## Other and special hoses - PVC extraction hoses



# LIGHTFLEX

### Lightweight PVC extraction hose

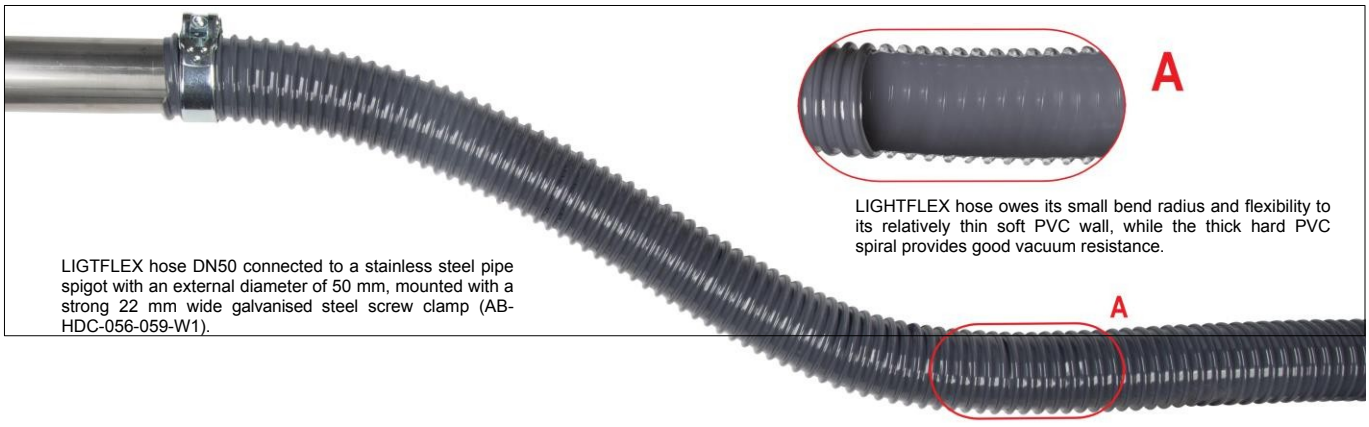
**Hose material:** Soft grey PVC
**Reinforcement:** Hard PVC spiral
**Operating temp:** -15°C to +60°C (temperature-dependent operating vacuum)

Lightweight, flexible, flexible and almost smooth inside soft polyvinyl chloride (PVC) hose reinforced with hard PVC spiral (right-handed). Designed for the extraction of dust, smoke, fibres, polluted air extraction, etc. Also used for draining condensate in air-conditioning systems and as a covering for hoses and cables. Hose assembly with hose clamps on suitable ends, pipe spigots, etc.

| index | internal diameter [mm] | external diameter [mm] | overall thickness [mm] | vacuum 23ºC [bar]. | bend radius [mm] | mass [kg/m] | Roll length [m] |
|---|---|---|---|---|---|---|---|
| FT-LIGHTFLEX-019 | 19 | 23,8 | 2,4 | 0,3 | 19 | 0,11 | 50 |
| FT-LIGHTFLEX-025 | 25 | 30 | 2,5 | 0,3 | 25 | 0,14 | 50 |
| FT-LIGHTFLEX-030 | 30 | 35,4 | 2,7 | 0,3 | 30 | 0,20 | 50 |
| FT-LIGHTFLEX-032 | 32 | 37,4 | 2,7 | 0,3 | 32 | 0,22 | 50 |
| FT-LIGHTFLEX-035 | 35 | 40,6 | 2,8 | 0,3 | 35 | 0,24 | 50 |
| FT-LIGHTFLEX-038 | 38 | 44,2 | 3,1 | 0,3 | 38 | 0,27 | 50 |
| FT-LIGHTFLEX-040 | 40 | 46,4 | 3,2 | 0,3 | 40 | 0,28 | 50 |
| FT-LIGHTFLEX-050 | 50 | 57,2 | 3,6 | 0,3 | 50 | 0,45 | 50 |
| FT-LIGHTFLEX-060 | 60 | 68,4 | 4,2 | 0,2 | 60 | 0,54 | 50 |
| FT-LIGHTFLEX-063 | 63 | 71,4 | 4,2 | 0,2 | 63 | 0,565 | 50 |
| FT-LIGHTFLEX-070 | 70 | 78,4 | 4,2 | 0,2 | 70 | 0,64 | 50 |
| FT-LIGHTFLEX-076 | 76 | 84,6 | 4,3 | 0,2 | 76 | 0,69 | 50 |
| FT-LIGHTFLEX-080 | 80 | 89,4 | 4,7 | 0,2 | 80 | 0,78 | 50 |
| FT-LIGHTFLEX-090 | 90 | 99,4 | 4,7 | 0,2 | 90 | 0,90 | 50 |
| FT-LIGHTFLEX-100 | 100 | 109,6 | 4,8 | 0,2 | 100 | 0,99 | 30 |
| FT-LIGHTFLEX-110 | 110 | 119,6 | 4,8 | 0,1 | 110 | 1,16 | 30 |
| FT-LIGHTFLEX-120 | 120 | 130 | 5,0 | 0,1 | 120 | 1,20 | 30 |
| FT-LIGHTFLEX-125 | 125 | 135,2 | 5,1 | 0,1 | 125 | 1,31 | 30 |
| FT-LIGHTFLEX-130 | 130 | 140,6 | 5,3 | 0,1 | 130 | 1,40 | 30 |
| FT-LIGHTFLEX-140 | 140 | 151 | 5,5 | 0,1 | 140 | 1,55 | 30 |
| FT-LIGHTFLEX-150 | 150 | 161,6 | 5,8 | 0,1 | 150 | 1,67 | 30 |

Temperature dependence of burst pressure and working pressure for typical PVC hoses. For vacuum, the decrease in the mechanical properties of PVC with temperature may result in a greater tendency to collapse under vacuum, particularly when the bend radius of the hose is small.

| temperature | 20ºC | 30ºC | 40ºC | 50ºC | 60ºC | 70ºC |
|---|---|---|---|---|---|---|
| pressure | 100% | 74% | 55% | 40% | 30% | 22% |




LIGTFLEX hose DN50 connected to a stainless steel pipe spigot with an external diameter of 50 mm, mounted with a strong 22 mm wide galvanised steel screw clamp (AB-HDC-056-059-W1).

LIGHTFLEX hose owes its small bend radius and flexibility to its relatively thin soft PVC wall, while the thick hard PVC spiral provides good vacuum resistance.