

LEONI tube-fit FR-line

Polyurethane hoses

For industrial applications, especially for robotic and welding equipment LEONI has developed the halfstiff and flame-retardant Polyurethane hoses as a transmission medium for compressed air and (cooling) water.

Mechanical and chemical properties

- Silicon free
- Halogen free
- Flame resistant, according to UL 94-V0, self-extinguishing
- Resistance to oil elements / mineral oil / oxygene / ozone / weak acids / diluted base
- UV resistant
- Abrasion resistant
- Working temperature range: -30 °C to +90 °C

Part-No. FR + Type + colour/Example: FR 10 x 14 V-GN

Standard packaging 50 m-coils

Colours V-GN = green, B-BU = blue, R-RD = red, J-YE = yellow, N-BK = black, G-GY = grey, M-BN = brown **Colour code according to DIN IEC 757**

Fittings Hosetypes are compatible with all approved fittings (see backside)

Technical data (other dimensions on request)

Type	Inner-Ø mm	Outer-Ø mm	Wallthickness mm	Max. Working press. MPa ¹	Min. burst press. MPa ¹	Vacuum MPa ¹	Min. bending radius stat./mm ¹	Min. bending radius dyn./mm ¹
4 x 6	4	6 ± 0.10	1.0	1.0	3.0	0.09	15	35
4 x 8	4	8 ± 0.15	2.0	1.6	4.8	0.09	15	40
5.5 x 8	5.5	8 ± 0.15	1.25	1.2	3.6	0.09	20	50
6 x 10	6	10 ± 0.15	2.0	1.6	4.8	0.09	20	50
7 x 10	7	10 ± 0.15	1.5	1.2	3.6	0.09	20	50
8 x 12	8	12 ± 0.15	2.0	1.3	3.9	0.09	25	65
10 x 14	10	14 ± 0.15	2.0	1.2	3.6	0.09	35	85

¹ indicative value at 20 °C subject to modification in case of e.g. low temperature and/or high temperature

LEONI



LEONI tube-fit FR-line

Fittings

Fittings are used for air- and water supply

Working pressure: -0.98 bar up to 18 bar

Temperature range: -20 °C up to +80 °C

Fitting (female thread)

Type A – Straight



Ø	04	04	04	06	06	06	08	08	08	10	10	10	10	12	12
Thread	M5	1/8	1/4	M5	1/8	1/4	1/8	1/4	3/8	1/8	1/4	3/8	1/2	3/8	1/2

Fitting (male thread)

Type E – Straight



Ø	04	04	04	06	06	06	08	08	08	10	10	10	10	12	12	12	14	14
Thread	M5	1/8	1/4	M5	1/8	1/4	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	3/8	1/2

90° angled fitting rotatable (male thread)

Type D – Angle 90°



Ø	04	04	04	06	06	06	08	08	08	10	10	10	10	12	12	12	14	14
Thread	M5	1/8	1/4	M5	1/8	1/4	1/8	1/4	3/8	1/8	1/4	3/8	1/2	1/4	3/8	1/2	3/8	1/2

Prices and additional fittings on request.

Unless otherwise agreed our general conditions of sale and delivery shall apply.