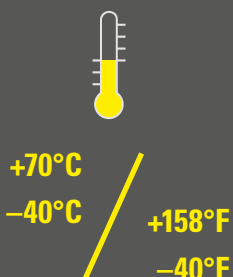
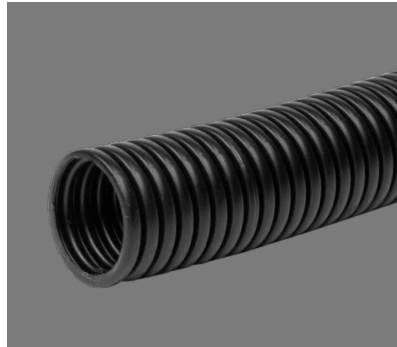


### FPES

标准波纹管

*Corrugated conduit for bundling and leading wires*



|                                            | min. |  |  |  |  | max. |  |  |  |  |
|--------------------------------------------|------|--|--|--|--|------|--|--|--|--|
| 温度范围<br><i>Temperature range</i>           |      |  |  |  |  |      |  |  |  |  |
| 柔韧性<br><i>Flexibility/Ductility</i>        |      |  |  |  |  |      |  |  |  |  |
| 动态性能<br><i>Dynamic</i>                     |      |  |  |  |  |      |  |  |  |  |
| 机械保护性能<br><i>Mechanical protection</i>     |      |  |  |  |  |      |  |  |  |  |
| 防火性能<br><i>Fire precaution performance</i> |      |  |  |  |  |      |  |  |  |  |
| 耐化学性能<br><i>Chemical resistance</i>        |      |  |  |  |  |      |  |  |  |  |
| 耐候性<br><i>Resistance to weathering</i>     |      |  |  |  |  |      |  |  |  |  |

材料: **PE LD BS**

柔性FPES 由改性的低密度PE (PE LD) 制成, 非常适合用于配电柜内捆绑和梳理线缆。这种管子提供了理想的配电柜门和面板之间导线的梳理, 并保护电缆不被磨损。

**Material: PE LD BS**

*The very pliable FPES made of modified Low Density Polyethylene (PE LD), is preferably used for bundling and leading wires and cables within switchboard cupboards. This conduit offers ideal guidance of conductors between cupboards and doors with integrated control panels and protect them from abrasion.*

## FPES

### 产品性能 / *Product performances*

| 应用性能 / <i>Application performances</i>          | 特性<br><i>Characteristics</i>      | 单位<br><i>Unit</i> | 规范标准<br><i>Standards, specifications</i> | 备注<br><i>Remark</i>            |
|-------------------------------------------------|-----------------------------------|-------------------|------------------------------------------|--------------------------------|
| 温度范围<br><i>Temperature range</i>                | -40 到 / to +70<br>-40 到 / to +158 | °C<br>°F          | IS FIP                                   |                                |
| 温度 (短周期)<br><i>Temperatur (short-term)</i>      | 90 (500 h)<br>194 (500 h)         | °C<br>°F          | IS FIP                                   |                                |
| <b>机械性能 / <i>Mechanical performances</i></b>    |                                   |                   |                                          |                                |
| 冲击性能<br><i>Impact strength</i>                  | 2                                 | J                 | IS FIP                                   | -15°C / 5°F                    |
| <b>防火性能 / <i>Fire safety performances</i></b>   |                                   |                   |                                          |                                |
| 不含卤素和镉<br><i>Free from halogens and cadmium</i> | 是 / yes                           |                   |                                          |                                |
| 阻燃等级<br><i>Fire classification</i>              | HB (V2)                           |                   | UL 94                                    |                                |
| 易燃性<br><i>Flammability</i>                      | 自熄<br><i>self-extinguishing</i>   |                   | FMVSS 302                                |                                |
| <b>耐候性 / <i>Weathering performances</i></b>     |                                   |                   |                                          |                                |
| UV及耐候性<br><i>UV and weathering performance</i>  | 一般<br><i>marginal to average</i>  |                   | IS FIP                                   | 2 到 5 年<br><i>2 to 5 years</i> |

测试条件参照EN ISO 139 温度23°C, 湿度 / 50% (如未注明测试条件)。IS FIP = FIP内部测试规范。  
 Tests carried out acc. EN ISO 139 at 23°C / 50% r. h. (if not indicated different). IS FIP = Internal Specification FIP

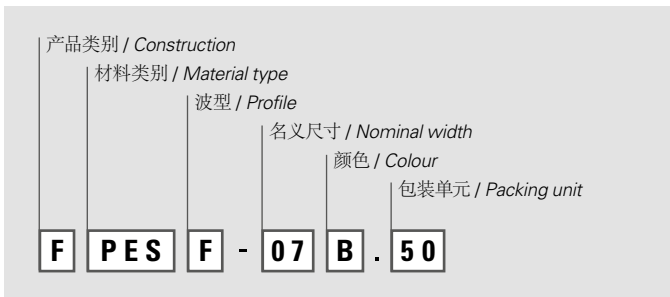
| 产品号<br>Part No. |              |              | 名义尺寸<br>Nominal width |       | 波型<br>Profile | 尺寸 (mm)<br>Dimensions in mm (nom.) |         | 弯曲半径 (mm)<br>Bending radius in mm |         | 包装单元<br>PU |
|-----------------|--------------|--------------|-----------------------|-------|---------------|------------------------------------|---------|-----------------------------------|---------|------------|
| 黑色 / black      | 灰色 / grey    | 本色 / natural | NW                    | metr. |               | ID                                 | 外径 / OD | stat. R.                          | dyn. R. | m          |
| FPESF-07B.50    | FPESF-07G.50 | FPESF-07N.50 | 07                    | 10    | F             | 6,6                                | 10,0    | 15                                | 40      | 50         |
| FPESF-10B.50    | FPESF-10G.50 | FPESF-10N.50 | 10                    | 12    | F             | 9,8                                | 12,8    | 20                                | 45      | 50         |
| FPESF-12B.50    | FPESF-12G.50 | FPESF-12N.50 | 12                    | 16    | F             | 12,3                               | 15,7    | 25                                | 55      | 50         |
| FPESF-17B.50    | FPESF-17G.50 | FPESF-17N.50 | 17                    | 20    | F             | 16,6                               | 21,1    | 30                                | 65      | 50         |
| FPESF-23B.50    | FPESF-23G.50 | FPESF-23N.50 | 23                    | 25    | F             | 23,1                               | 28,4    | 40                                | 90      | 50         |
| FPESF-29B.50    | FPESF-29G.50 | FPESF-29N.50 | 29                    | 32    | F             | 28,9                               | 34,5    | 50                                | 110     | 50         |
| FPESF-36B.25    | FPESF-36G.25 | FPESF-36N.25 | 36                    | 40    | F             | 36,5                               | 42,4    | 60                                | 155     | 25         |
| FPESF-48B.25    | FPESF-48G.25 | FPESF-48N.25 | 48                    | 50    | F             | 47,5                               | 54,4    | 70                                | 170     | 25         |

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\* 请参照PM sheet [www.fraenkische.com/pm-sheet-inch](http://www.fraenkische.com/pm-sheet-inch) 查询英制尺寸 / Please refer to the according PM sheet via [www.fraenkische.com/pm-sheet-inch](http://www.fraenkische.com/pm-sheet-inch) for the measurements in inch.

### 产品代码 / Number code:



细波型 F / Fine profile F

更小的弯曲半径 / Tight bending radius

弯曲半径 / Bending radius

stat. R = 静态最小弯曲半径  
lowest recommended bending radius for static (fixed) installation

dyn. R = 动态最小弯曲半径  
lowest recommended bending radius for dynamic (flexible) installation

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- 预装状态，拿来即用 / *pre-assembled and ready to fit*
- 易选型 / *easy selection*
- 易备库 / *lower storage effort*
- 易管理 / *little handling necessary*
- 易安装 / *faster installation*



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