

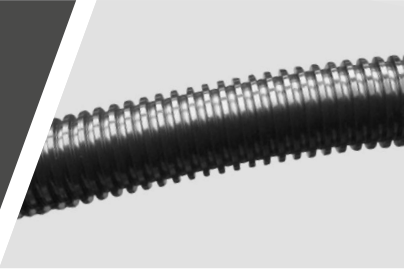
## FPASS

### 柔性波纹管

### Corrugated conduit

+120°C +248°F  
-45°C -49°F

Material: PA6 MOD BS



- 自熄, 不含卤素和镉
  - 优异的抗压强度
  - 防火性能好
  - 弯曲性能好
  - 耐候性能好
  - 波纹管内部波型平坦, 适合有较大震动的场合
  - 避免刮伤敏感线缆
- self-extinguishing, free of halogen and cadmium
  - excellent compression strength
  - good fire safety performances
  - good pliability characteristics
  - good weathering performances
  - reduced corrugated conduit geometry in inner surface, suitable for applications with heavy vibration
  - avoids chafing of sensitive cables and wires

- 温度范围 / Temperature range
- 弯曲性能 / 柔韧性 / 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. <sup>1)</sup>	名义尺寸 Nominal width		波型 Profile <sup>2)</sup>	尺寸 Dimensions in mm (nom.) <sup>3)</sup>		弯曲半径 Bending radius in mm	包装单元 PU
	NW	metr.		内径 / ID	外径 / OD		
黑色 / black						stat. R.	m
FPASS-10B.50	10	12	S	9,8	12,8	25	50
FPASS-12B.50	12	16	S	12,3	15,7	35	50
FPASS-17B.50	17	20	S	16,6	21,1	40	50
FPASS-23B.50	23	25	S	23,1	28,4	45	50
FPASS-29B.50	29	32	S	28,9	34,5	60	50

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>

<sup>1)</sup> FIPSPECIALS® 波纹管编码规则 / Part numbering key for FIPSPECIALS® corrugated conduits: [www.fraenkische.com/fipspecials-part-no](http://www.fraenkische.com/fipspecials-part-no)

<sup>2)</sup> 波纹管波型 / Conduit profiles: [www.fraenkische.com/fipsystems-profiles](http://www.fraenkische.com/fipsystems-profiles)

<sup>3)</sup> 英制尺寸转换: [www.fraenkische.com/fipsystems-umrechnung-inch](http://www.fraenkische.com/fipsystems-umrechnung-inch) / Conversion to inch: [www.fraenkische.com/fipsystems-conversion-inch](http://www.fraenkische.com/fipsystems-conversion-inch)



# FPASS 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	
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	

机械性能 / Mechanical performances				
峰值负载 / Peak load value	320	N	IS FIP	

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 (V0)		UL 94	
氧指数 / Oxygen index	>32	%	EN ISO 4589-2	
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	参照 NFPA 130 / 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)	31.44 (13540)	MJ/kg (BTU/lb)	ASTM E1354	50 kW/m <sup>2</sup> 热通量 50 kW/m <sup>2</sup> heat flux
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	好 average to good		IS FIP	5 到 10 年 5 to 10 years

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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