

FPAS

波纹管

Corrugated conduit

+120°C +248°F
-50°C -58°F

Material: PA6 MOD BS



- 可用于各种线缆线束保护应用
 - 自熄, 不含卤素和镉
 - 优异的抗冲击性能, 及抗压性能
 - 弯曲性能好
 - 耐化学品性能好
 - 耐候性及耐UV性能好
- Allrounder for various cable protection applications
 - self-extinguishing, free of halogen and cadmium
 - excellent impact resistance, compression strength
 - good flexibility quality
 - very good chemical resistance
 - good weathering performances and UV-resistance

温度范围 / Temperature range
弯曲性能 / 柔性 / Flexibility/Ductility
动态性能 / Dynamic
机械防护性能 / Mechanical protection
防火性能 / Fire precaution performance
耐化学品性能 / Chemical resistance
耐候性 / Resistance to weathering

| min. | | max. | |
|------|--|------|--|
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| 产品号 Part No. ¹⁾ | | 名义尺寸 Nominal width | | 接头系统 Fitting system | 波型 Profile ²⁾ | 尺寸 Dimensions in mm (nom.) ³⁾ | | 弯曲半径 Bending radius in mm | 包装单元 PU |
|-------------------------------|----------------|-----------------------|-------|------------------------|-----------------------------|--|---------|---------------------------------|------------|
| 黑色 / black | 灰色 / grey | NW | metr. | | | 内径 / ID | 外径 / OD | | |
| FPASF-07B.50 | FPASF-07G.50 | 07 | 10 | FIPLOCK® ONE | F | 6,2 | 10,0 | 15 | 50 |
| FPASF-10B.50 | FPASF-10G.50 | 10 | 12 | | F | 9,6 | 12,8 | 20 | 50 |
| FPASF-12B.50 | FPASF-12G.50 | 12 | 16 | | F | 12,0 | 15,7 | 30 | 50 |
| FPASF-17B.50 | FPASF-17G.50 | 17 | 20 | | F | 16,6 | 21,1 | 35 | 50 |
| FPASF-23B.50 | FPASF-23G.50 | 23 | 25 | | F | 22,6 | 28,4 | 40 | 50 |
| FPASF-29B.50 | FPASF-29G.50 | 29 | 32 | | F | 29,0 | 34,5 | 50 | 50 |
| FPASF-36B.25 | FPASF-36G.25 | 36 | 40 | | F | 36,5 | 42,4 | 55 | 25 |
| FPASF-48B.25 | FPASF-48G.25 | 48 | 50 | | F | 47,5 | 54,4 | 65 | 25 |
| FPASC-17B.50 | FPASC-17G.50 | 17 | 20 | | C | 16,1 | 21,1 | 35 | 50 |
| FPASC-23B.50 | FPASC-23G.50 | 23 | 25 | | C | 22,4 | 28,5 | 40 | 50 |
| FPASC-29B.50 | FPASC-29G.50 | 29 | 32 | | C | 28,3 | 34,7 | 50 | 50 |
| FPASC-36B.25 | FPASC-36G.25 | 36 | 40 | | C | 35,8 | 42,4 | 55 | 25 |
| FPASC-48B.25 | FPASC-48G.25 | 48 | 50 | | C | 46,7 | 54,5 | 65 | 25 |
| FPASC-56B.25 | FPASC-56G.25 | 56 | 68 | | C | 56,3 | 67,2 | 100 | 25 |
| FPASC-70B.25 | FPASC-70G.25 | 70 | 80 | C | 67,2 | 79,6 | 130 | 25 | |
| FPASC-95B.10 | FPASC-95GB.10 | 95 | 106 | C | 91,9 | 106,0 | 170 | 10 | |
| FPASC-125B.10 | FPASC-125GB.10 | 125 | 146 | C | 126,5 | 146,5 | 380 | 10 | |

您可以通过以下地址查询更多的技术信息 / You can find more technical information here

CADENAS – 产品CAD数据目录 / eCATALOGsolutions electronic CAD catalog: <https://fraenkische-ip.partcommunity.com>

¹⁾ FIPLOCK® 波纹管编码规则 / Part numbering key for FIPLOCK® corrugated conduits: www.fraenkische-ip.com/fiplock-part-no

²⁾ 波纹管波型 / Conduit profiles: www.fraenkische-ip.com/fipsystems-profiles

³⁾ 英制尺寸转换 / Conversion to inch: www.fraenkische-ip.com/fipsystems-conversion-inch

产品认证报告基于FPASFNW 07-48及FPASFNW 17-48连接FIPLOCK® ONE管接头。

Recognised Component certification is valid for FPASFNW 07-48 and FPASFNW 17-48 in connection with FIPLOCK® ONE fittings.



FPAS 产品性能 / Product performances

| 应用性能 <i>Application performances</i> | 特性 <i>Characteristics</i> | 单位 <i>Unit</i> | 规范标准 <i>Standards, specifications</i> | 备注 <i>Remark</i> |
|--|--|-------------------|--|-----------------------------|
| 温度范围 / <i>Temperature range</i> | -50 到 / <i>to</i> +120 -58 到 / <i>to</i> +248 | °C °F | IEC EN 61386 | 弯曲性能 / <i>flexible</i> |
| 温度 (短周期) / <i>Temperature (short-term)</i> | 150 (500 h); 165 (100 h) 302 (500 h); 329 (100 h) | °C °F | IS FIP | |
| 填充率 (最大) / <i>Filling ratio (max.)</i> | 70 | % | IS FIP | 推荐值 / <i>Recommendation</i> |

| 机械性能 / <i>Mechanical performances</i> | | | | |
|---------------------------------------|-------|-------|---------------|---|
| 冲击强度 / <i>Impact strength</i> | 2 | J | IEC EN 61386 | -45°C / -49°F |
| 冲击强度 / <i>Impact strength</i> | 1J/2J | Joule | FIP-ISTR-1601 | -50°C bis / -58°F |
| 峰值负载 / <i>Peak load value</i> | 320 | N | IEC EN 61386 | |
| 弯曲测试 / <i>Flexing test</i> | 5000 | | IEC EN 61386 | -45°C / -49°F +120°C / +248°F FPASF & FPASC NW17 |
| 拔脱强度 / <i>Pull out strength</i> | 500 | N | IEC EN 61386 | NW17 配合 / <i>with</i> ASPA-17M25PB |

| 防火性能 / <i>Fire safety performances</i> | | | | |
|--|--|--------|--------------------------|--|
| 不含卤素和镉 / <i>Free from halogens and cadmium</i> | 是 / <i>yes</i> | | DIN EN ISO 63355:2023-08 | |
| 阻燃等级 / <i>Fire classification</i> | V2 | | UL 94 | |
| 防火特性 / <i>Fire characteristic</i> | 自熄 / <i>self-extinguishing</i> | | UL 1696 | |
| 氧指数 / <i>Oxygen index</i> | >32 | % | EN ISO 4589-2 | |
| 灼热丝测试 / <i>Glow wire test</i> | 900 | °C | IEC-60695-2-12 | 0,9 mm |
| 火灾危害等级 / <i>Fire hazardous level</i> | HL3 R22/R23 | | EN45545-2 | |
| 火焰蔓延指数 / <i>Flame spread index</i> | 符合 / <i>compliant</i> | | ASTM E162 | 参照 NFPA 130 / <i>acc. NFPA 130</i> |
| 火焰蔓延 / <i>Spread of fire</i> | 非火焰蔓延 <i>non flame propagating</i> | | IEC EN 61386 | |
| 垂直燃烧测试 / <i>Vertical burning behavior</i> | Vi<100 自熄 <i>Vi<100 self-extinguishing</i> | mm/min | EN ISO 6941:2003 | ECE R-118-02 附录 8 <i>ECE R-118-02 annex 8</i> |

| 耐候性 / <i>Weathering performances</i> | | | | |
|---|-----------------------------|--|--------|----------------------------------|
| UV- 及耐候性能 <i>UV and weathering performance</i> | 好 <i>average to good</i> | | IS FIP | 5 到 10 年 <i>5 to 10 years</i> |

测试条件参照EN ISO 139 , 温度 23°C / 湿度50% r. F. (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 differently). IS FIP = Internal Specification FIP

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