

FPDS-A

波纹管

Corrugated conduit

+110°C +230°F
-50°C -58°F

Material: PA12 MOD BS 蓝色/blue
色号 RAL5015 / similar to RAL5015



- 用于特殊线缆线束的标记
- 自熄, 不含卤素和镉
- 优异的动态抗疲劳性能
- 适用于需要持续动态运动的场合
- 优异的耐UV/耐候性能及耐化学品性能

- for marking special wiring
- self-extinguishing, free of halogen and cadmium
- excellent fatigue strength
- very high fatigue strength against continuous dynamic flexing movements
- good weathering performances and UV-resistance

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

min.		max.	
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■
■	■	■	■



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.	
蓝色 RAL5015 / blue similar to RAL5015									
FPDSF-07A3.50	7	10	FIPLOCK® ONE	F	6,2	10,0	15	40	50
FPDSF-10A3.50	10	12		F	9,6	12,8	20	45	50
FPDSF-12A3.50	12	16		F	12,0	15,7	25	55	50
FPDSF-17A3.50	17	20		F	16,6	21,1	30	65	50
FPDSF-23A3.50	23	25		F	22,6	27,9	35	80	50
FPDSF-29A3.50	29	32		F	29,0	33,8	45	100	50
FPDSF-36A3.25	36	40		F	36,5	42,2	60	155	25
FPDSF-48A3.25	48	50		F	47,5	54,0	70	170	25
FPDSC-17A3.50	17	20		C	16,1	21,1	30	75	50
FPDSC-23A3.50	23	25		C	22,0	28,3	40	90	50
FPDSC-29A3.50	29	32		C	28,3	34,4	50	110	50
FPDSC-36A3.25	36	40		C	36,6	42,2	55	170	25
FPDSC-48A3.25	48	50		C	47,0	54,0	65	190	25
FPDSC-56A3.25	56	68		C	56,3	67,2	100	250	25
FPDSC-70A3.25	70	80	C	67,2	79,6	135	320	25	
FPDSC-95A3.10	95	106	C	91,3	106,0	150	420	10	
FPDSC-125A3.10	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⁾ 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FPDSF NW 07–48 及 FPDSF NW 17–48 连接 FIPLOCK® ONE 管接头。

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



FPDS-A 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) / 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	6	J	IS FIP	23°C / 73,4°F
冲击强度 / Impact strength	1	J	IS FIP	-45°C / - 49°F
冲击强度 / Impact strength	1J/2J	Joule	FIP-ISTR-1601	-50°C / - 58°F
峰值负载 / Peak load value	125	N	依照 IEC EN 61386 according to IEC EN 61386	
拔脱强度 / Pull out strength	250	N	依照 IEC EN 61386 according to 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	
氧指数 / Oxygen index	32	%	EN ISO 4589-2	
火灾危害等级 / Fire hazardous level	HL2 R22 / HL3 R23		EN45545-2	

耐候性 / Weathering performances				
UV- 及耐候性能 UV and weathering performance	优异 excellent		IS FIP	可达 20 年 up to 20 years

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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