

- **Clean transfer:** hose assemblies for highest media purity requirements
- ultra smooth lining of Teflon® PTFE
- flexible, homogeneous, kink resistant, pressure and vacuum resistant elastomer hose construction to DIN EN 16820
- as ELAPHARM (non electrically conductive) or ELAPHARM OHM (fully electrically conductive)
- nominal bore DN 13 – 50 mm
- temperature up to +150° C, vacuum 0,8 bar, PN 16

The homogeneous hose construction of ELAPHARM where all layers incl. the lining are permanently bonded to each other results in a good kink and vacuum resistance and assists durability and flexibility.

The FDA/USP Class VI conform PTFE liner is suitable for commonly used media in the pharmaceutical, chemical and biotech industries. It is easy to clean and also suitable for highly viscous media.

There is a choice of fittings, e.g. **free of dead spaces/flared**, meaning the PTFE lining flared over ends, no entrapment.

Hose assembling to customer specification is done in-house by Elaflex, straight from the reel – for a fast delivery of your assemblies.

| Hose Weight ≈kg/m | HOSE SIZE | | | Working Pressure bar | Test Pressure bar | max. Vacuum bar | Bending Radius mm | Reel Length ≈ m | PART NUMBER Type |
|----------------------|-----------|------|------|-------------------------|----------------------|--------------------|----------------------|--------------------|-------------------------|
| | IDin. | IDmm | ODmm | | | | | | |
| 0,4 | 1/2" | 13 | 23 | 16 | 25 | 0,8 | 110 | 40 | EPH 13 |
| 0,5 | 5/8" | 16 | 27 | | | | 140 | | EPH 16 |
| 0,6 | 3/4" | 19 | 31 | | | | 170 | | EPH 19 |
| 0,9 | 1" | 25 | 37 | | | | 105 | | EPH 25 |
| 1,2 | 1¼" | 32 | 44 | | | | 110 | | EPH 32 |
| 1,3 | 1½" | 38 | 51 | | | | 145 | | EPH 38 |
| 2,3 | 2" | 50 | 66 | | | | 210 | | EPH 50 |

ELAPHARM electrically isolating 'I', blue cover. Corresponds to DIN EN 16820, Type B. Homogeneous elastomer hose construction with smooth, white Teflon® PTFE liner.

Type EPH



- Lining : Teflon® PTFE white, permanently bonded with reinforcement, non electrically conductive, seamless, smooth, FDA conform*).
- Reinforcements : DN 13-19 stainless steel braids, no helix
DN 25-50 high-tensile, temperature resistant textile braids, stainless steel helix
- Cover : EPDM blue, satin finish, non electrically conductive.

Application: Hose assemblies for use in the pharmaceutical and biotech industries as well as chemicals.

Suitable for all commonly used media. Temperature range -30°C up to +150°C depending on medium, working pressure from -0,8 bar (vacuum) up to 16 bar.

Supplied in fitted lengths complete with crimped end fittings. Choice of connection types and mounting systems (see overleaf).

Marking on coupling ferrule (example):

ELAFLEX · Type · DN · Hose Length · DIN · PTFE · Serial Number · PT (bar) · Month·Year

Hose Marking: DN · Quarter-Year · Batch-No. and

ELAPHARM® · DIN EN 16820 · B:FDA · PTFE · SD · Isolating · 16/-0,8 bar · -30°C +150°C · ELAFLEX ·

ELAPHARM® OHM · DIN EN 16820 · B:FDA · PTFE · SD · Ω/T · 16/-0,8 bar · -30°C +150°C · ELAFLEX ·

ELAPHARM OHM G electrically conductive 'Ω/T', light grey cover. Corresponds to DIN EN 16820, Type B. Homogeneous elastomer hose construction with smooth, black Teflon® PTFE liner.

Type EPH-OHM G



Ω/T
DIN EN 16820

- Lining : Teflon® PTFE black, permanently bonded with reinforcement, electrically conductive, seamless, smooth, FDA conform*).
- Reinforcements : DN 13-19 stainless steel braids, no helix
DN 25-50 high-tensile, temperature resistant textile braids, stainless steel helix
- Cover : EPDM light grey with OHM conductive stripe, satin finish, electrically conductive.

| | | | | | | | | | |
|-----|------|----|----|----|----|-----|-----|----|--------------|
| 0,4 | 1/2" | 13 | 23 | 16 | 25 | 0,8 | 110 | 40 | EPH-OHM 13 G |
| 0,5 | 5/8" | 16 | 27 | | | | 140 | | EPH-OHM 16 G |
| 0,6 | 3/4" | 19 | 31 | | | | 170 | | EPH-OHM 19 G |
| 0,9 | 1" | 25 | 37 | | | | 105 | | EPH-OHM 25 G |
| 1,2 | 1¼" | 32 | 44 | | | | 110 | | EPH-OHM 32 G |
| 1,3 | 1½" | 38 | 51 | | | | 145 | | EPH-OHM 38 G |
| 2,3 | 2" | 50 | 66 | | | | 210 | | EPH-OHM 50 G |

*) Lining corresponds to FDA guideline 21 CFR 177.1550 and CFR 178.3297 as well as USP Class VI.

Clean Connection.

Elaflex supplies all ELAPHARM hose assemblies in fitted lengths, with crimped couplings.

- In your enquiry please provide us with the requested coupling type.

For ELAPHARM we offer among other the following coupling types with integrated hose tail.

Screw, flange and clamp connections to

DIN 32676 ('Tri Clamp')

DIN 11864 - 1/-2/-3 ('Aseptic')

DIN 11853 - 1/-2/-3 ('Hygiene')

DIN 11851 ('Foodstuff Thread')

EN 14420-7 ('Cam Locking Couplings')

Flanges e.g. EN 1092-1

Welding Nipples acc. DIN 11866

Other on request.

- In your enquiry please provide us with the requested mounting system.

For pharmaceuticals, biotech media and foodstuffs we suggest the following two systems.

Crimping 'free of dead spaces/flared'

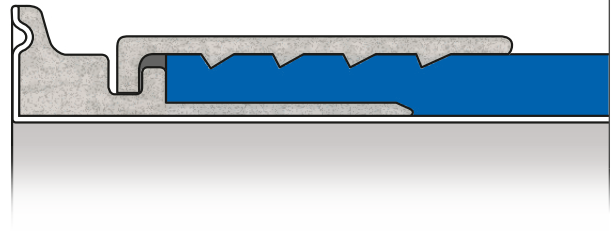
Crimped hose coupling, PTFE lining flared over ends (patented process). No entrapment, use for highest media purity requirements. Usually used with DIN 32676 (Triclamp), foodstuff thread DIN 11851 or flanged hose couplings.

Crimping 'gap minimised'

Crimped hose coupling with flush-mounted hose tail. No obstruction of inner cross-section, almost no gap or dead volume between lining and hose tail. For high purity requirements. Suitable for all coupling types.

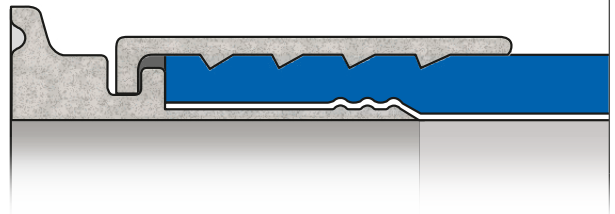


Crimping
'free of dead spaces / flared'



Materials: coupling with hose tail stainless steel 1.4404, crimping ferrule stainless steel 1.4301

Crimping
'gap minimised'



Materials: coupling with hose tail e.g. stainless steel 1.4404, crimping ferrule stainless steel 1.4301, surface finish Ra < 0,8 µm

CONFIGURE ONLINE:
hoseconfigurator.elaflex.de

