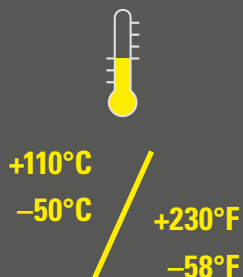
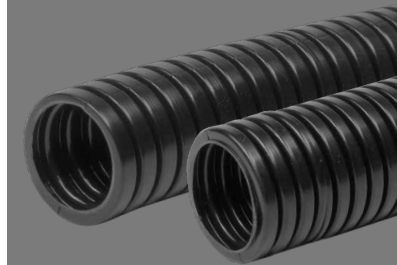


FPDS

具有优异的抗疲劳及耐候性的标准波纹管

Corrugated conduit with excellent fatigue strength and weathering resistance



材料: PA12 MOD BS

FPDS波纹管由特殊改性尼龙12制成, 具有非常好的自熄及动态抗疲劳性能。特别适用于轨道机车, 自动化及机器人应用。这些波纹管同时能够提供在低温及干燥环境下非常好的抗物理冲击机械强度。产品具有优异的耐紫外线耐候性及耐化学性能。

Material: PA12 MOD BS

The FPDS corrugated conduit made of specially modified Polyamide 12, provides self-extinguishing fire characteristics and very high fatigue strength against continuous dynamic flexing movements. Especially suitable for rolling stock applications, automation and robotic applications, these corrugated conduit also offers good mechanical strength regarding physical impacts also in cold and dry environments. Excellent UV / weather and chemical resistance accomplishes this product.

FPDS

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	-50 到 / to +110 -58 到 / to +230	°C °F	IS FIP	
温度 (短周期) Temperatur (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	
机械性能 / Mechanical performances				
冲击强度 Impact strength	6	J	IS FIP	23°C / 73,4°F
冲击强度 Impact strength	2	J	IS FIP	-45°C / -49°F
峰值负载 Peak load value	125	N	IS FIP	
拔脱强度 Pull out strength	500	B	IS FIP	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			
阻燃等级 Fire classification	V2		UL 94	
产品防火特性 Fire characteristic of the product	自熄 self-extinguishing		UL 1696	
易燃性 Flammability	自熄 self-extinguishing		FMVSS 302	
氧指数 Oxygen index	32	%	EN ISO 4589-2	
灼热丝测试 Glow wire test	850 1562	°C °F	IEC 60695	
火灾危害等级 Fire hazardous level	HL3 R22 HL3 R23		EN45545-2	
火焰蔓延指数 Flame spread index	符合 compliant		ASTM E162	依照 / acc. NFPA 130
烟雾浓度 Smoke density	符合 compliant		ASTM E662	依照 / acc. NFPA 130
烟雾毒性 Smoke toxicity	符合 compliant		BSS 7239/SMP 800-C	
热释放量 (焓) Heat release (Enthalpy)	20,9	MJ/kg (BTU/lb)	ASTM E1354	50 kW/m² 热通量 / heat flux
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 / self-extinguishing	mm/min	EN ISO 6941:2003	ECE R-118-02 附件 8 / annex 8
耐候性 / Weathering performances				
UV及耐候性 UV and weathering performance	优异 excellent		IS FIP	可达 30 年 up to 30 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 Part No.		名义尺寸 Nominal width		波型 Profile	尺寸 (mm) Dimensions in mm (nom.)		弯曲半径 (mm) Bending radius in mm		包装单元 PU
黑色 / black	灰色 / grey	NW	metr.		ID	AD / OD	stat. R.	dyn. R.	m
FPDSF-07B.50	FPDSF-07G.50	07	10	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	22,0	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	36,6	42,2	55	170	25
FPDSC-48B.25	FPDSC-48G.25	48	50	C	47,0	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
FPDSC-170B.A	FPDSC-170G.A	170	193	C	172,0	193,0	440	620	A

关于产品库存, 交期, 尺寸及颜色等问题请联系我们本地的经销商或客服。

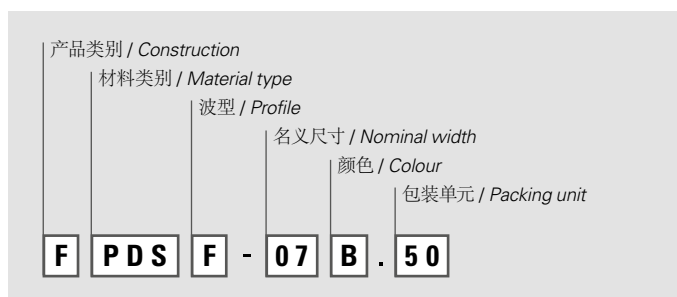
Please contact our local distribution partner or our customer service regarding product availability, lead time, other sizes and colours.

* 请参照PM sheet www.fraenkische.com/pm-sheet-inch 查询英制尺寸。

Please refer to the according PM sheet via www.fraenkische.com/pm-sheet-inch for the measurements in inch.

A = 客户定制 / customized

产品代码 / Number code:



c AL US
E178449

FPDSF NW 07-48 及 FPDSC NW 17-48 的黑色和灰色管子可与FIPLOCK® ONE 配合

FPDSF NW 07-48 and FPDSC NW 17-48 in black and grey color in connection with FIPLOCK® ONE fittings

细波型 F / Fine profile F

更小的弯曲半径 / Tight bending radius

粗波型 C / Coarse profile C

更高的拔脱强度 / High pull-out strength

弯曲半径 / Bending radius

stat. R = 静态安装最小弯曲半径
lowest recommended bending radius for static (fixed) installation

dyn. R = 动态安装最小弯曲半径
lowest recommended bending radius for dynamic (flexible) installation

我们尽我们的知识水平所提供的数据, 图像和技术规格图反映了当前的工程技术水平。这并不包含对最后应用有关的任何责任。产品用户需根据应用进行自己的评估, 以确定产品是否符合特殊的应用条件。我们对产品的责任只考虑一般规定条件下的水平。FIP保留对产品数据和数值进行技术调整的权力。例如更改材料和加工工艺, 在保证产品性能数值不下降的情况下不会另行通知。

The provided data, images and technical specification drawings reflect the current engineering level and are to the best of our knowledge. This does not include any liability regarding the final application. Users of the products have to make their own evaluation to determine the suitability for a specific application. Our liability for these products considers the stated level within our General Conditions only. FRAENKISCHE Industrial Pipes (FIP) reserves the right to adjust specified data and values as well as implementing technical adjustments of the products e. g. change of materials and processing technologies without prior notice as long as the specified values are not reduced.

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*



所有接头数据都可以从FIPLOCK® ONE宣传册上获取。宣传册可由网站
www.fipsystems.com 的下载区下载。

*You will find all information about our fittings in our FIPLOCK® ONE brochure. The
brochure can be downloaded from the download area on www.fipsystems.com*

