

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

INDUSTRIES AND APPLICATIONS



ULTRAFLEX 650R

Typical uses

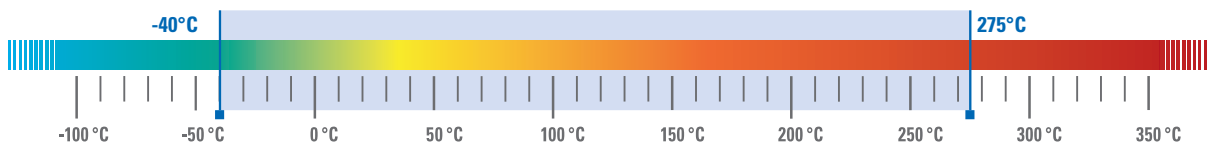
- Automotive industry
- Crash protection
- E-mobility / hybrid
- Cable manufacture
- Line protection

Key properties

- Long-term heat resistance of -40°C to +275°C
- Short-term heat resistance up to +300°C
- Radiant heat resistance up to +650°C
- Heat reflection by aluminium impregnation
- Good abrasion resistance
- High mechanical protection, crash protection
- Extreme radial extensibility
- Good cut resistance and tensile strength
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- Extensible in diameter by up to 100%
- Thick-walled, thermally insulated
- Colour: silver
- Nominal diameter 3,0 mm to 30,0 mm



Application temperature



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Certified management system by:

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TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



ULTRAFLEX 650R

Product description

The ULTRAFLEX 650R protective hose is a combination of textile glass with aluminium impregnation. Because of the thermal requirements, the textile glass is a special thread which ensures an extraordinary thermal insulation due to its special properties. The braided design permits radial expansion of up to 100%, which makes it possible to pull this protective hose over lines, tubes or wiring harnesses. The aluminium impregnation based on a thermally stabilised silicone resin emulsion supports the high thermal resilience by means of additional heat reflection effect. Thus, the ULTRAFLEX 650R protective hose is suited especially for use in thermally exposed places where protection against radiant heat is required such as in an engine compartment or near exhausts.

Application properties

Property	Standard	Test requirements	Result
Flame resistance	FMVSS 302 LV312-3	Flame height 38 mm Flame exposure 15s	Self-extinguishing

Mechanical / physical properties

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

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, non-hazardous to water

The textile glass sleeve requires compliance with the industrial hygiene. Workplace ventilation has to be turned away from the worker, sensitive individuals may get slight skin irritation.

When using and disposing the ULTRAFLEX 650R protective sleeve there are no environmentally relevant by-products expected.

BIW-Standard dimensions

ULTRAFLEX 650R (Code: GCS)

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
3.0	±0.3	1.50	±0.30	100
4.0	±0.3	1.50	±0.30	100
5.0	±0.3	1.50	±0.30	100
6.0	±0.3	1.50	±0.30	100
7.0	±0.5	1.50	±0.30	100
8.0	±0.5	1.50	±0.30	100

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**ULTRAFLEX 650R****BIW-Standard dimensions****ULTRAFLEX 650R (Code: GCS)**

On demand individual dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
9.0	±0.5	1.50	±0.30	100
10.0	±1.0	1.50	±0.30	50
12.0	±1.0	1.50	±0.30	50
14.0	±1.0	1.50	±0.30	50
16.0	±1.0	1.50	±0.30	50
18.0	±1.0	1.50	±0.30	50
20.0	±1.5	1.50	±0.30	25
22.0	±1.5	1.50	±0.30	25
24.0	±1.5	1.50	±0.30	25
26.0	±1.5	1.50	±0.30	25
28.0	±1.5	1.50	±0.30	25
30.0	±2.0	1.50	±0.30	25