	50
19.0	±0.5	1.5	±0.3	50
20.0	±0.8	1.5	±0.5	25
21.0	±0.8	1.5	±0.5	25
22.0	±0.8	1.5	±0.5	25
23.0	±0.8	1.5	±0.5	25
24.0	±0.8	1.5	±0.5	25
25.0	±0.8	1.5	±0.5	25
26.0	±0.8	1.5	±0.5	25
27.0	±0.8	1.5	±0.5	25
28.0	±0.8	1.5	±0.5	25
29.0	±0.8	1.5	±0.5	25
30.0	±0.8	1.5	±0.5	25