


FPAN

波纹管

Corrugated conduit

+120°C
-45°C



+248°F
-49°F

Material: PA6 MOD



- 标准波纹管, 用于工业机器设备
- 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
- 耐候性能好

- corrugated conduit for industrial machine building
- self-extinguishing, free of halogen and cadmium
- excellent impact resistance, compression strength
- good flexibility quality
- very good chemical resistance
- good weathering performances

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.	



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	stat. R.	m
FPANF-07B.50	FPANF-07G.50	7	10	FIPLOCK® ONE	F	6,2	10,0	15	50
FPANF-10B.50	FPANF-10G.50	10	12		F	9,6	12,8	20	50
FPANF-12B.50	FPANF-12G.50	12	16		F	12,0	15,7	30	50
FPANF-17B.50	FPANF-17G.50	17	20		F	16,6	21,1	35	50
FPANF-23B.50	FPANF-23G.50	23	25		F	22,6	28,4	40	50
FPANF-29B.50	FPANF-29G.50	29	32		F	29,0	34,5	50	50
FPANF-36B.25	FPANF-36G.25	36	40		F	36,5	42,4	55	25
FPANF-48B.25	FPANF-48G.25	48	50		F	47,5	54,4	65	25
FPANC-17B.50	FPANC-17G.50	17	20	FIPLOCK® ONE	C	16,1	21,1	35	50
FPANC-23B.50	FPANC-23G.50	23	25		C	22,4	28,5	40	50
FPANC-29B.50	FPANC-29G.50	29	32		C	28,3	34,7	50	50
FPANC-36B.25	FPANC-36G.25	36	40		C	35,8	42,4	55	25
FPANC-48B.25	FPANC-48G.25	48	50		C	46,7	54,5	65	25

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FPANF NW 07-48 及 FPANC NW 17-48 连接 FIPLOCK® ONE 管接头。

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



FPAN 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>	-45 到 / <i>to</i> +120 -49 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>	2/100 m	KG	IEC EN 61386	-45°C / -49°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 FPANF & FPANC NW17
拔脱强度 / <i>Pull out strength</i>	250	N	IEC EN 61386	23°C / 73,4°F FIPLOCK ONE NW 17

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>	>27	%	EN ISO 4589-2	
灼热丝测试 / <i>Glow wire test</i>	900	°C	IEC-60695-2-12	0,9 mm
火焰蔓延 / <i>Spread of fire</i>	非火焰蔓延 <i>non flame propagating</i>		IEC EN 61386	

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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