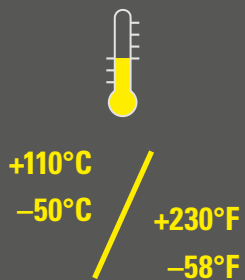
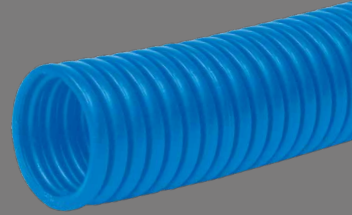


## FPDS-A

### 波纹管 / Corrugated conduit

具有优异抗疲劳性能用于线束需要特殊标记的场合的蓝色波纹管  
in blue with excellent fatigue strength for marking special wiring



#### Material: PA12 MOD BS 蓝色/色号 RAL5015

FPDS-A 波纹管由特殊改性的尼龙12材料制成。材料自熄，具有非常高的抗弯曲疲劳性能，适用于长期动态应用场合。并且在低温及干燥环境下的机械性能优异。而且有非常好的耐UV/耐候性能及耐化学品性能。

#### Material: PA12 MOD BS blue according to RAL5015

The FPDS-A corrugated conduit made of specially modified Polyamide 12, provides self-extinguishing fire characteristics and very high fatigue strength against continous dynamic flexing movements. These corrugated conduit also offers good mechanical strength regarding physical impacts also in cold and dry environments. Good UV / weather and chemical resistance accomplishes this product.

## FPDS-A

### 产品性能 / Product performances

| 应用性能<br>Application performances             | 特性<br>Characteristics                                | 单位<br>Unit | 规范标准<br>Standards, specifications          | 备注<br>Remark                       |
|----------------------------------------------|------------------------------------------------------|------------|--------------------------------------------|------------------------------------|
| 温度范围<br>Temperature range                    | -50 到 / to +110<br>-58 到 / to +230                   | °C<br>°F   | IS FIP                                     |                                    |
| 温度 (短周期)<br>Temperatur (short-term)          | 150 (500 h); 165 (100 h)<br>302 (500 h); 329 (100 h) | °C<br>°F   | IS FIP                                     |                                    |
| 填充率 (最大)<br>Filling ratio (max.)             | 70                                                   | %          | IS FIP                                     | 推荐<br>recommendation               |
| 机械性能 / Mechanical performances               |                                                      |            |                                            |                                    |
| 冲击强度<br>Impact strength                      | 6                                                    | J          | IS FIP                                     | 23°C / 73,4°F                      |
| 冲击强度<br>Impact strength                      | 1                                                    | J          | IS FIP                                     | -45°C / -49°F                      |
| 峰值负载<br>Peak load value                      | 125                                                  | N          | 参照 IEC EN 61386 / according to IEC EN61386 |                                    |
| 拔脱强度<br>Pull out strength                    | 250                                                  | N          | 参照 IEC EN 61386 / according to IEC EN61386 | 23°C / 73,4°F<br>FIPLOCK ONE NW 17 |
| 防火性能 / Fire safety performances              |                                                      |            |                                            |                                    |
| 不含卤素和镉<br>Free from halogens and cadmium     | 是 / yes                                              |            |                                            |                                    |
| 阻燃等级<br>Fire classification                  | V2                                                   |            | UL 94                                      |                                    |
| 产品防火性能<br>Fire characteristic of the product | 自熄<br>self-extinguishing                             |            | UL 1696                                    |                                    |
| 易燃性<br>Flammability                          | 自熄<br>self-extinguishing                             |            | FMVSS 302                                  |                                    |
| 氧指数<br>Oxygen index                          | 32                                                   | %          | EN ISO 4589-2                              |                                    |
| 灼热丝测试<br>Glow wire test                      | 850<br>1562                                          | °C<br>°F   | IEC 60695                                  |                                    |
| 火灾危害等级<br>Fire hazardous level               | HL3 R22<br>HL3 R23                                   |            | EN45545-2                                  |                                    |
| 火焰蔓延<br>Spread of fire                       | 非火焰蔓延<br>non flame propagating                       |            | IEC EN 61386                               |                                    |
| 耐候性 / Weathering performances                |                                                      |            |                                            |                                    |
| UV及耐候性<br>UV and weathering performance      | 优异<br>excellent                                      |            | IS FIP                                     | 可达 20 年<br>up to 20 years          |

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 |       | 接头系统<br>Fitting system | 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 |
|---------------------|-----------------------|-------|------------------------|---------------|---------------------------------------|---------|-----------------------------------|---------|------------|
| 蓝色 / blue (RAL5015) | NW                    | metr. |                        |               | ID                                    | 外径 / OD | stat. R.                          | dyn. R. | m          |
| FPDSF-07A3.50       | 7                     | 10    | FIPLOCK®<br>ONE        | F             | 6,2                                   | 10,0    | 15                                | 40      | 50         |
| FPDSF-10A3.50       | 10                    | 12    |                        | F             | 9,6                                   | 12,8    | 20                                | 45      | 50         |
| FPDSF-12A3.50       | 12                    | 16    |                        | F             | 12,0                                  | 15,7    | 25                                | 55      | 50         |
| FPDSF-17A3.50       | 17                    | 20    |                        | F             | 16,6                                  | 21,1    | 30                                | 65      | 50         |
| FPDSF-23A3.50       | 23                    | 25    |                        | F             | 22,6                                  | 27,9    | 35                                | 80      | 50         |
| FPDSF-29A3.50       | 29                    | 32    |                        | F             | 29,0                                  | 33,8    | 45                                | 100     | 50         |
| FPDSF-36A3.25       | 36                    | 40    |                        | F             | 36,5                                  | 42,2    | 60                                | 155     | 25         |
| FPDSF-48A3.25       | 48                    | 50    |                        | F             | 47,5                                  | 54,0    | 70                                | 170     | 25         |
| FPDSC-17A3.50       | 17                    | 20    |                        | C             | 16,1                                  | 21,1    | 30                                | 75      | 50         |
| FPDSC-23A3.50       | 23                    | 25    |                        | C             | 22,0                                  | 28,3    | 40                                | 90      | 50         |
| FPDSC-29A3.50       | 29                    | 32    |                        | C             | 28,3                                  | 34,4    | 50                                | 110     | 50         |
| FPDSC-36A3.25       | 36                    | 40    |                        | C             | 36,6                                  | 42,2    | 55                                | 170     | 25         |
| FPDSC-48A3.25       | 48                    | 50    |                        | C             | 47,0                                  | 54,0    | 65                                | 190     | 25         |
| FPDSC-56A3.25       | 56                    | 68    | FIPLOCK®<br>XL         | C             | 56,3                                  | 67,2    | 100                               | 250     | 25         |
| FPDSC-70A3.25       | 70                    | 80    |                        | C             | 67,2                                  | 79,6    | 135                               | 320     | 25         |
| FPDSC-95A3.10       | 95                    | 106   |                        | C             | 91,3                                  | 106,0   | 150                               | 420     | 10         |
| FPDSC-125A3.10      | 125                   | 146   |                        | C             | 126,5                                 | 146,5   | 320                               | 460     | 10         |

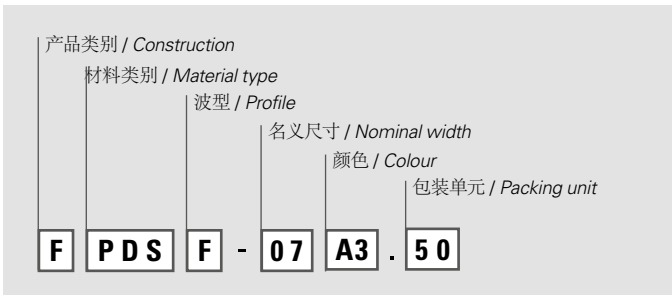
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Please contact our local distribution partner or our customer service regarding product availability, lead time, other sizes and colours.

\* 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:



细波形 F / Fine profile F

更小的弯曲半径 / Tight bending radius

粗波形 C / Coarse profile C

更高的拔脱强度 / High pull-out strength

弯曲半径 / Bending radius

stat. R = 用于静态安装使用的最小弯曲半径  
lowest recommended bending radius for static (fixed) installation

dyn. R = 用于动态安装使用的最小弯曲半径  
lowest recommended bending radius for dynamic (flexible) installation

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系统解决方案 / *The system solution:*

## FIPLOCK® ONE – One fits all

- 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*
- 省成本 / *cost saving*



## FIPLOCK® XL

**NEW**

适用于NW56以上管径波纹管。

*Also for cable conduits from nominal diameter 56.*

更多信息:  
*Further information:*



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有直型及90° 角度可  
选。

*Available in straight  
and 90° angle design.*

