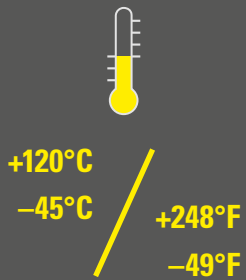
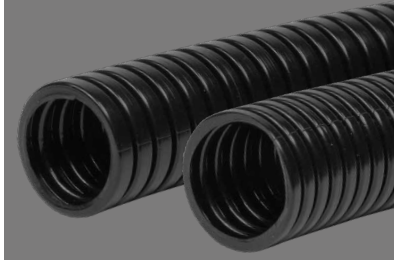


HPAF

具有优异防火性能的厚壁波纹管

Corrugated conduit with excellent fire protection characteristics in heavy version



	min.					max.				
温度范围 <i>Temperature range</i>	[Progressive bar chart]									
柔韧性 <i>Flexibility/Ductility</i>	[Progressive bar chart]									
动态性能 <i>Dynamic</i>	[Progressive bar chart]									
机械保护性能 <i>Mechanical protection</i>	[Progressive bar chart]									
防火性能 <i>Fire precaution performance</i>	[Progressive bar chart]									
耐化学性 <i>Chemical resistance</i>	[Progressive bar chart]									
耐候性 <i>Resistance to weathering</i>	[Progressive bar chart]									

材料: PA6 MOD V0

波纹管 HPAF 由高阻燃改性尼龙制成。适用于对防火要求比较高的场合。此产品具有优异的自熄性能及低烟性能，优异的机械保护性能，非常适合铁路及公共运输设备等领域高技术要求的场合。

Material: PA6 MOD V0

The heavy duty HPAF conduit is made from highly flame retarded specially modified Polyamide 6. It is suitable for cable protection applications where low fire hazard is mandatory. The excellent self-extinguishing and low smoke generation characteristics are main criterions for the selection of these products. With its very good complementary mechanical performances this conduit suits technically high demanding applications, for example in rolling stock applications.

HPAF

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	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 / 12...15	J	IS FIP	23°C / 73,4°F
冲击强度 Impact strength	2	J	IS FIP	-15°C / 5°F
峰值负载 Peak load value	320	N	IS FIP	
拔脱强度 Pull out strength	500 / 700	N	IS FIP	23°C / 73,4°F FIPLOCK ONE NW 17
防火性能 / Fire safety performances				
不含卤素及镉 Free from halogens and cadmium	是 / yes			
阻燃等级 Fire classification	V0		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	>35	%	EN ISO 4589-2	
灼热丝测试 Glow wire test	960 1760	°C °F	IEC 60695	
火灾危害等级 Fire hazardous level	HL2 R22 黑色 / black HL3 R23 灰色 / grey		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 / 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	好 good		IS FIP	可达 15 年 up to 15 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

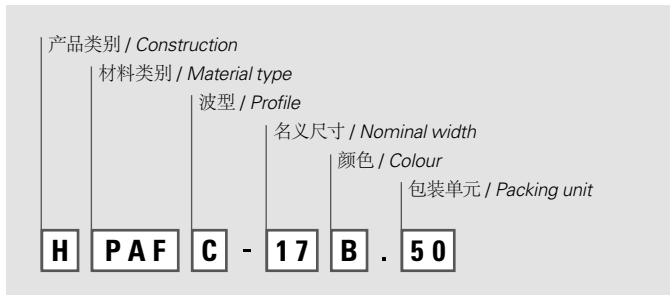
产品号 Part No.		名义尺寸 Nominal width		波型 Profile	尺寸 (mm) Dimensions in mm (nom.)		弯曲半径 (mm) Bending radius in mm	包装单元 PU
黑色 / black	灰色 / grey	NW	metr.		ID	外径 / OD	stat. R.	m
HPAFC-17B.50	HPAFC-17G.50	17	20	C	16,1	21,1	35	50
HPAFC-23B.50	HPAFC-23G.50	23	25	C	22,0	28,5	45	50
HPAFC-29B.50	HPAFC-29G.50	29	32	C	28,3	34,7	55	50
HPAFC-36B.25	HPAFC-36G.25	36	40	C	35,8	42,3	60	25
HPAFC-48B.25	HPAFC-48G.25	48	50	C	46,7	54,2	70	25

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.

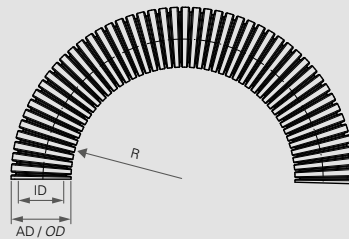
* 请参考PM sheet www.fraenkische.com/pm-sheet-inch 查询英制尺寸/ Please refer to the according PM sheet via www.fraenkische.com/pm-sheet-inch for the measurements in inch.

产品代码 / Number code:



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

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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*



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