

HPDS

波纹管

Corrugated conduit

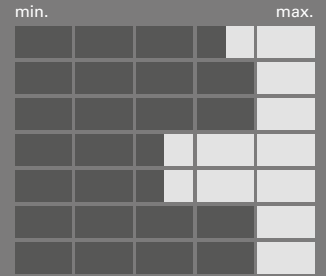
+120°C +248°F
-50°C -58°F

Material: PA12 MOD BS



- 不含卤素和镉
- 厚壁型
- 抗低温机械冲击性能优异
- 优异的动态抗疲劳性能
- 防火性能优异
- 适用于各种高技术要求的场合
- free of halogen and cadmium
- with increased wall thickness
- high mechanical strength also at low temperatures
- high dynamic fatigue strength
- good fire precaution performance
- suitable for technically most demanding applications

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 m
	NW	metr.			内径 / ID	外径 / OD	stat. R.	dyn. R.	
黑色 / black									
HPDSF-07B.50	07	10	FIPLOCK® ONE	F	6,2	10,0	15	40	50
HPDSF-10B.50	10	12		F	9,6	12,8	20	50	50
HPDSF-12B.50	12	16		F	12,0	15,7	25	60	50
HPDSC-17B.50	17	20		C	15,8	21,1	35	80	50
HPDSC-23B.50	23	25		C	22,0	28,3	40	100	50
HPDSC-29B.50	29	32		C	27,8	34,4	50	120	50
HPDSC-36B.25	36	40		C	35,8	42,2	60	180	25
HPDSC-48B.25	48	50		C	46,7	54,0	70	210	25
HPDSC-56B.25	56	68	FIPLOCK® XL	C	56,3	67,2	120	260	25
HPDSC-70B.25	70	80		C	67,2	79,6	150	340	25
HPDSC-95B.10	95	106		C	91,9	106,0	230	450	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HPDSF NW 07–48 及 HPDSC NW 17–48 连接 FIPLOCK® ONE 管接头。

Recognised Component certification is valid for HPDSF NW 07–48 and HPDSC NW 17–48 in connection with FIPLOCK® ONE fittings.



HPDS 产品性能 / Product performances

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	IEC EN 61386	弯曲性能 / flexible
温度范围 / Temperature range	-50 到 / to +120 -58 到 / to +248	°C °F	IS FIP	
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	KG	IEC EN 61386	-45°C / -49°F – HPDSC-17B
冲击强度 / Impact strength	1J/2J/4J	Joule	FIP-ISTR-1601	-50°C bis / -58°F
峰值负载 / Peak load value	320	N	IEC EN 61386	23°C / 73,4°F – HPDSC-17B
弯曲测试 / Flexing test	5000	N	IEC EN 61386	-45°C / -49°F +120°C / +248°F HPDSC NW17
拔脱强度 / Pull out strength	500	N	IEC EN 61386	23°C / 73,4°F – FIPLOCK ONE NW 17

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	VI<100 自熄 VI<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 40 年 up to 40 years
耐候测试 / Weathering test	符合 / resistant		DIN EN ISO 4892-2: 2013-07	5000h

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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