

BIW Isolierstoffe GmbH

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Certified management system by:

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



TECHNICAL DATASHEET

INDUSTRIES AND APPLICATIONS



EXPANDEX 66

Typical uses

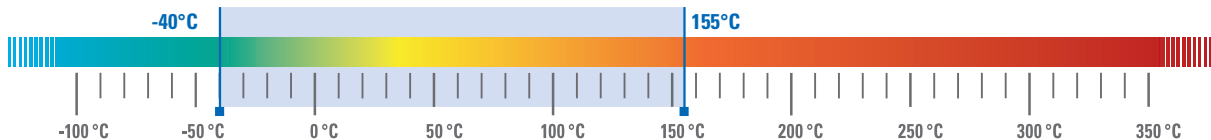
- Automotive industry
- E-mobility / hybrid
- Cable manufacture
- Line protection
- Commercial vehicles

Key properties

- Temperature resistance of -40°C bis +155°C
- Short-term heat resistance up to 180°C
- Very good chemical resistance, especially towards fuels and lubricants
- Very good abrasion resistance
- High mechanical resistance
- Radially extraordinary stretchable
- Colour: orange, black
- Nominal diameter 3,0 mm to 40,0 mm



Application temperature



Product description

The EXPANDEX 66 protective hose is made of polyamide 6.6 monofilaments having high mechanical resistance and being processed to form an open braided design. The hose has outstanding suitability for the bundling of cables and lines. For cuts to length, a hot cutting technique is used in order to prevent the braiding from fraying. Use of a thermoplastic fibre provides thermal resistance of 155°C. Due to the outstanding expandability of up to 100%, the nominal diameter is only a reference value for the application. Practical experiments are always advisable because these protective hoses are very extensible, and a single nominal diameter is often suitable for various bundles of lines. EXPANDEX 66 is designed as a protective hose with high mechanical and chemical resistance and therefore with limited thermal resistance and without a defined breakdown voltage.

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Application properties

Property	Standard	Test requirements	Result
Flame resistance	Based on FMVSS 302	Flame height 38 mm Flame exposure 15s	Self-extinguishing classification B

Mechanical / physical properties

Property	Standard	Test requirements	Result
Abrasion resistance	Based on LV 312-3	Test at room temperature	Classification D

Ecology, Environment & Safety

Ingredients compliant with VDA - requirements

IMDS listed

RoHS, GADSL compliant

Non hazardous to the environment, non-hazardous to water, land-fill disposable.

When using and disposing of the EXPANDEX 66 protective sleeve there are no environmentally relevant co-products expected.

Skin irritations from handling are excluded.

BIW-Standard dimensions

EXPANDEX 66 (Code: PAS)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
3.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	200
4.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	200
5.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	200
6.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	200
7.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	100
8.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	100
9.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	100
10.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	100
15.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	50
20.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	50
25.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	50
30.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	50
35.0	∅ up to 100% expandible	0.40 - 0.80	±0.20	50

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BIW-Standard dimensions

EXPANDEX 66 (Code: PAS)

On demand individual colours and dimensions available at any time

ID [mm]	Tol. ID [mm]	Wd [mm]	Tol. Wd [mm]	Ring [m]
40.0	Ø up to 100% expandible	0.40 - 0.80	±0.20	50