

FPDS

波纹管

Corrugated conduit

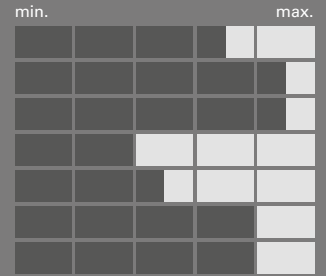
+120°C +248°F
-50°C -58°F

Material: PA12 MOD BS



- 自熄, 不含卤素和镉
 - 优异动态抗疲劳性能
 - 在寒冷及干燥环境下的机械冲击性能优异
 - 优异的耐UV/耐候性能及耐化学品性能
 - 适用于需要持续动态运动的场合
- self-extinguishing, free of halogen and cadmium
 - excellent fatigue strength
 - magnificent mechanical strength regarding physical impacts also in cold and dry environments
 - excellent UV/weather and chemical resistance
 - suitable for continuous dynamic flexing movements

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



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.	dyn. R.	m
FPDSF-07B.50	FPDSF-07G.50	07	10	FIPOLOCK® ONE	F	6,2	10,0	15	40	50
FPDSF-10B.50	FPDSF-10G.50	10	12		F	9,6	12,8	20	45	50
FPDSF-12B.50	FPDSF-12G.50	12	16		F	12,0	15,7	25	55	50
FPDSF-17B.50	FPDSF-17G.50	17	20		F	16,6	21,1	30	65	50
FPDSF-23B.50	FPDSF-23G.50	23	25		F	22,6	27,9	35	80	50
FPDSF-29B.50	FPDSF-29G.50	29	32		F	29,0	33,8	45	100	50
FPDSF-36B.25	FPDSF-36G.25	36	40		F	36,5	42,2	60	155	25
FPDSF-48B.25	FPDSF-48G.25	48	50		F	47,5	54,0	70	170	25
FPDSC-17B.50	FPDSC-17G.50	17	20		C	16,1	21,1	30	75	50
FPDSC-23B.50	FPDSC-23G.50	23	25		C	22,4	28,3	40	90	50
FPDSC-29B.50	FPDSC-29G.50	29	32		C	28,3	34,4	50	110	50
FPDSC-36B.25	FPDSC-36G.25	36	40		C	35,8	42,2	55	170	25
FPDSC-48B.25	FPDSC-48G.25	48	50		C	46,7	54,0	65	190	25
FPDSC-56B.25	FPDSC-56G.25	56	68		C	56,3	67,2	100	250	25
FPDSC-70B.25	FPDSC-70G.25	70	80	C	67,2	79,6	135	320	25	
FPDSC-95B.10	FPDSC-95G.10	95	106	C	91,3	106,0	150	420	10	
FPDSC-125B.10	FPDSC-125G.10	125	146	C	126,5	146,5	320	460	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 / eCATALOG solutions electronic CAD catalog: <https://fraenkische-ip.partcommunity.com>

¹⁾ FIPOLOCK® 波纹管编码规则 / Part numbering key for FIPOLOCK® 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 FPDSF NW 07-48 及 FPDSC NW 17-48 连接 FIPOLOCK® ONE 管接头。

Recognised Component certification is valid for FPDSF NW 07-48 and FPDSC NW 17-48 in connection with FIPOLOCK® ONE fittings.



应用性能 Application performances	特性 Characteristics	单位 Unit	规范标准 Standards, specifications	备注 Remark
温度范围 / Temperature range	-45 到 / to +120 -49 到 / to +248	°C °F	IS FIP	弯曲性能 / flexible
温度范围 / Temperature range	-50 到 / to +120 -58 到 / to +248	°C °F	IEC EN 61386	
温度 (短周期) / Temperature (short-term)	150 (500 h); 165 (100 h) 302 (500 h); 329 (100 h)	°C °F	IS FIP	
填充率 (最大) / Filling ratio (max.)	70	%	IS FIP	推荐值 / Recommendation

机械性能 / Mechanical performances				
冲击强度 / Impact strength	1/100 mm	J	IEC EN 61386	-45°C / -49°F
冲击强度 / Impact strength	1J/2J/4J	Joule	FIP-ISTR-1601	-50°C / -58°F
峰值负载 / Peak load value	125	N	IEC EN 61386	
弯曲测试 / Flexing test	5000	N	IEC EN 61386	-45°C / -49°F +120°C / +248°F FPDSF & FPDS NW17
石屑冲击测试 / Stone impact test	尺寸 4 – 5 mm / Size 4 – 5 mm		DIN EN ISO 20567-1:2017-07	FPDSC-17B
拔脱强度 / Pull out strength	250	N	IEC EN 61386	23°C / 73,4°F – FIPLOCK ONE NW 17

应用性能 / Application performances				
防锈测试 / Corrosion test	符合 / compliant		DIN EN ISO 9227:2017-07	FPDSC-17B

防火性能 / Fire safety performances				
不含卤素和镉 / Free from halogens and cadmium	是 / yes		DIN EN ISO 63355:2023-08	
阻燃等级 / Fire classification	V2		UL 94	
防火特性 / Fire characteristic	自熄 / self-extinguishing		UL 1696	
氧指数 / Oxygen index	32	%	EN ISO 4589-2	
灼热丝测试 / Glow wire test	850	°C	IEC-60695-2-12	0,9 mm
火灾危害等级 / Fire hazardous level	HL2 R22 / HL3 R23		EN45545-2	
火焰蔓延 / Spread of fire	非火焰蔓延 non flame propagating		IEC EN 61386	
垂直燃烧测试 / Vertical burning behavior	100 自熄 100 self-extinguishing	mm/min	EN ISO 6941:2003	ECE R-118-02 附录 8 ECE R-118-02 annex 8

耐候性 / Weathering performances				
UV- 及耐候性能 UV and weathering performance	优异 excellent		IS FIP	可达 30 年 up to 30 years
耐候测试 / Weathering test	符合 / resistant		DIN EN ISO 4892-2: 2013-07	5000h
防锈测试 Corrosion test	符合 / compliant		DIN EN ISO 9227:2017-07 DIN EN ISO 13018:2016-06	FPDSC-17B

测试条件参照EN ISO 139 , 温度 23°C / 湿度50% r. h. (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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