

- IATF16949
- ISO9001
- ISO13485
- ISO14001
- ISO50001

## INDUSTRIES AND APPLICATIONS



## ULTRAFLEX 300R

### Typical uses

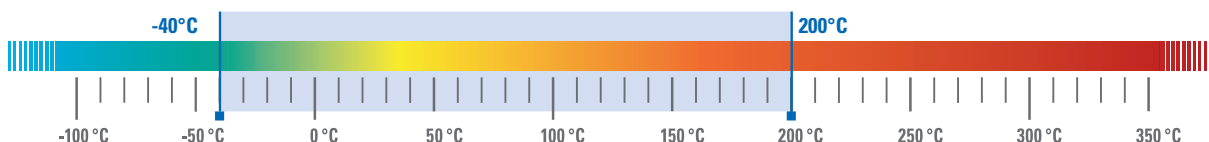
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection

### Key properties

- Long-term heat resistance of -40°C to +200°C
- Short-term heat resistance up to +225°C
- Temperature resistance to radiant heat up to +330°C
- Good resistance to water, water-glycol mixture, salt spray, as well as to fuels and lubricants during temporary exposure
- Dielectric strength can be set of 1,50 kV to 8,0 kV
- Extensible in diameter by up to 100% (special setting)
- Very good compressibility and flexibility
- Glossy and equal silicone coating
- Easy to assemble
- Extreme radial extensibility
- Good cut and bending resistance
- High abrasion resistance
- Physiologically harmless
- Nominal diameter 0.5 mm to 60.0 mm
- Colour: silver gray



### Application temperature



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**ULTRAFLEX 300R**

**Product description**

The ULTRAFLEX 300R protective hose is a combination of an inner textile glass fibre in a special braided construction and a high-quality silicone coating. The special braided design ensures a very high degree of radial expansion capability of up to 100% (special setting) without splaying of the ends for special requirements in cable production. The very smooth and even surface with exceptional roundness ensures a simple processing of the ULTRAFLEX 300R protective hose. The resistance to higher temperatures is extraordinary thanks to the use of an aluminium-based special silicon with corresponding heat-reflecting properties. The ULTRAFLEX 300R exhibits good resistance to fuel and lubricants with temporary effect and very good stability in water, glycol mixtures and cleaning media of all sorts (soaps, cold cleaner, condensate).

**Application properties**

| Property         | Standard              | Test requirements                        | Result                                      |
|------------------|-----------------------|--|---|
| Flame resistance | LV 312-3<br>FMVSS 302 | Flame height 38 mm<br>Flame exposure 15s | Fire classification B<br>self-extinguishing |
| Shrinkage        | LV 312-3              | 15 min. at 225 °C                        | No shrinkage                                |

**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

When using and disposing of the ULTRAFLEX 300R protective sleeve there are no environmentally relevant by-products expected.

**BIW-Standard dimensions**

**ULTRAFLEX 300R (Code: GCX)**

On demand individual dimensions available at any time

| ID [mm] | Tol. ID [mm] | Wd [mm] | Tol. Wd [mm] | Ring [m] |
|---------|--------------|---------|--------------|----------|
| 2.0     | ±0.2         | 0.8     | ±0.2         | 200      |
| 4.0     | ±0.3         | 1.0     | ±0.3         | 200      |
| 6.0     | ±0.3         | 1.2     | ±0.3         | 200      |
| 8.0     | ±0.3         | 1.2     | ±0.3         | 200      |
| 10.0    | ±0.5         | 1.2     | ±0.3         | 100      |
| 12.0    | ±0.5         | 1.5     | ±0.3         | 100      |

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*When it comes  
to competence*

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**ULTRAFLEX 300R**

**BIW-Standard dimensions**

**ULTRAFLEX 300R (Code: GCX)**

On demand individual dimensions available at any time

| ID [mm] | Tol. ID [mm] | Wd [mm] | Tol. Wd [mm] | Ring [m] |
|---------|--------------|---------|--------------|----------|
| 14.0    | ±0.5         | 1.5     | ±0.3         | 50       |
| 16.0    | ±0.7         | 1.5     | ±0.3         | 50       |
| 18.0    | ±0.7         | 1.5     | ±0.3         | 50       |
| 20.0    | ±0.7         | 1.5     | ±0.3         | 50       |
| 22.0    | ±1.0         | 1.5     | ±0.4         | 25       |
| 24.0    | ±1.0         | 1.5     | ±0.4         | 25       |
| 26.0    | ±1.2         | 1.5     | ±0.4         | 25       |
| 28.0    | ±1.2         | 2.0     | ±0.7         | 25       |
| 30.0    | ±1.2         | 2.0     | ±0.7         | 25       |
| 32.0    | ±1.0         | 2.0     | ±0.7         | 25       |
| 34.0    | ±2.5         | 2.0     | ±0.7         | 25       |
| 36.0    | ±2.5         | 2.0     | ±0.7         | 5        |
| 38.0    | ±2.5         | 2.0     | ±0.7         | 5        |
| 40.0    | ±2.5         | 2.0     | ±0.7         | 5        |
| 50.0    | ±2.5         | 2.5     | ±0.7         | 5        |
| 60.0    | ±2.5         | 3.0     | ±0.7         | 5        |