

主目录
工业线缆保护
*Main catalogue
Industrial cable protection*



We simplify your world

目录

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QR-Codes

为了快速、及时、方便地为您提供所有必要的信息，您可以在每个产品页面上找到相应的二维码，您可以使用二维码下载相关的数据表以便获得更详细的技术内容。您可以使用智能手机或平板电脑用免费的APP上带的二维码扫描功能来读取二维码。您需要做的就是启动APP程序，然后将移动设备的摄像头对准二维码。识别到二维码后，您可以浏览、下载及保存产品数据表的PDF格式。在一些智能手机中，尤其是新的手机型号，二维码扫描功能已经集成在摄像头功能上，而不需要额外的应用软件来实现。在网站www.fipsystems.com/en上，您可以在线下载我们的产品目录，网站上的产品数据表您只需鼠标点击一下即可下载获得。

In order to provide you with all the necessary information quickly, up-to-date and easily you will find QR codes on every product page, which you can use to download the associated data sheet with further technical content.

The QR codes (abbreviation for Quick Responses) can be read with a smartphone or tablet and a complimentary app. All you have to do is to start the app and point the camera of the mobile device to the QR code. Once the code has been detected, you can view, download and save the datasheet as a PDF. In some smartphones, especially the ones of the newer generation, such a QR code scanner is already installed in the camera automatically. A separate app is not necessary. At www.fipsystems.com/en you can download the online version of our catalogue, which provides you with the appropriate data sheet with just one „click“.

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FIPSYSTEMS® 全球生产地址

FIPSYSTEMS® production sites worldwide



美洲 / America

- 安德森, 美国
Anderson, USA



+1 864 328-0021
fipsystems@fraenkische-usa.com

欧洲 / Europe

- 柯尼斯堡, 德国
Königsberg, Germany
- 奥克日什基, 捷克
Okříšky, Czech Republic



+49 9525 88-0
sales@fraenkische-ip.com

中国 / China

- 安亭/上海, 中国
Anting/Shanghai, China
- 常熟, 中国
Changshu, China



+86 21 6957 3800
sales@fraenkische-cn.com

您可以由下面网址查询到我们详细的合作伙伴联系方式

You can find detailed contact data of our partners at

www.fipsystems.com

FRÄNKISCHE Industrial Pipes: A world full of solutions

法兰科希工业管件系统有限公司是FRÄNKISCHE Rohrwerke旗下的全资子公司，是塑料波纹管生产工艺的发明者，全世界第一家批量生产塑料波纹管的制造商。在全球，法兰科希拥有超过280,000平米的生产基地，开发生产用于工业及汽车行业的产品，满足客户各种各样的需求。我们国际化的专家团队以其丰富的技能一起努力达成我们共同的目标：使我们的客户更轻松。

为紧密的贴近客户，我们的专家团队保持了全球范围内的紧密联系。我们的专家团队致力于保持与客户的紧密沟通，并了解客户的需求。以便于结合我们与客户的经验，开发全新的产品和创新性的解决方案。

FRÄNKISCHE Industrial Pipes is a wholly-owned subsidiary of FRÄNKISCHE Rohrwerke, the world's first manufacturer of corrugated conduits. We develop products for the industrial and automotive sector in production facilities of more than 280,000 square meters worldwide with close focus on our customers' desires. Our international team of experts with their versatile skills strives to achieve the common goal: Making our customers' lives easier.

The broad competences of our experts are globally linked in order to stay close to the customer. With our broadly based teams of professionals we always try to see through the eyes of our customers and to perceive their needs. This is how we combine our and our customers' experiences in order to develop brand-new products and innovative solutions.

FIPSYSTEMS® – We simplify your world

FIPSYSTEMS® 是法兰科希管件系统有限公司一个新开发的创新型的产品系列，大大简化了世界工业线缆保护领域的应用。遵循“我们使您的世界更简单”的座右铭，法兰科希工业管件系统有限公司及其FIPSYSTEMS®产品系列为工业线缆保护领域的各种挑战提供了一系列解决方案。

我们的全球合作商网络为FIPSYSTEMS® 的销售和分销提供了强力支持。为确保客户和我们作为供应商之间的快速和轻松的沟通，我们在几乎每个国家都有工业领域相关的合作伙伴。我们在欧洲，美国和中国的分公司直接为区域合作伙伴提供相应的产品，这样使我们能够非常方便的为全世界的客户提供服务。

FIPSYSTEMS® a new developed innovative product range from FRÄNKISCHE Industrial Pipes, significantly simplifies the world of industrial cable protection. True to the motto "We simplify your world", FRÄNKISCHE Industrial Pipes and its FIPSYSTEMS® product line provide solutions to various challenges in the versatile field of industrial cable protection.

The sales and distribution of FIPSYSTEMS® is strongly supported by a global partner network. We work with qualified companies in virtually every country with industrial relevance to ensure fast and easy communication between you as a customer and us as a supplier. Our own locations in Europe, the United States and China supply the regional partners directly with the corresponding products which allows us to be more flexible regarding the delivery services all around the world.

FIPSYSTEMS[®] 产品系列

FIPSYSTEMS[®] product lines

FIPLOCK[®]

标准波纹管及其附件

*Standard corrugated conduits
and accessories*

FIPLOCK[®] ONE

标准波纹管接头 NW 07 – 48

Fittings NW 07 – 48

FIPLOCK[®] XL

大管径接头 NW 56 – 125

Fittings NW 56 – 125

FIPSHIELD[®]

EMC-电磁屏蔽方案

EMC shielding solutions

FIPSPLIT[®]

开口波纹管, 及其接头和附件

*Divisible corrugated conduits,
fittings and accessories*

FIPHEAT[®]

高温波纹管

High temperature corrugated conduits

FIPJACK[®]

编织保护套管

Textile protection sleeves

FIPMOTION[®]

高动态性能波纹管

Highly flexible corrugated conduits

FIPMETAL[®]

金属管及其附件

Metal conduits and accessories

FIPSPECIALS[®]

特殊解决方案

Special solutions

新一代线缆保护方案

The next generation in cable protection

用于所有工业应用领域的综合线缆保护产品

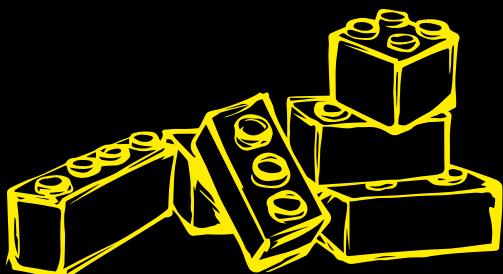
The comprehensive cable protection program for all industrial applications

FIPSYSTEMS®, 是弗兰科希管件系统有限公司在座右铭“使您的世界更简单”的指引下开发的全新的, 创新型的产品系列。其应用将大大简化世界工业线缆保护领域。**FIPSYSTEMS®**产品系列为工业线缆保护领域的各种挑战提供了解决方案。您可以组合挑选产品以满足您的需求。

- 可靠的, 创新型的线缆保护产品, 具有最高的防护等级
- 大量的产品组合-更多的选择性
- 用途广泛
- 多种应用场合的特殊解决方案
- 拥有多种测试认证证书, 可安全的用于各种应用领域
- 从一站式商店中获取所有线缆保护产品
- 快速简便的组装使用
- 更小的最低采购量

With **FIPSYSTEMS®**, FRÄNKISCHE Industrial Pipes has developed a new, innovative product range under the motto „**We simplify your world**“, whose application will significantly simplify the world of industrial cable protection. The **FIPSYSTEMS®** product range provides solutions to various challenges in the field of industrial cable protection, which you can assemble to suit your needs.

- reliable, innovative cable protection solutions with the highest protection level
- large product portfolio – large selection
- versatile use
- exceptional solutions for many applications
- safe for many applications thanks to a wide range of certificates and tests
- complete cable protection systems from one-stop shop
- fast and uncomplicated assembly and handling
- small order quantities possible



用于所有应用的可靠的线缆保护产品: www.fipsystems.com

FIPSYSTEMS® 应用领域

FIPSYSTEMS® areas of application

弗兰科希管件系统有限公司 (FIP) 提供全面的产品解决方案，用于对电线电缆进行高效和有效的保护。只需要用您的智能手机扫描相应的二维码，您将直接找到您需要的应用领域的产品。您还可以从以下网址找到您需要的应用的资料
www.fipsystems.com



工业



FIPSYSTEMS® 电缆保护解决方案产品系列与工业领域一样多样化。波纹管几何形状、材料、连接方案，以及用于改造用途的可开式双层管的设计满足了更广泛的应用需求。



可再生能源



无论是陆上还是海上 – **FIPSYSTEMS®** 线缆保护产品可适用于所有天气环境。高品质产品经得起极端气候及环境的挑战，尤其是紫外线以及啮齿类动物咬伤或机械应力等。此外，对于运行中的工厂，我们也提供合适的产品，以便使用我们的**FIPSPLIT®**产品轻松改造现有系统。



铁路/运输



我们的产品也适用于具有普遍高技术要求的铁路技术领域。优异的防火特性，高机械强度，抗紫外线及可打开都是我产品的优秀特征。

Industry



The **FIPSYSTEMS®** product range of cable protection solutions is as diverse as the industrial sector. Different variants of conduit geometries, materials, connection possibilities, as well as two-part designs for retrofit requirements allow the use for a wide range of application requirements.

Renewable Energies



No matter whether ashore or offshore – **FIPSYSTEMS®** cable protection products resist every weather. The high-quality products withstand extreme weather – especially UV rays as well as rodent bites or mechanical stress. Also for existing plants we offer the right item for easy retrofitting for existing systems with our **FIPSPLIT®** products.

Railroad/Transport



The high requirements prevailing in railroad technology also apply to our products. Superior fire protection characteristics, high mechanical strength, UV-resistance and retrofittable resealable installations are only some attributes of our cable protection solutions.

FRÄNKISCHE Industrial Pipes (FIP) offers comprehensive product solutions for efficient and effective protection of cables and wires. Simply scan the respective QR Code with your smartphone and you will be taken directly to the appropriate products for your area of application. You can also find all information about the applications at www.fipsystems.com/en



轨旁



对于敏感电缆电线的保护，我们提供符合铁路技术要求的高品质电缆保护产品。这些产品主要用于铁路屏障连接、轨旁应用或信号及控制系统。借助我们的 FIPSPLIT® 系列可开式产品，可以轻松的进行长距离或后续返修连接安装。



机器人



机器人和自动化产品的运动范围和速度确实令人印象深刻。然而，电缆和电线也必须同时承受极端运动。对我们波纹管都不是问题，我们的产品经过特殊改性及优化，具有优异的抗动态疲劳性能和抗磨损性能。借助相应附件，优化安装角度和位置，可以大大提升产品的使用寿命。



造船



狭窄的空间对线缆线束的安装非常具有挑战性。弗兰科希 FIPSPECIALS® 产品线中的特殊几何形状波纹管可使在狭窄空间中的线缆线束安装变得更加便利。此产品系列具有很好的耐候性。

Track side



For the protection of sensitive cables and wires, we offer high-quality cable protection products that meet the requirements of railway technology. These items are used primarily in railway barrier connections, in track side applications or in signal and control systems. A subsequent assembly is easily possible with the help of our FIPSPLIT® products.

Robotics



The movement spectrum and the rapidness in robotics and automation is really impressive. However, also cables and wires must withstand extreme movements. This is not a problem with our specially modified conduits since both dynamic movements and abrasion do not affect them. With special accessories for optimal degrees of freedom of movement, the systems can be used for a very long period of use.

Ship building



Narrow spaces are often a challenge for the installation of cables and wires. Special corrugated conduit geometries from the FIPSPECIALS® product range, for instance, allow for space-saving installations with optimum exploitation. The products are resistant to rough weather and water.

FIPSYSTEMS® 应用领域

FIPSYSTEMS® areas of application



化学工业



我们的FIPHEAT® 系列提供了优异的耐化学品的产品，同时具有非常高的耐温性能。此系列产品可适用于温度范围-200°C 到+260°C 的应用要求。



通讯业



我们的电缆保护和高敏感电缆布线解决方案也适用于电信和能源等公用事业领域。使用 FIPSPLIT® 产品系列，波纹管及管接头的可开式设计使对产品进行变更或改造安装变得更加容易。



其他



对于无法明确分清应用领域的需求，我们也可以为您找到合适的解决方案-如有需要，尽管联系我们！

Chemical industry



Our FIPHEAT® product range offers particularly chemically resistant products which must also withstand high process temperatures. They can be ideally used in numerous applications in temperature ranges from -200 °C to +260 °C.

Telecommunication



Our solutions for cable protection and routing of the highly sensitive cables are aimed at companies in the telecommunications and energy utilities sectors. Even a retrofit installation of our products is no problem with the FIPSPLIT® product range.

Miscellaneous



We also find a solution for requirements that can not be clearly assigned to any of the mentioned areas of application – just contact us!

We simplify your world

应用说明

Application note



在我们的产品目录接下来的页面中包含了各种各样用于工业线束线缆保护及捆扎应用的产品及解决方案。

如果目录中的产品无法满足您的需要，或者您需要例如流体系统的产品，请联系我们的产品管理部门。我们非常高兴确认您的需求，并转发给我们内部相应的负责部门。

非常感谢/

FIPSYSTEMS® 产品管理

The following pages in our catalogue contain various products and solutions for cable/wire protection and bundling in industrial applications.

If your applications deviate from this and/or you need e.g. products for fluid systems, please contact our product management. We will gladly check your inquiry and forward it in-house accordingly.

Thanks a lot!

FIPSYSTEMS® product management

productmanagement@fraenische-ip.com

证书及认证

Certificates and approvals



我们完全满足所有**DIN EN ISO 9001, ISO/TS 16949, ISO 50001**
以及**DIN EN ISO 14001**标准要求
*We fulfill all requirements of
DIN EN ISO 9001, ISO/TS 16949,
ISO 50001 and DIN EN ISO 14001*



欧盟CE认证
Communautés Européennes
(IEC EN61386)



美国和加拿大认可部件标志
Recognized component mark for
Canada and United States



铁路防火标准 **EN 45545-2**
Standards for rolling stock
EN 45545-2



美国材料与测试协会
American Society for
Testing and Materials



美国消防协会
National Fire Protection
Association



国际铁路行业标准
International Railway
Industry Standard
ISO TS 22163



德国电气工程师协会
*Association of Electrical,
Electronic and Information
Technologies*



汽车内饰件阻燃标准**UNECE 118**
*Standard for fire behavior
of vehicle interiors according
to guideline UNECE 118*



无卤
Halogen free



危险品运输授权
*License for transport
of hazardous goods*



化学品的授权和限制
*Registration, Evaluation,
Authorization and
restriction of Chemicals*



危害性物质限制指令
*Restriction of Hazardous
Substances directive*

认证

Certifications



UL: 认可的波纹管 FIPLOCK®

UL: Approved corrugated conduits FIPLOCK®

以下 FIPLOCK® 波纹管与FIPLOCK® ONE 接头连接得到了UL 1696 认可。

Following FIPLOCK® corrugated conduits are approved according to UL 1696 in combination with FIPLOCK® ONE fittings.

FPANF 黑色 / black NW 07–48	FPANF 灰色 / grey NW 07–48	FPANC 黑色 / black NW 17–48	FPANC 灰色 / grey NW 17–48	FPASF 黑色 / black NW 07–48	FPASF 灰色 / grey NW 07–48
FPASC 黑色 / black NW 17–48	FPASC 灰色 / grey NW 17–48	FPACF 黑色 / black NW 07–48	FPACF 灰色 / grey NW 07–48	FPACC 黑色 / black NW 17–48	FPACC 灰色 / grey NW 17–48
FPDSF 黑色 / black NW 07–48	FPDSF 灰色 / grey NW 07–48	FPDSC 黑色 / black NW 17–48	FPDSC 灰色 / grey NW 17–48	HPACF 黑色 / black NW 07–12	HPACC 黑色 / black NW 17–48
HPDSF 黑色 / black NW 07–12	HPDSC 黑色 / black NW 17–48				

认证

Certifications



UL: 认可的接头FIPLOCK® ONE

UL: Approved fittings FIPLOCK® ONE

以下FIPLOCK® ONE 接头与 FIPLOCK® 波纹管的连接得到了UL 1696 的认可（黑色和灰色）：

Following FIPLOCK® ONE fittings are approved according to UL 1696 in combination with FIPLOCK® corrugated conduits (black and grey):

ASPA-M	ASPA-MMK	ASPA-MMK-S	ASPA-MML	ASPA-MML-S	ASPA-PG
ASPA-PGM	ASPA-PGM-S	ASPA-NPT	ASPA-NPTM-S	AWPA/AEPA-M	AWPA/AEPA-MMK
AWPA/AEPA-MMK-S	AWPA/AEPA-MML	AWPA/AEPA-MML-S	AWPA/AEPA-PG	AWPA/AEPA-PGM	AWPA/AEPA-PGM-S
AWPA/AEPA-NPT	AWPA/AEPA-NPTM-S	AAPA-M	AAPA-MMK	AAPA-MMK-S	AAPA-MML
AAPA-MML-S	AAPA-PG	AAPA-PGM	AAPA-PGM-S	AAPA-NPT	AAPA-NPTM-S

FIPLOCK[®] ONE



认证

Certifications

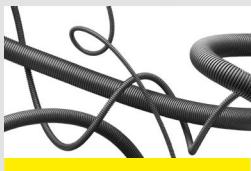


EN 45545-2: 认可的波纹管和接头

EN 45545-2: Approved corrugated conduits and fittings

以下产品按照标准EN45545-2 进行防火认证:

The following of our products are certified according to the standard EN45545-2:



FIPLOCK®

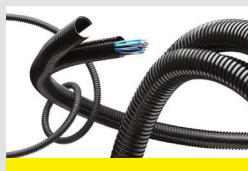
FPAS, FPAS-F, FPDS,
HPAF, HPDS
FPAS-O, FPDS-O,
FPFA-F, FPDS-A



**FIPLOCK® ONE
+ FIPLOCK® XL**

所有管接头
all fittings

有黑色和灰色可选
valid for black and grey



FIPSPLIT®

2PAS, 2PAF,
2PDS, 1PAS
2PAS-O, 2PDS-O



FIPSPECIALS®

FPASH, FPASS,
IPAT, OPAS,
OPAF, OPDS



FIPJACK®

BPET-V0*
WPET-SCF

*有黑色和灰色可选
valid for black and grey



**NFPA
130**

ASTM + NFPA 130: 认可的波纹管和接头

ASTM + NFPA 130: Approved corrugated conduits and fittings

以下产品按照标准ASTM 及 NFPA 130 进行防火认证:

The following of our products are certified according to the norm ASTM as well as NFPA 130:



FIPLOCK®

FPAS, FPDS, HPDS
有黑色和灰色可选
valid for black and grey



**FIPLOCK® ONE
+ FIPLOCK® XL**

所有管接头
all fittings

有黑色和灰色可选
valid for black and grey



FIPSPLIT®

2PAS, 2PDS,
1PAS

有黑色和灰色可选
valid for black and grey



FIPSPECIALS®

FPASH, FPASS, IPAT,
OPAS, OPDS



eCATALOGsolutions

电子 CAD 目录

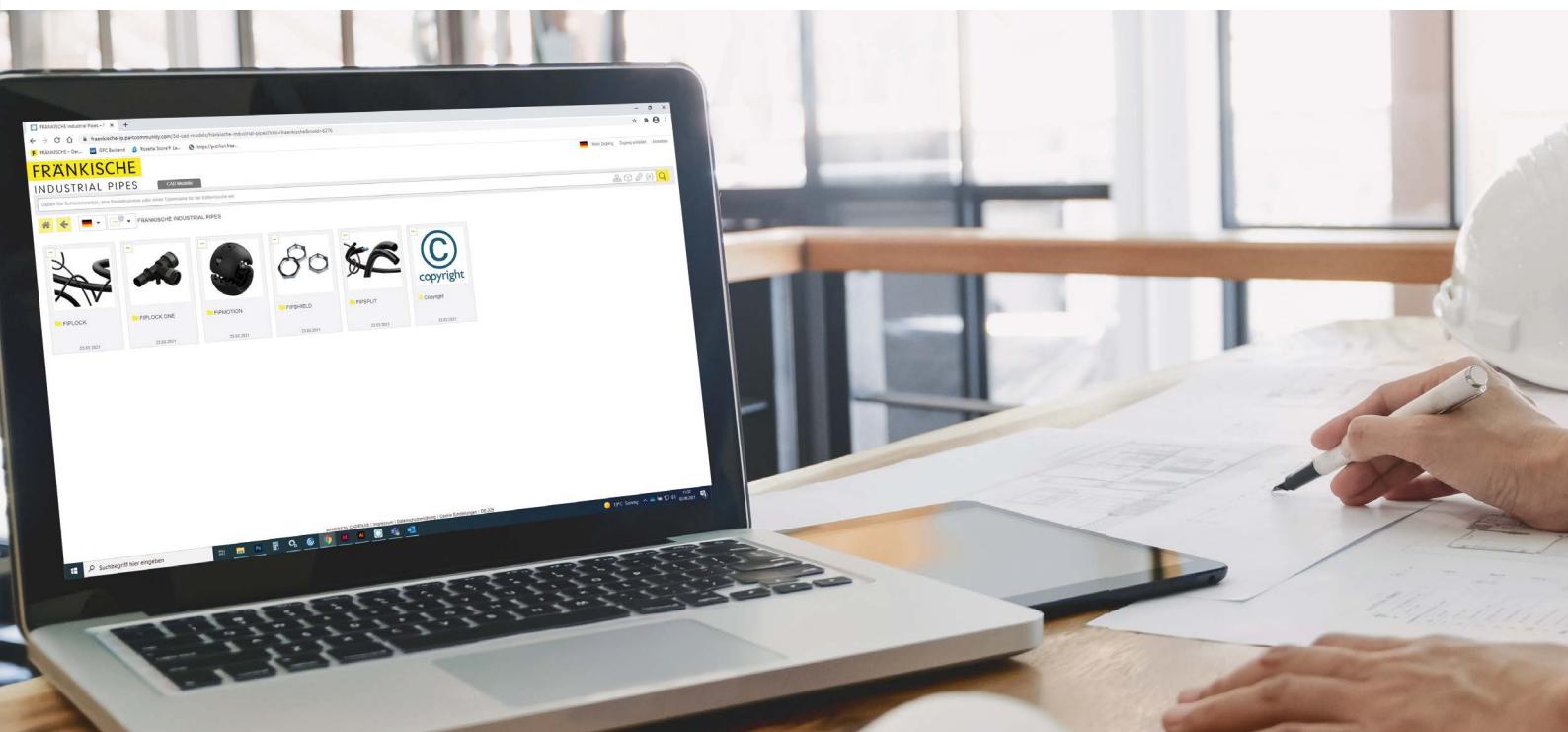
electronic CAD catalogue

我们的产品3D数模及2D图纸都可以从这里
下载获得:

*3D visualization and 2D drawings of our
products can be found here:*

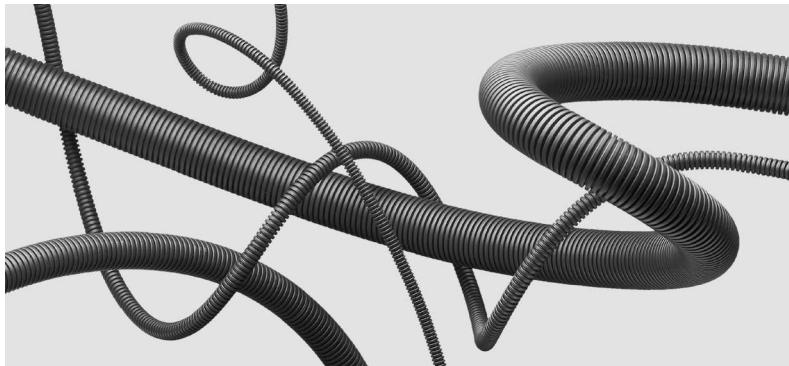


<http://fraenkische-ip.partcommunity.com>



标准波纹管

Standard corrugated conduits

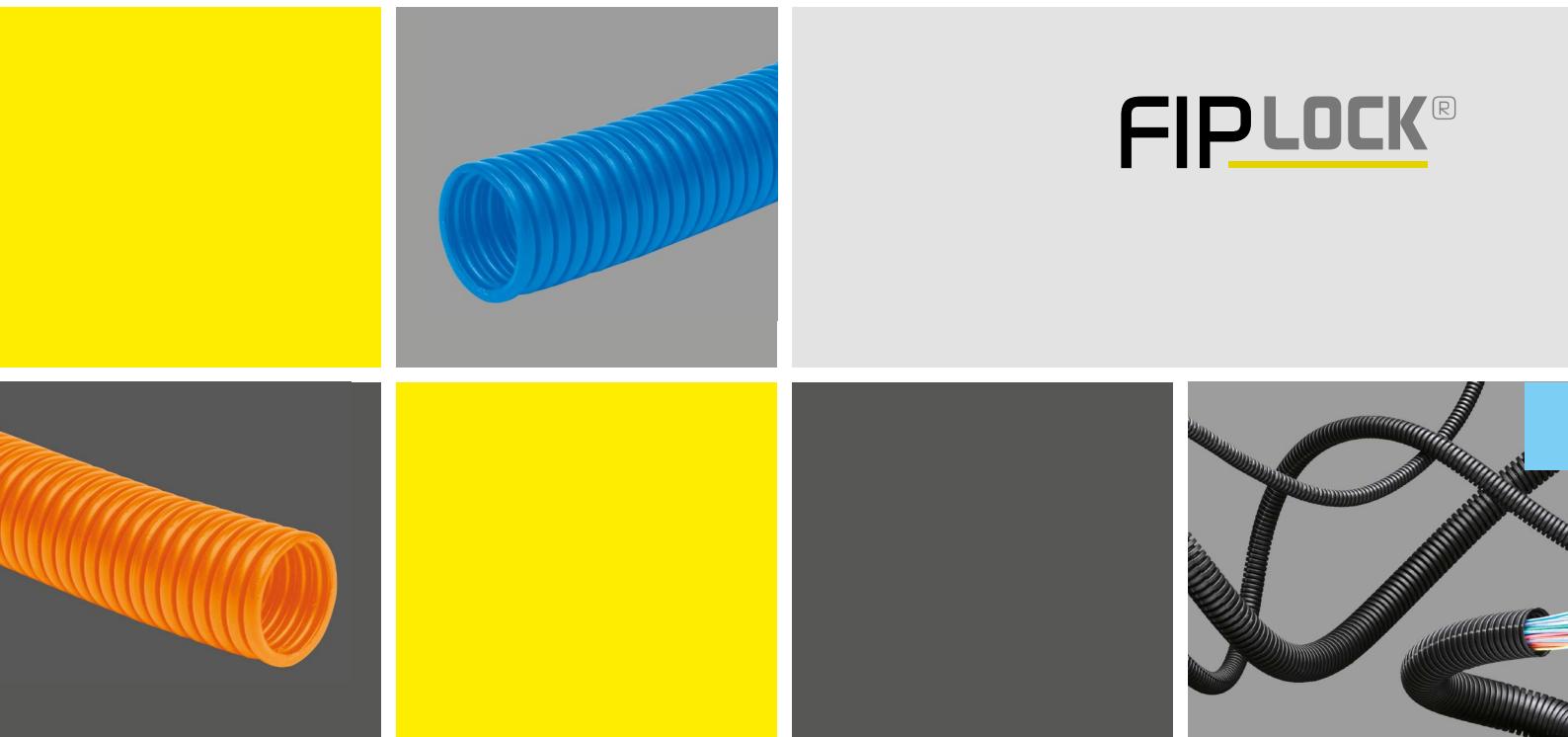


产品概述 / Product overview

产品 Product	颜色 Colour	材料 Material	波形 Profile	附件 Accessories	页码 Page
FPAS	黑色, 灰色 / black, grey	PA6 MOD BS	F, C	✓	22
FPAC	黑色, 灰色 / black, grey	PA6 MOD BS C	F, C	✓	23
HPAC	黑色 / black	PA6 MOD BS C	F, C	✓	23
FPAF	黑色, 灰色 / black, grey	PA6 MOD V0	F, C	✓	24
HPAF	黑色, 灰色 / black, grey	PA6 MOD V0	F, C	✓	24
FPAN	黑色, 灰色 / black, grey	PA6 MOD	F, C	✓	25
FPDS	黑色, 灰色 / black, grey	PA12 MOD BS	F, C	✓	26
HPDS	黑色 / black	PA12 MOD BS	F, C	✓	26
FPDA	黑色 / black	PA12 MOD ESD	F, C	✓	27
FPPS-U	黑色 / black	PP MOD BS UV	F, C	✓	28
FPPO	黑色 / black	PP MOD	F, C	✓	28

FPAS-0	橙色 / orange	PA6 MOD BS	F, C	✓	30
FPAN-0	橙色 / orange	PA6 MOD	F	✓	30
FPDS-0	橙色 / orange	PA12 MOD BS	F, C	✓	31
FPPS-0	橙色 / orange	PP MOD BS	F	✓	31

FPAF-A	蓝色 / blue	PA6 MOD V0	F, C	✓	32
FPDS-A	蓝色 / blue	PA12 MOD BS	F, C	✓	32
FPPS-U-A	蓝色 / blue	PP MOD BS UV	F, C	✓	33



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>										
FPAS	✓		✓	✓			✓	✓		✓
FPAC	✓		✓				✓			✓
HPAC	✓		✓				✓			✓
FPAF	✓			✓			✓			✓
HPAF	✓			✓			✓			✓
FPAN	✓									✓
FPDS	✓	✓	✓	✓		✓	✓	✓	✓	✓
HPDS	✓	✓	✓	✓		✓	✓	✓	✓	✓
FPDA	✓	✓	✓			✓		✓		✓
FPPS-U	✓	✓	✓		✓			✓	✓	✓
FPPO	✓		✓			✓		✓		✓
FPAS-0	✓		✓	✓			✓	✓		✓
FPAN-0	✓									✓
FPDS-0	✓		✓	✓		✓	✓	✓	✓	✓
FPPS-0	✓		✓					✓	✓	✓
FPAF-A				✓						✓
FPDS-A	✓	✓		✓		✓	✓	✓	✓	✓
FPPS-U-A										✓

FIPLOCK® 波纹管编码规则

Part numbering key FIPLOCK® corrugated conduits



1 型号 / Model

- F** = FIPLOCK® 标准壁厚波纹管
FIPLOCK® standard weight
H = FIPLOCK® 中等至厚壁型波纹管
FIPLOCK® medium to heavy weight
L = FIPLOCK® 轻型波纹管
FIPLOCK® light weight

2 材料类型 / Material type

- PAN = PA6 MOD
PAS = PA6 MOD BS
PAF = PA6 MOD V0
PAC = PA6 MOD BS C
PDA = PA12 MOD ESD
PDS = PA12 MOD BS
PDR = PA12 MOD R
PPO = PP MOD
PPS = PP MOD BS
PPS-U = PP MOD BS UV

3 波形 / Profile

- F** = 细波形 (匹配 FIPLOCK® ONE)
Fine profile (compatible with FIPLOCK® ONE)
C = 粗波形 (匹配 FIPLOCK® ONE)
Coarse profile (compatible with FIPLOCK® ONE)

4 公称尺寸 / Nominal width (NW)

- 07-48** = NW Standard
56-125 = NW XL

5 颜色 / Colour

- B** = 标准黑色
Standard black
G = 标准灰色
Standard grey
U = UV-黑色
UV black
02 = 橙色 RAL2003
Orange similar to RAL2003
A3 = 蓝色 RAL5015
Blue similar to RAL5015

6 包装单元(PU) / Packing units (PU)

- 50** = 每卷长度或件数
Coil length or length of pieces
A = 特殊包装单元
Individual packing units

波形 *Profiles*

FIPLOCK®

F 细波形 / F fine profile

应用场合:

更小的弯曲半径更低的弯曲刚度

Application areas:

for tighter bending radii and lower bending stiffness

轮廓特征:

细波形螺距包含了一个波峰和一个波谷

Characteristics profile:

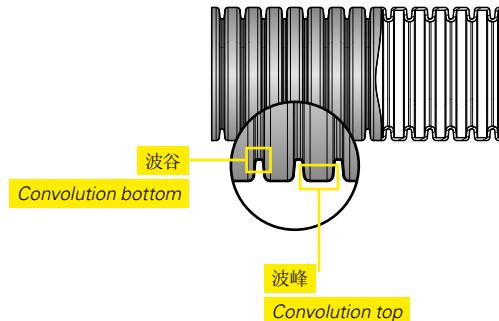
fine profile pitch over convolution top and convolution bottom

每单位长度上更多的波纹大大优化了材料的应力分布。

More convolutions per length provide an optimized distribution of bending stress to the material.



与我们 FIPLOCK® ONE 接头匹配
Compatible with our FIPLOCK® ONE fittings



C 粗波形 / C coarse profile

应用场合:

在重载状态下具有更高的抗拔脱能力

Application areas:

increased pull out forces at heavy loads

轮廓特征:

粗波形螺距包含了一个波峰和一个波谷

Characteristics profile:

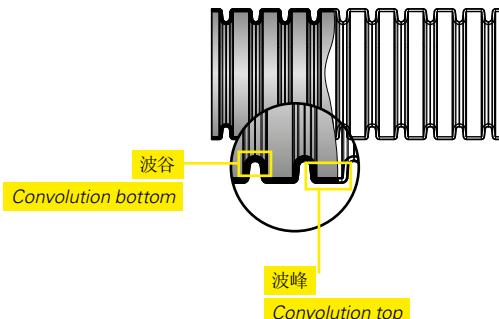
coarse profile pitch over convolution top and convolution bottom

每单位长度上更少的波纹降低了管子在拉力下的伸长率。

Less convolutions per length reduces the conduit elongation under pulling forces.



与我们 FIPLOCK® ONE 接头匹配
Compatible with our FIPLOCK® ONE fittings



FPAS

Material: PA6 MOD BS

波纹管

适用于各种线缆保护应用的圆形波纹管

Corrugated conduit

Allrounder for various cable protection applications

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW	metr.	
FPASF-07B.50	FPASF-07G.50	07	10	F
FPASF-10B.50	FPASF-10G.50	10	12	F
FPASF-12B.50	FPASF-12G.50	12	16	F
FPASF-17B.50	FPASF-17G.50	17	20	F
FPASF-23B.50	FPASF-23G.50	23	25	F
FPASF-29B.50	FPASF-29G.50	29	32	F
FPASF-36B.25	FPASF-36G.25	36	40	F
FPASF-48B.25	FPASF-48G.25	48	50	F

FPASC-17B.50	FPASC-17G.50	17	20	C
FPASC-23B.50	FPASC-23G.50	23	25	C
FPASC-29B.50	FPASC-29G.50	29	32	C
FPASC-36B.25	FPASC-36G.25	36	40	C
FPASC-48B.25	FPASC-48G.25	48	50	C
FPASC-56B.25	FPASC-56G.25	56	68	C
FPASC-70B.25	FPASC-70G.25	70	80	C
FPASC-95B.10	FPASC-95G.10	95	106	C
FPASC-125B.10	FPASC-125G.10	125	146	C

FPAC

Material: PA6 MOD BS C

波纹管

适用于低温场合的波纹管

*Corrugated conduit
suitable also at low temperatures*

+105 °C
-50 °C

+221 °F
-58 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 柔韧性好
- 耐化学性能好
- 非常优异的低温动态性能及机械性能
- self-extinguishing, free of halogen and cadmium
- good flexibility quality
- good chemical resistance
- very good dynamic and mechanical characteristics also at very low temperature



E178449



RoHS



REACH



HALOGEN FREE



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW metr.
FPACF-07B.50	FPACF-07G.50	07 10 F
FPACF-10B.50	FPACF-10G.50	10 12 F
FPACF-12B.50	FPACF-12G.50	12 16 F
FPACF-17B.50	FPACF-17G.50	17 20 F
FPACF-23B.50	FPACF-23G.50	23 25 F
FPACF-29B.50	FPACF-29G.50	29 32 F
FPACF-36B.25	FPACF-36G.25	36 40 F
FPACF-48B.25	FPACF-48G.25	48 50 F

FPACC-17B.50	FPACC-17G.50	17	20	C
FPACC-23B.50	FPACC-23G.50	23	25	C
FPACC-29B.50	FPACC-29G.50	29	32	C
FPACC-36B.25	FPACC-36G.25	36	40	C
FPACC-48B.25	FPACC-48G.25	48	50	C
FPACC-56B.25	FPACC-56G.25	56	68	C
FPACC-70B.25	FPACC-70G.25	70	80	C
FPACC-95B.10	FPACC-95G.10	95	106	C
FPACC-125B.10	FPACC-125G.10	125	146	C

HPAC

Material: PA6 MOD BS C

波纹管

适用于低温场合的厚壁型波纹管

*Corrugated conduit
suitable also at low temperatures, heavy version*

+105 °C
-50 °C

+221 °F
-58 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 厚壁型
- 用于静态应用
- 优异的抗冲击性能, 抗压强度高
- 耐化学性能好
- 非常优异的低温机械性能
- self-extinguishing, free of halogen and cadmium
- with increased wall thickness
- for static applications
- excellent impact resistance and compression strength
- good chemical resistance
- very good mechanical characteristics at very low temperature



E178449



RoHS



REACH



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	NW metr.	
HPACF-07B.50	07 10 F	
HPACF-10B.50	10 12 F	
HPACF-12B.50	12 16 F	

HPACC-17B.50	17	20	C
HPACC-23B.50	23	25	C
HPACC-29B.50	29	32	C
HPACC-36B.25	36	40	C
HPACC-48B.25	48	50	C

FPAF

Material: PA6 MOD V0

波纹管
高防火性能波纹管
*Corrugated conduit
with excellent fire protection characteristics*

+120 °C +248 °F
-45 °C -49 °F

- 不含卤素和镉
- 柔韧性好
- 火灾危害低
- 耐化学性能好
- 适用于对防火安全要求很高的场合, 如公共交通及轨道交通车辆领域

free of halogen and cadmium
flexible
low fire hazard characteristics
good chemical resistance
for applications with a high demand for fire safety performances



数据表 / Data sheet

CE DKE 40053212 EN 45015-2 ADR EC E 10-02 RoHS REACH HALOGEN FREE

产品号 Part No.		名义尺寸 Nominal width		波形 Profile
黑色 / black	灰色 / grey	NW	metr.	
FPAFF-07B.50	FPAFF-07G.50	07	10	F
FPAFF-10B.50	FPAFF-10G.50	10	12	F
FPAFF-12B.50	FPAFF-12G.50	12	16	F
FPAFC-17B.50	FPAFC-17G.50	17	20	C
FPAFC-23B.50	FPAFC-23G.50	23	25	C
FPAFC-29B.50	FPAFC-29G.50	29	32	C
FPAFC-36B.25	FPAFC-36G.25	36	40	C
FPAFC-48B.25	FPAFC-48G.25	48	50	C
FPAFC-56B.25	FPAFC-56G.25	56	68	C
FPAFC-70B.25	FPAFC-70G.25	70	80	C
FPAFC-95B.10	FPAFC-95G.10	95	106	C
FPAFC-125B.10	FPAFC-125G.10	125	146	C



HPAF

Material: PA6 MOD V0

波纹管
高防火性能厚壁型波纹管
*Corrugated conduit
with excellent fire protection characteristics, heavy version*

+120 °C +248 °F
-45 °C -49 °F

- 不含卤素和镉
- 厚壁型
- 柔韧性较低
- 火灾危害低
- 耐化学性好
- 适用于对防火安全要求高的场合, 如公共交通及轨道交通车辆领域

free of halogen and cadmium
with increased wall thickness
marginal to low flexibility
low fire hazard characteristics
good chemical resistance
for applications with a high demand for fire safety performances



数据表 / Data sheet

CE DKE 40053212 EN 45015-2 ADR EC E 10-02 RoHS REACH HALOGEN FREE

产品号 Part No.		名义尺寸 Nominal width		波形 Profile
黑色 / black	灰色 / grey	NW	metr.	
HPAFC-17B.50	HPAFC-17G.50	17	20	C
HPAFC-23B.50	HPAFC-23G.50	23	25	C
HPAFC-29B.50	HPAFC-29G.50	29	32	C
HPAFC-36B.25	HPAFC-36G.25	36	40	C
HPAFC-48B.25	HPAFC-48G.25	48	50	C

FPAN

Material: PA6 MOD

波纹管

用于机械设备制造的标准波纹管

*Corrugated conduit
for industrial machine building*

+120 °C +248 °F
-45 °C -49 °F



- 自熄, 不含卤素和镉
- 优异的抗冲击性能, 抗压强度高
- 柔韧性好
- 耐化学性非常好
- 耐候性好
- self-extinguishing, free of halogen and cadmium
- excellent impact resistance, compression strength
- good flexibility quality
- very good chemical resistance
- good weathering performances



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW	metr.	
FPANF-07B.50	FPANF-07G.50	07	10	F
FPANF-10B.50	FPANF-10G.50	10	12	F
FPANF-12B.50	FPANF-12G.50	12	16	F
FPANF-17B.50	FPANF-17G.50	17	20	F
FPANF-23B.50	FPANF-23G.50	23	25	F
FPANF-29B.50	FPANF-29G.50	29	32	F
FPANF-36B.25	FPANF-36G.25	36	40	F
FPANF-48B.25	FPANF-48G.25	48	50	F

FPANC-17B.50	FPANC-17G.50	17	20	C
FPANC-23B.50	FPANC-23G.50	23	25	C
FPANC-29B.50	FPANC-29G.50	29	32	C
FPANC-36B.25	FPANC-36G.25	36	40	C
FPANC-48B.25	FPANC-48G.25	48	50	C

FPDS

Material: PA12 MOD BS

波纹管

具有优异的耐候性及抗疲劳性能

Corrugated conduit

with excellent fatigue strength and weathering resistance

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 抗疲劳性能优异
- 在寒冷及干燥的环境下的抗冲击性能优异
- 优异的耐UV及耐化学性能
- 适用于连续动态运动的场合
- *self-extinguishing, free of halogen and cadmium*
- *excellent fatigue strength*
- *magnificent mechanical strength regarding physical impacts also in cold and dry environments*
- *excellent UV/weather and chemical resistance*
- *suitable for continuous dynamic flexing movements*



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW	metr.	
FPDSF-07B.50	FPDSF-07G.50	07	10	F
FPDSF-10B.50	FPDSF-10G.50	10	12	F
FPDSF-12B.50	FPDSF-12G.50	12	16	F
FPDSF-17B.50	FPDSF-17G.50	17	20	F
FPDSF-23B.50	FPDSF-23G.50	23	25	F
FPDSF-29B.50	FPDSF-29G.50	29	32	F
FPDSF-36B.25	FPDSF-36G.25	36	40	F
FPDSF-48B.25	FPDSF-48G.25	48	50	F

FPDSC-17B.50	FPDSC-17G.50	17	20	C
FPDSC-23B.50	FPDSC-23G.50	23	25	C
FPDSC-29B.50	FPDSC-29G.50	29	32	C
FPDSC-36B.25	FPDSC-36G.25	36	40	C
FPDSC-48B.25	FPDSC-48G.25	48	50	C
FPDSC-56B.25	FPDSC-56G.25	56	68	C
FPDSC-70B.25	FPDSC-70G.25	70	80	C
FPDSC-95B.10	FPDSC-95G.10	95	106	C
FPDSC-125B.10	FPDSC-125G.10	125	146	C

HPDS

Material: PA12 MOD BS

波纹管

具有优异的抗疲劳性能及耐候性能的厚壁型管

Corrugated conduit

with excellent fatigue strength and weathering resistance, heavy version

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Data sheet

- 不含卤素和镉
- 厚壁型
- 在寒冷及干燥的环境下的抗冲击强度优异
- 动态抗疲劳性能优异
- 防火性能优异
- 适用于技术要求最高的应用场合
- *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*



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	NW	metr.		
HPDSF-07B.50	07	10		F
HPDSF-10B.50	10	12		F
HPDSF-12B.50	12	16		F

HPDSC-17B.50	17	20	C	
HPDSC-23B.50	23	25	C	
HPDSC-29B.50	29	32	C	
HPDSC-36B.25	36	40	C	
HPDSC-48B.25	48	50	C	
HPDSC-56B.25	56	68	C	
HPDSC-70B.25	70	80	C	
HPDSC-95B.10	95	106	C	

FPDA

Material: PA12 MOD ESD

*ESD*导电波纹管

*Antistatic corrugated conduit
for ESD applications*

+90 °C +194 °F
-45 °C -49 °F

- 自熄，不含卤素和镉
- 优异的动态抗疲劳性能
- 在寒冷及干燥的环境下的抗冲击强度优异
- 优异的耐UV及耐候性能
- 适用于需要防静电的场合



数据表 / Data sheet



HALOGEN
FREE

产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	NW	metr.	
FPDAF-07B.50	07	10	F
FPDAF-10B.50	10	12	F
FPDAF-12B.50	12	16	F
FPDAF-17B.50	17	20	F
FPDAF-23B.50	23	25	F
FPDAF-29B.50	29	32	F
FPDAF-36B.25	36	40	F
FPDAF-48B.25	48	50	F

FPDAC-56B.25	56	68	C
FPDAC-70B.25	70	80	C
FPDAC-95B.10	95	106	C

FPPS-U

Material: PP MOD BS UV

波纹管

用于户外应用

*Corrugated conduit
for versatile outdoor applications*

+105 °C
-40 °C

+221 °F
-40 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 优异的动态抗疲劳性能
- 耐化学品性能好
- 耐UV性能及耐候性能好
- self-extinguishing, free of halogen and cadmium
- very good dynamic fatigue strength
- very good chemical resistance
- very good weathering performances and UV-resistance



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	NW	metr.	
FPPSF-07U.50	07	10	F
FPPSF-10U.50	10	12	F
FPPSF-12U.50	12	16	F
FPPSF-17U.50	17	20	F
FPPSF-23U.50	23	25	F
FPPSF-29U.50	29	32	F
FPPSF-36U.25	36	40	F
FPPSF-48U.25	48	50	F

FPPSC-56U.25	56	68	C
FPPSC-70U.25	70	80	C
FPPSC-95U.10	95	106	C
FPPSC-125U.10	125	146	C

FPPO

Material: PP MOD

波纹管

用于轻微动态应用

*Corrugated conduit
for light dynamic applications*

+105 °C
-40 °C

+221 °F
-40 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 抗动态疲劳性能好
- 耐化学品性能好
- 耐候性好
- self-extinguishing, free of halogen and cadmium
- good dynamic fatigue
- very good chemical resistance
- good weathering performances

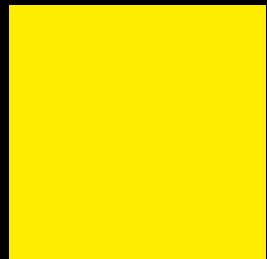
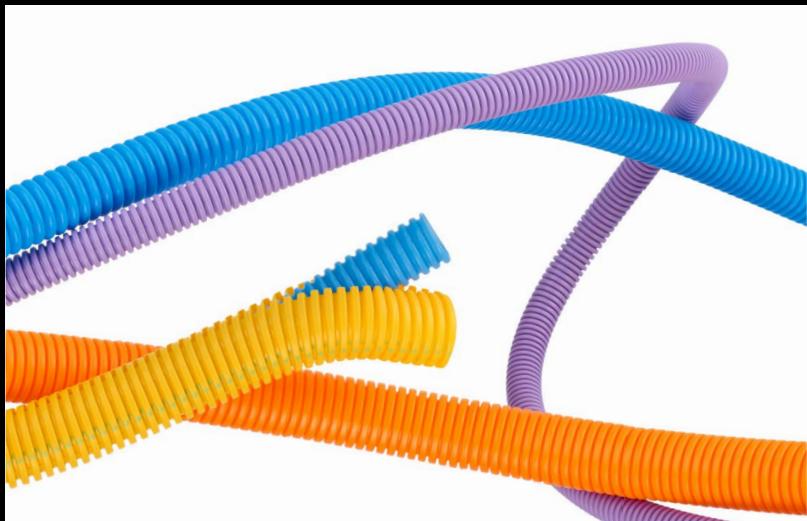


产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
黑色 / black	NW	metr.	
FPPOF-07B.50	07	10	F
FPPOF-10B.50	10	12	F
FPPOF-12B.50	12	16	F
FPPOF-17B.50	17	20	F
FPPOF-23B.50	23	25	F
FPPOF-29B.50	29	32	F
FPPOF-36B.25	36	40	F
FPPOF-48B.25	48	50	F

FPPOC-56B.25	56	68	C
FPPOC-70B.25	70	80	C
FPPOC-95B.10	95	106	C
FPPOC-125B.10	125	146	C

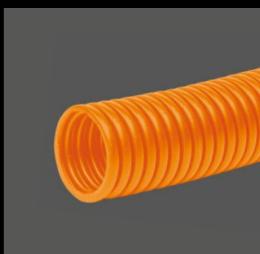
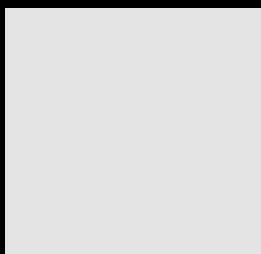
我们让世界更加多姿多彩

We make the world more **COLOURFUL**



蓝色的管子是怎样的?
(色号 RAL5015)

How about a **blue conduit?**
(similar to RAL5015)



您需要用于高压应用的波纹管吗?
(色号 RAL2003)

Or do you need a corrugated conduit
for **high voltage applications?**
(similar to RAL2003)

使您的应用多姿多彩！在这一座右铭的指引下，弗兰科希管件系统有限公司给线缆保护领域带来色彩。我们可以按照RAL标准生产任何设计需要的颜色。完美匹配您的项目要求。

联系我们 - 为您提供支持是我们的荣幸！

Colour up your application! Under this motto, FRÄNKISCHE Industrial Pipes brings colour into the world of cable protection. We manufacture corrugated pipes in any colour design according to RAL, exactly matching your project.

Contact us – we will be happy to advise you!



FPAS-0

Material: PA6 MOD BS 橙色/orange

色号 RAL2003 / similar to RAL2003

用于线缆标记的橙色波纹管

适用于各种线缆保护应用

Corrugated conduit in orange colour for marking wiring

Allrounder for various cable protection applications

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 优异的抗冲击性能, 抗压强度高
- 柔韧性好
- 防火性能好
- 适用于线缆线束需要单独标识警示的应用场合
- self-extinguishing, free of halogen and cadmium
- excellent impact resistance, compression strength
- good flexibility quality
- very good fire characteristics
- for applications in which cables or wires have to be marked separately



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
橙色orange RAL 2003	NW	metr.	
FPASF-0702.50	07	10	F
FPASF-1002.50	10	12	F
FPASF-1202.50	12	16	F
FPASF-1702.50	17	20	F
FPASF-2302.50	23	25	F
FPASF-2902.50	29	32	F
FPASF-3602.25	36	40	F
FPASF-4802.25	48	50	F

FPASC-1702.50	17	20	C
FPASC-2302.50	23	25	C
FPASC-2902.50	29	32	C
FPASC-3602.25	36	40	C
FPASC-4802.25	48	50	C
FPASC-5602.25	56	68	C
FPASC-7002-25	70	80	C
FPASC-9502.10	95	106	C
FPASC-12502.10	125	146	C

FPAN-0

Material: PA6 MOD 橙色/orange

色号 RAL2003 / similar to RAL2003

橙色波纹管, 用于需要特殊标记的线缆保护

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 优异的抗冲击性能, 抗压强度高
- 柔韧性好
- 耐化学性能好
- 耐候性好
- 适用于线缆线束需要单独标识警示的应用场合
- self-extinguishing, free of halogen and cadmium
- excellent impact resistance, compression strength
- good flexibility quality
- very good chemical resistance
- good weathering performances
- for applications in which cables or wires have to be marked separately



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
橙色orange RAL 2003	NW	metr.	
FPANF-0702.50	07	10	F
FPANF-1002.50	10	12	F
FPANF-1202.50	12	16	F
FPANF-1702.50	17	20	F
FPANF-2302.50	23	25	F
FPANF-2902.50	29	32	F
FPANF-3602.25	36	40	F
FPANF-4802.25	48	50	F

FPDS-O

Material: PA12 MOD BS 橙色/orange

色号 RAL2003 / similar to RAL2003

用于线缆标记的橙色波纹管

抗疲劳性能优异

*Corrugated conduit in orange colour for marking special wiring
with excellent fatigue strength*

+105 °C
-40 °C

+221 °F
-40 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 优异的抗动态疲劳性能
- 非常好的耐化学品性能
- 优异的耐候性
- 适用于线缆线束需要单独标识警示的应用场合

*self-extinguishing, free of halogen and cadmium
good dynamic fatigue strength
very good chemical resistance
good weathering performances
for applications in which cables or wires
have to be marked separately*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
橙色orange RAL 2003	NW	metr.	
FPDSF-0702.50	7	10	F
FPDSF-1002.50	10	12	F
FPDSF-1202.50	12	16	F
FPDSF-1702.50	17	20	F
FPDSF-2302.50	23	25	F
FPDSF-2902.50	29	32	F
FPDSF-3602.25	36	40	F
FPDSF-4802.25	48	50	F

FPDSC-1702.50	17	20	C
FPDSC-2302.50	23	25	C
FPDSC-2902.50	29	32	C
FPDSC-3602.25	36	40	C
FPDSC-4802.25	48	50	C
FPDSC-5602.25	56	68	C
FPDSC-7002.25	70	80	C
FPDSC-9502.10	95	106	C
FPDSC-12502.10	125	146	C

FPPS-O

Material: PP MOD BS 橙色/orange

色号 RAL2003 / similar to RAL2003

用于警示标识的橙色波纹管

Corrugated conduit in orange colour for marking wiring

+105 °C
-40 °C

+221 °F
-40 °F



数据表 / Data sheet

- 自熄, 不含卤素和镉
- 优异的动态抗疲劳性能
- 非常好的耐化学品性能
- 非常好的耐候性能
- 适用于线缆线束需要单独标识警示的场合

*self-extinguishing, free of halogen and cadmium
good dynamic fatigue strength
very good chemical resistance
good weathering performances
for applications in which cables or wires
have to be marked separately*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
橙色orange RAL 2003	NW	metr.	
FPPSF-0702.50	07	10	F
FPPSF-1002.50	10	12	F
FPPSF-1202.50	12	16	F
FPPSF-1702.50	17	20	F
FPPSF-2302.50	23	25	F
FPPSF-2902.50	29	32	F
FPPSF-3602.25	36	40	F
FPPSF-4802.25	48	50	F

FPAF-A

Material: PA6 MOD V0 蓝色 / blue

色号 RAL5015 / similar to RAL5015

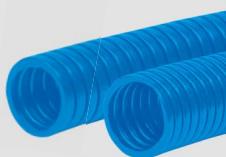
用于线缆标记的蓝色波纹管

防火性能优异

*Corrugated conduit in blue for marking special wiring
with excellent fire protection characteristics*

+120 °C
-45 °C

+248 °F
-49 °F



- 不含卤素和镉
- 自熄
- 低火灾危害特性
- 耐化学品性能好
- 适用于要求很高的防火安全以及线缆束需要单独标识的场合

- free of halogen and cadmium
- excellent self-extinguishing
- low fire hazard characteristics
- good chemical resistance
- for applications with a high demand for fire safety performances and in which cables or wires have to be marked separately



数据表 / Data sheet



产品号
Part No.

蓝色 / blue RAL5015

FPAFF-07A3.50

名义尺寸
Nominal width

NW

metr.

F

FPAFF-10A3.50

10

12

F

FPAFF-12A3.50

12

16

F

FPAFC-17A3.50

17

20

C

FPAFC-23A3.50

23

25

C

FPAFC-29A3.50

29

32

C

FPAFC-36A3.50

36

40

C

FPAFC-48A3.50

48

50

C

FPAFC-56A3.50

56

68

C

FPAFC-70A3.50

70

80

C

FPAFC-95A3.50

95

106

C

FPAFC-125A3.50

125

146

C

FPDS-A

Material: PA12 MOD BS 蓝色 / blue

色号 RAL5015 / similar to RAL5015

用于线缆标记的蓝色波纹管

优异的抗疲劳强度

*Corrugated conduit in blue for marking special wiring
with excellent fatigue strength*

+110 °C
-50 °C

+230 °F
-58 °F



- 自熄, 不含卤素和镉
- 优异的动态抗疲劳性能
- 在动态运动工况下的抗疲劳性能非常好
- 耐候性耐UV性能好
- 适用于线束线缆需要单独标识的场合

- self-extinguishing, free of halogen and cadmium
- good dynamic fatigue strength
- very high fatigue strength against continuous dynamic flexing movements
- good weathering performances and UV-resistance
- for applications in which cables or wires have to be marked separately



数据表 / Data sheet



HALOGEN FREE



产品号
Part No.

蓝色 / blue RAL5015

FPDSF-07A3.50

07

10

F

FPDSF-10A3.50

10

12

F

FPDSF-12A3.50

12

16

F

FPDSF-17A3.50

17

20

F

FPDSF-23A3.50

23

25

F

FPDSF-29A3.50

29

32

F

FPDSF-36A3.25

36

40

F

FPDSF-48A3.25

48

50

F

FPDSC-17A3.50

17

20

C

FPDSC-23A3.50

23

25

C

FPDSC-29A3.50

29

32

C

FPDSC-36A3.25

36

40

C

FPDSC-48A3.25

48

50

C

FPDSC-70A3.25

70

80

C

FPDSC-95A3.10

95

106

C

FPDSC-125A3.10

125

146

C

FPPS-U-A

Material: PP MOD BS UV 蓝色 / blue

色号 RAL5015 / similar to RAL5015

用于线缆标记的蓝色波纹管

适用于各种户外应用

*Corrugated conduit in blue for marking special wiring
for versatile outdoor applications*

+105 °C  +221 °F
-40 °C -40 °F



- 自熄, 不含卤素和镉
- 非常好的动态抗疲劳性能
- 非常好的耐化学品性能
- 非常好的耐候性及耐UV性能
- 适用于线束需要单独标记的应用场合

- self-extinguishing, free of halogen and cadmium
- very good dynamic fatigue strength
- very good chemical resistance
- very good weathering performances and UV-resistance
- for applications in which cables or wires have to be marked separately



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>		波形 <i>Profile</i>
蓝色 / blue RAL5015	NW	metr.	
FPPSF-07A3.50	07	10	F
FPPSF-10A3.50	10	12	F
FPPSF-12A3.50	12	16	F
FPPSF-17A3.50	17	20	F
FPPSF-23A3.50	23	25	F
FPPSF-29A3.50	29	32	F
FPPSF-36A3.25	36	40	F
FPPSF-48A3.25	48	50	F

FPPSC-56A3.25	56	68	C
FPPSC-70A3.25	70	80	C
FPPSC-95A3.10	95	106	C
FPPSC-125A3.10	125	146	C

接头

Fittings

用于 FIPLOCK® 产品 / for FIPLOCK® corrugated conduit range



产品概述 / Product overview

产品 Product	螺纹类型 Version	本体材料 Material body	螺纹材料 Material thread	波型 Profile	页码 Page
ASPA	M	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	41
	MMK	PA6 MOD V0 SGA	金属短螺纹 / Metal short	F/C	42
	MMK-S	PA6 MOD V0 SGA	可旋转金属短螺纹 / Metal short revolving	F/C	42
	MML	PA6 MOD V0 SGA	金属长螺纹 / Metal long	F/C	43
	MML-S	PA6 MOD V0 SGA	可旋转金属长螺纹 / Metal long revolving	F/C	43
	PG	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	44
	PGM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	45
	PGM-S	PA6 MOD V0 SGA	可旋转金属螺纹 / Metal revolving	F/C	45
	NPT	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	46
	NPTM-S	PA6 MOD V0 SGA	可旋转金属螺纹 / Metal revolving	F/C	46
AWPA/AEPA	M	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	47
	MMK	PA6 MOD V0 SGA	金属短螺纹 / Metal short	F/C	48
	MMK-S	PA6 MOD V0 SGA	可旋转金属短螺纹 / Metal short revolving	F/C	48
	MML	PA6 MOD V0 SGA	金属长螺纹 / Metal long	F/C	49
	MML-S	PA6 MOD V0 SGA	可旋转金属长螺纹 / Metal long revolving	F/C	49
	PG	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	50
	PGM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	51
	PGM-S	PA6 MOD V0 SGA	可旋转金属螺纹 / Metal revolving	F/C	51
	NPT	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	52
	NPTM-S	PA6 MOD V0 SGA	可旋转金属螺纹 / Metal revolving	F/C	52



FIPLOCK® ONE



产品 Product	螺纹型号 Version	本体材料 Material body	螺纹材料 Material thread	波型 Profile	页码 Page
AAPA	M	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	53
	MMK	PA6 MOD V0 SGA	金属短螺纹 / Metal short	F/C	54
	MMK-S	PA6 MOD V0 SGA	可旋转金属短螺纹 / Metal short revolving	F/C	54
	MML	PA6 MOD V0 SGA	金属长螺纹 / Metal long	F/C	55
	MML-S	PA6 MOD V0 SGA	可旋转金属长螺纹 / Metal long revolving	F/C	55
	PG	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	56
	PGM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	57
	PGM-S	PA6 MOD V0 SGA	可旋转金属螺纹 / Metal revolving	F/C	57
	NPT	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	58
	NPTM-S	PA6 MOD V0 SGA	可旋转金属螺纹 / Metal revolving	F/C	58
AFPA	M	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	59
	MM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	59
	PG	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	60
	PGM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	60
	U-M	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	61
	U-A	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	62
	U-B	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	62

接头 继续

Fittings *Continued*

用于 FIPLOCK® 产品 / for FIPLOCK® product range



产品概述 / Product overview

产品 Product	螺纹类型 Version	本体材料 Material bodypart	螺纹材料 Material thread	波型 Profile	页码 Page
AZPA	C	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	63
	M	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	63
	MMK	PA6 MOD V0 SGA	金属短螺纹 / Metal short	F/C	64
	MML	PA6 MOD V0 SGA	金属长螺纹 / Metal long	F/C	64
	PG	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	65
	PGM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	65
	NPT	PA6 MOD V0 SGA	塑料螺纹 / Plastic	F/C	66
	NPTM	PA6 MOD V0 SGA	金属螺纹 / Metal	F/C	66
ATPA	—	PA6 MOD V0 SGA	—	F/C	67
ATPA-CA	—	PA6 MOD V0 SGA	—	F/C	67
AYPA	—	PA6 MOD V0 SGA	—	F/C	68
ARPA	—	PA6 MOD V0 SGA	—	F/C	68
AIPA	M	PA6 MOD V0 SGA	—	F/C	69
	PG	PA6 MOD V0 SGA	—	F/C	69
ACPA	—	PA6 MOD V0 SGA	—	F/C	70
ACPA-SH	—	PA6 MOD V0 SGA	—	F/C	70
APPA	EPDM	PA6 MOD V0 SGA	塑料 / Plastic	F/C	71
	NBR	PA6 MOD V0 SGA	塑料 / Plastic	F/C	71
ASPA-HV	—	PA6 MOD V0 SGA	塑料 / Plastic	F/C	72



FIPLOCK® ONE



应用 / Applications

我们的 FIPLOCK® ONE 接头与我们的 FIPLOCK® 标准波纹管配合适用于各种不同的应用的解决方案:

Our FIPLOCK® ONE fittings are suitable for a wide range of individual adaptation solutions with our FIPLOCK® corrugated conduits:



FIPLOCK® ONE 接头编码规则

Part numbering key FIPLOCK® ONE fittings



1 接头 / Fitting line

A = FIPLOCK® ONE 接头
FIPLOCK® ONE fitting

2 接头类型 / Fitting type

- S = 直型 straight
- E = 90° 曲线弯头 / 90° curved elbow
- W = 90° 弯头 / 90° elbow
- A = 45° 弯头 / 45° elbow
- F = 内螺纹, 直型
with female thread, straight
- Z = 应力释放, 直型
Strain relief, straight
- T = T型接头/-适配接头
T-distributor/-adapter
- Y = Y型接头
Y-distributor
- R = 变径接头
Conduit reducer
- I = 波纹管转接光管连接接头
Conduit intercoupler corrugated to smooth tube
- C = 波纹管耦合接头
Conduit coupler
- P = 带法兰密封垫的90°弯头
Fitting 90° elbow with flange gasket

3 材料类型 / Material type

PA = PA6 MOD V0 SGA (FIPLOCK® ONE)

4 名义尺寸 / Nominal width (NW)

07 = 最小尺寸 NW / smallest NW
到 / to
48 = 最大尺寸 NW / largest NW

分线接头 / Distributors

231717 = NW 23/NW 17/NW 17

5 螺纹制式 / Thread type

- M = 公制 / metric
- F = 公制细螺纹 metric fine
- P = PG
- N = NPT
- U = UNEF/UNS/UN
- S = 可旋转 / revolving

6 螺纹尺寸 / Thread size

见第39页螺纹表
see thread table on page 39

7 螺纹材料 / Thread material

- P = 塑料 / Plastic
- M = 金属 / Metal

8 颜色 / Colour

- B = 标准黑色 / Standard black
- G = 标准灰色 / Standard grey

9 螺纹长度或卡箍尺寸

Thread length or modification code

螺纹代码

Thread codes

FIPLOCK® ONE

类型 Type	螺纹尺寸 Thread size	零件代码 Part numbering key
M = 公制 <i>metric</i> EN 60423	M12x1,5	M12
	M16x1,5	M16
	M20x1,5	M20
	M25x1,5	M25
	M32x1,5	M32
	M40x1,5	M40
	M50x1,5	M50
	M63x1,5	M63

F = 公制细螺纹 <i>fine metric</i> DIN 13-5	M08x1	F08
	M12x1	F12
	M18x1	F18
	M30x1	F30

P = PG DIN 40430	PG7	P07
	PG9	P09
	PG11	P11
	PG13,5	P13
	PG16	P16
	PG21	P21
	PG29	P29
	PG36	P36
	PG42	P42
	PG48	P48

U = UNEF ANSI/ASME B1.1 内螺纹/ <i>female</i>	1/4"-32 UNEF	U06
	5/16"-32 UNEF	U08
	3/8"-32 UNEF	U09
	7/16"-28 UNEF	U11
	1/2"-28 UNEF	U12
	9/16"-24 UNEF	U13
	5/8"-24 UNEF	U15
	11/16" UNEF	U16
	3/4"-20 UNEF	U18
	13/16"-20 UNEF	U20
	7/8"-20 UNEF	U21
	15/16"-20 UNEF	U23
	1"-20 UNEF	U24

类型 Type	螺纹尺寸 Thread size	零件代码 Part numbering key
U = UNEF ANSI/ASME B1.1 内螺纹/ <i>female</i>	1-1/16"-18 UNEF	U26
	1-1/8"-18 UNEF	U28
	1-3/16"-18 UNEF	U29
	1-1/4"-18 UNEF	U30
	1-5/16"-18 UNEF	U32
	1-3/8"-18 UNEF	U34
	1-7/16"-18 UNEF	U35
	1-1/2"-18 UNEF	U36
	1-9/16"-18 UNEF	U39
	1-5/8"-18 UNEF	U40
G = Gas DIN ISO 228 (DIN 259)	1-11/16"-18 UNEF	U41
	1-3/4"-18 UNS	U43
	2"-18 UNS	U50
	2-1/4"-16 UN	U56
	2-1/2"-16UN	U62
	Gas 1/4"	G00
	Gas 3/8"	G01
	Gas 1/2"	G02
	Gas 3/4"	G04
	Gas 1"	G06
N = NPT ANSI/ASME B1.20.1	Gas 1-1/4"	G07
	Gas 1-1/2"	G08
	Gas 2"	G09
	Gas 2-1/4"	G10
	Gas 2-1/2"	G11
	NPT 3/8"	N01
	NPT 1/2"	N02
	NPT 3/4"	N04
	NPT 1"	N06
	NPT 1-1/4"	N07
N = NPT ANSI/ASME B1.20.1	NPT 1-1/2"	N08
	NPT 2"	N09

IP-防护等级，参照标准 EN60529

Ingress protection (IP) according to EN60529

例如IP69 / Example IP69

IP 6 9	
第一位数字: 防尘等级尘密级	protected against penetration of dust
Second digit: 防水等级防止高压水蒸气的进入	high pressure steam cleaner

第一位数字 / First digit		第二位数字 / Second digit	
0	无防护 <i>not protected</i>	0	无防护 <i>not protected</i>
1	防止直径 ≥ 50 mm固体异物 <i>with diameter ≥ 50 mm</i>	1	防止垂直方向滴水 <i>vertical water drips</i>
2	防止直径 $\geq 12,5$ mm固体异物 <i>with diameter $\geq 12,5$ mm</i>	2	防止滴水(外壳在15°范围内倾斜时) <i>drips (up to 15° angle)</i>
3	防止直径 $\geq 2,5$ mm固体异物 <i>with diameter $\geq 2,5$ mm</i>	3	防止淋水(各垂直面在60°范围内淋水) <i>spray water (up to 60° angle)</i>
4	防止直径 $\geq 1,0$ mm固体异物 <i>with diameter $\geq 1,0$ mm</i>	4	防溅水 <i>splashed water</i>
5	防尘 <i>protected against dust</i>	5	防喷水 <i>strong water jet</i>
6	尘密 <i>protected against penetration of dust</i>	6	防强烈喷水 <i>strong water jet with pressure</i>
		7	防短时间浸水影响 <i>temporary immersion</i>
		8	防持续浸水影响 <i>continuous immersion</i>
		9	防高压水蒸气影响 <i>high pressure steam cleaner</i>

ASPA-M

Material: PA6 MOD V0 SGA

直接头

公制，塑料螺纹

*Fitting straight
metric, plastic thread*

+120 °C
-50 °C

+248 °F
-58 °F

- 直接头，适配FIPLOCK®标准波纹管细波形和粗波形
- 塑料公制螺纹
- 自熄，耐大多数常见化学品
- 耐UV性能优异
- 小袋包装，预装发货
- *straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *metric plastic thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



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产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	灰色 / grey	NW
ASPA-07M12PB	ASPA-07M12PG	07
ASPA-10M12PB	ASPA-10M12PG	10
ASPA-10M16PB	ASPA-10M16PG	10
ASPA-10M20PB	ASPA-10M20PG	10
ASPA-12M16PB	ASPA-12M16PG	12
ASPA-12M20PB	ASPA-12M20PG	12
ASPA-17M20PB	ASPA-17M20PG	17
ASPA-17M25PB	ASPA-17M25PG	17
ASPA-23M25PB	ASPA-23M25PG	23
ASPA-23M32PB	ASPA-23M32PG	23
ASPA-29M32PB	ASPA-29M32PG	29
ASPA-29M40PB	ASPA-29M40PG	29
ASPA-36M40PB	ASPA-36M40PG	36
ASPA-36M50PB	ASPA-36M50PG	36
ASPA-48M50PB	ASPA-48M50PG	48
ASPA-48M63PB	ASPA-48M63PG	48

ASPA-MMK

Material: PA6 MOD V0 SGA

直接头

公制, 金属短螺纹

Fitting straight

metric, metal thread, short

+120 °C
-50 °C

+248 °F
-58 °F



- 直接头, 适配FIPLOCK®标准波纹管细波形和粗波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *metric short metal thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
ASPA-10M12MB-5	ASPA-10M12MG-5	10
ASPA-10M16MB-5	ASPA-10M16MG-5	10
ASPA-12M16MB-5	ASPA-12M16MG-5	12
ASPA-12M20MB-6	ASPA-12M20MG-6	12
ASPA-17M20MB-6	ASPA-17M20MG-6	17
ASPA-17M25MB-7	ASPA-17M25MG-7	17
ASPA-23M25MB-7	ASPA-23M25MG-7	23
ASPA-23M32MB-8	ASPA-23M32MG-8	23
ASPA-29M32MB-8	ASPA-29M32MG-8	29
ASPA-29M40MB-8	ASPA-29M40MG-8	29
ASPA-36M40MB-8	ASPA-36M40MG-8	36
ASPA-36M50MB-9	ASPA-36M50MG-9	36
ASPA-48M50MB-9	ASPA-48M50MG-9	48
ASPA-48M63MB-10	ASPA-48M63MG-10	48

ASPA-MMK-S

Material: PA6 MOD V0 SGA

可旋转直接头

公制, 金属短螺纹

Fitting straight revolving
metric, metal thread, short

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转直接头, 适配FIPLOCK® 标准波纹管粗波形和细波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *revolving straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *metric short metal thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
ASPA-10M12SB-5	10	M12x1,5
ASPA-10M16SB-5	10	M16x1,5
ASPA-12M16SB-5	12	M16x1,5
ASPA-12M20SB-6	12	M20x1,5
ASPA-17M20SB-6	17	M20x1,5
ASPA-17M25SB-7	17	M25x1,5
ASPA-23M25SB-7	23	M25x1,5
ASPA-23M32SB-8	23	M32x1,5
ASPA-29M32SB-8	29	M32x1,5
ASPA-29M40SB-8	29	M40x1,5
ASPA-36M32SB-8	36	M32x1,5
ASPA-36M40SB-8	36	M40x1,5
ASPA-36M50SB-9	36	M50x1,5
ASPA-48M50SB-9	48	M50x1,5
ASPA-48M63SB-10	48	M63x1,5

ASPA-MML

Material: PA6 MOD V0 SGA

直接头

公制, 金属长螺纹

Fitting straight

metric, metal thread, long

+120 °C
-50 °C

+248 °F
-58 °F



- 直接头, 适配FIPLOCK®标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *metric long metal thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
ASPA-10M12MB-10	ASPA-10M12MG-10	10 M12x1,5
ASPA-10M16MB-10	ASPA-10M16MG-10	10 M16x1,5
ASPA-12M16MB-10	ASPA-12M16MG-10	12 M16x1,5
ASPA-12M20MB-10	ASPA-12M20MG-10	12 M20x1,5
ASPA-17M20MB-10	ASPA-17M20MG-10	17 M20x1,5
ASPA-17M25MB-11	ASPA-17M25MG-11	17 M25x1,5
ASPA-23M25MB-11	ASPA-23M25MG-11	23 M25x1,5
ASPA-23M32MB-13	ASPA-23M32MG-13	23 M32x1,5
ASPA-29M32MB-13	ASPA-29M32MG-13	29 M32x1,5
ASPA-29M40MB-13	ASPA-29M40MG-13	29 M40x1,5
ASPA-36M40MB-13	ASPA-36M40MG-13	36 M40x1,5
ASPA-36M50MB-14	ASPA-36M50MG-14	36 M50x1,5
ASPA-48M50MB-14	ASPA-48M50MG-14	48 M50x1,5
ASPA-48M63MB-14	ASPA-48M63MG-14	48 M63x1,5

ASPA-MML-S

Material: PA6 MOD V0 SGA

可旋转直接头

公制, 金属长螺纹

Fitting straight revolving
metric, metal thread, long

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *revolving straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *metric long metal thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
ASPA-10M12SB-10	10	M12x1,5
ASPA-10M16SB-10	10	M16x1,5
ASPA-12M16SB-10	12	M16x1,5
ASPA-12M20SB-10	12	M20x1,5
ASPA-17M20SB-10	17	M20x1,5
ASPA-17M25SB-11	17	M25x1,5
ASPA-23M25SB-11	23	M25x1,5
ASPA-23M32SB-13	23	M32x1,5
ASPA-29M32SB-13	29	M32x1,5
ASPA-29M40SB-13	29	M40x1,5
ASPA-36M32SB-13	36	M32x1,5
ASPA-36M40SB-13	36	M40x1,5
ASPA-36M50SB-14	36	M50x1,5
ASPA-48M50SB-14	48	M50x1,5
ASPA-48M63SB-14	48	M63x1,5

ASPA-PG

Material: PA6 MOD V0 SGA

直接头

PG, 塑料螺纹

*Fitting straight
PG, plastic thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 直接头, 适配 FIPLOCK® 标准波纹管细波形和粗波形
- PG制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *PG plastic thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



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HALOGEN
FREE



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	灰色 / grey	NW	
ASPA-07P07PB	ASPA-07P07PG	07	PG07
ASPA-10P09PB	ASPA-10P09PG	10	PG09
ASPA-12P11PB	ASPA-12P11PG	12	PG11
ASPA-12P13PB	ASPA-12P13PG	12	PG13,5
ASPA-17P16PB	ASPA-17P16PG	17	PG16
ASPA-23P21PB	ASPA-23P21PG	23	PG21
ASPA-29P29PB	ASPA-29P29PG	29	PG29
ASPA-36P36PB	ASPA-36P36PG	36	PG36
ASPA-48P48PB	ASPA-48P48PG	48	PG48

ASPA-PGM

Material: PA6 MOD V0 SGA

直接头

PG, 金属螺纹

Fitting straight
PG, metal thread

+120 °C
-50 °C

+248 °F
-58 °F



- 直接头, 适配 FIPLOCK® 标准波纹管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *PG metal thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
ASPA-10P09MB	ASPA-10P09MG	10
ASPA-12P11MB	ASPA-12P11MG	12
ASPA-17P13MB	ASPA-17P13MG	17
ASPA-17P16MB	ASPA-17P16MG	17
ASPA-23P21MB	ASPA-23P21MG	23
ASPA-23P29MB	ASPA-23P29MG	23
ASPA-29P29MB	ASPA-29P29MG	29
ASPA-36P36MB	ASPA-36P36MG	36
ASPA-48P48MB	ASPA-48P48MG	48
		PG09
		PG11
		PG13,5
		PG16
		PG21
		PG29
		PG36
		PG48

ASPA-PGM-S

Material: PA6 MOD V0 SGA

可旋转直接头

PG, 金属螺纹

Fitting straight revolving
PG, metal thread

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转直接头, 适配 FIPLOCK® 标准管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *revolving straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *PG metal thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
ASPA-10P09SB-12	10	PG9
ASPA-12P09SB-12	12	PG9
ASPA-12P13SB-13	12	PG13
ASPA-17P13SB-13	17	PG13
ASPA-17P16SB-13	17	PG16
ASPA-23P16SB-13	23	PG16
ASPA-23P21SB-14	23	PG21
ASPA-29P29SB-14	29	PG29
ASPA-36P29SB-14	36	PG29
ASPA-36P36SB-17	36	PG36
ASPA-48P36SB-17	48	PG36
ASPA-48P48SB-17	48	PG48

ASPA-NPT

Material: PA6 MOD V0 SGA

直接头
NPT塑料螺纹
*Fitting straight
NPT, plastic thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 直接头, 适配 FIPLOCK® 标准波纹管细波形和粗波形
- NPT塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW	
ASPA-10N01PB	ASPA-10N01PG	10	NPT 3/8"
ASPA-12N02PB	ASPA-12N02PG	12	NPT 1/2"
ASPA-17N02PB	ASPA-17N02PG	17	NPT 1/2"
ASPA-23N04PB	ASPA-23N04PG	23	NPT 3/4"
ASPA-29N06PB	ASPA-29N06PG	29	NPT 1"
ASPA-36N07PB	ASPA-36N07PG	36	NPT 1-1/4"
ASPA-48N08PB	ASPA-48N08PG	48	NPT 1-1/2"
ASPA-48N09PB	ASPA-48N09PG	48	NPT 2"



ASPA-NPTM-S

Material: PA6 MOD V0 SGA

可旋转直接头
NPT, 金属螺纹
*Fitting straight revolving
NPT, metal thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- NPT制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- revolving straight fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW		
ASPA-10N01SB-10	10	NPT 3/8"	
ASPA-12N01SB-10	12	NPT 3/8"	
ASPA-12N02SB-13	12	NPT 1/2"	
ASPA-17N02SB-13	17	NPT 1/2"	
ASPA-17N04SB-14	17	NPT 3/4"	
ASPA-23N04SB-14	23	NPT 3/4"	
ASPA-23N06SB-17	23	NPT 1"	
ASPA-29N07SB-18	29	NPT 1-1/4"	
ASPA-36N07SB-18	36	NPT 1-1/4"	
ASPA-36N08SB-18	36	NPT 1-1/4"	
ASPA-48N08SB-18	48	NPT 1-1/2"	
ASPA-48N09SB-19	48	NPT 2"	

AWPA-M / AEPA-M

+120 °C
-50 °C

+248 °F
-58 °F

Material: PA6 MOD V0 SGA

90°弯接头

公制, 塑料螺纹

*Fitting 90° curved elbow
metric, plastic thread*

- 90°弯接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- 公制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 90° curved elbow suitable for FIPLOCK®
corrugated conduits with fine and coarse profile
- metric plastic thread
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



NFPA
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HALOGEN
FREE



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / <i>black</i>	灰色 / <i>grey</i>	NW	
AWPA-07M12PB	AWPA-07M12PG	07	M12x1,5
AWPA-10M12PB	AWPA-10M12PG	10	M12x1,5
AWPA-10M16PB	AWPA-10M16PG	10	M16x1,5
AWPA-10M20PB	AWPA-10M20PG	10	M20x1,5
AWPA-12M16PB	AWPA-12M16PG	12	M16x1,5
AWPA-12M20PB	AWPA-12M20PG	12	M20x1,5

AEPA-17M20PB	AEPA-17M20PG	17	M20x1,5
AEPA-17M25PB	AEPA-17M25PG	17	M25x1,5
AEPA-23M25PB	AEPA-23M25PG	23	M25x1,5
AEPA-23M32PB	AEPA-23M32PG	23	M32x1,5
AEPA-29M32PB	AEPA-29M32PG	29	M32x1,5
AEPA-29M40PB	AEPA-29M40PG	29	M40x1,5
AEPA-36M40PB	AEPA-36M40PG	36	M40x1,5
AEPA-36M50PB	AEPA-36M50PG	36	M50x1,5
AEPA-48M50PB	AEPA-48M50PG	48	M50x1,5
AEPA-48M63PB	AEPA-48M63PG	48	M63x1,5

AWPA-/AEPA-MMK

Material: PA6 MOD V0 SGA

90°弯接头

公制, 金属短螺纹

Fitting 90° curved elbow
metric, metal thread, short

+120 °C
-50 °C

+248 °F
-58 °F



- 90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric short metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



NFPA
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HALOGEN
FREE

AWPA-/AEPA-MMK-S

Material: PA6 MOD V0 SGA

可旋转90°弯接头
公制, 金属长螺纹

Fitting 90° curved elbow revolving
metric, metal thread, short

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转 90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- revolving fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric short metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



NFPA
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HALOGEN
FREE

产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW	
AWPA-10M12MB-5	AWPA-10M12MG-5	10	M12x1,5
AWPA-10M16MB-5	AWPA-10M16MG-5	10	M16x1,5
AWPA-12M16MB-5	AWPA-12M16MG-5	12	M16x1,5
AWPA-12M20MB-6	AWPA-12M20MG-6	12	M20x1,5

AEPA-17M20MB-6	AEPA-17M20MG-6	17	M20x1,5
AEPA-17M25MB-7	AEPA-17M25MG-7	17	M25x1,5
AEPA-23M25MB-7	AEPA-23M25MG-7	23	M25x1,5
AEPA-23M32MB-8	AEPA-23M32MG-8	23	M32x1,5
AEPA-29M32MB-8	AEPA-29M32MG-8	29	M32x1,5
AEPA-29M40MB-8	AEPA-29M40MG-8	29	M40x1,5
AEPA-36M40MB-8	AEPA-36M40MG-8	36	M40x1,5
AEPA-36M50MB-9	AEPA-36M50MG-9	36	M50x1,5
AEPA-48M50MB-9	AEPA-48M50MG-9	48	M50x1,5
AEPA-48M63MB-10	AEPA-48M63MG-10	48	M63x1,5

AWPA-/AEPA-MML

Material: PA6 MOD V0 SGA

90°弯接头

公制,金属长螺纹

*Fitting 90° curved elbow
metric, metal thread, long*

+120 °C
-50 °C

+248 °F
-58 °F



- 90°接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric long metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
AWPA-10M12MB-10	AWPA-10M12MG-10	10 M12x1,5
AWPA-10M16MB-10	AWPA-10M16MG-10	10 M16x1,5
AWPA-12M16MB-10	AWPA-12M16MG-10	12 M16x1,5
AWPA-12M20MB-10	AWPA-12M20MG-10	12 M20x1,5

AEPA-17M20MB-10	AEPA-17M20MG-10	17 M20x1,5
AEPA-17M25MB-11	AEPA-17M25MG-11	17 M25x1,5
AEPA-23M25MB-11	AEPA-23M25MG-11	23 M25x1,5
AEPA-23M32MB-13	AEPA-23M32MG-13	23 M32x1,5
AEPA-29M32MB-13	AEPA-29M32MG-13	29 M32x1,5
AEPA-29M40MB-13	AEPA-29M40MG-13	29 M40x1,5
AEPA-36M40MB-13	AEPA-36M40MG-13	36 M40x1,5
AEPA-36M50MB-14	AEPA-36M50MG-14	36 M50x1,5
AEPA-48M50MB-14	AEPA-48M50MG-14	48 M50x1,5
AEPA-48M63MB-14	AEPA-48M63MG-14	48 M63x1,5

AWPA-/AEPA-MML-S

Material: PA6 MOD V0 SGA

可旋转90°弯接头

公制,金属长螺纹

*Fitting 90° curved elbow revolving
metric, metal thread, long*

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- revolving fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric long metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
AWPA-10M12SB-10	10	M12x1,5
AWPA-10M16SB-10	10	M16x1,5
AWPA-12M16SB-10	12	M16x1,5
AWPA-12M20SB-10	12	M20x1,5

AEPA-17M20SB-10	17	M20x1,5
AEPA-17M25SB-11	17	M25x1,5
AEPA-23M25SB-11	23	M25x1,5
AEPA-23M32SB-13	23	M32x1,5
AEPA-29M32SB-13	29	M32x1,5
AEPA-29M40SB-13	29	M40x1,5
AEPA-36M32SB-13	36	M32x1,5
AEPA-36M40SB-13	36	M40x1,5
AEPA-36M50SB-14	36	M50x1,5
AEPA-48M50SB-14	48	M50x1,5
AEPA-48M63SB-14	48	M63x1,5

AWPA-/AEPA-PG

Material: PA6 MOD V0 SGA

90°弯接头

PG制塑料螺纹

Fitting 90° curved elbow

PG, plastic thread

+120 °C
-50 °C

+248 °F
-58 °F



- 90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
FREE



产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW	
AWPA-07P07PB	AWPA-07P07PG	07	PG07
AWPA-10P09PB	AWPA-10P09PG	10	PG09
AWPA-12P11PB	AWPA-12P11PG	12	PG11
AWPA-12P13PB	AWPA-12P13PG	12	PG13,5

AEPA-17P16PB	AEPA-17P16PG	17	PG16
AEPA-23P21PB	AEPA-23P21PG	23	PG21
AEPA-29P29PB	AEPA-29P29PG	29	PG29
AEPA-36P36PB	AEPA-36P36PG	36	PG36
AEPA-48P48PB	AEPA-48P48PG	48	PG48

AWPA-/AEPA-PGM

Material: PA6 MOD V0 SGA

90°弯接头

PG制金属螺纹

Fitting 90° curved elbow

PG, metal thread

+120 °C
-50 °C



+248 °F
-58 °F



- 90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
FREE



AWPA-/AEPA-PGM-S

+120 °C
-50 °C



+248 °F
-58 °F

Material: PA6 MOD V0 SGA

可旋转90°弯接头

PG制金属螺纹

Fitting 90° curved elbow revolving

PG, metal thread



- 可旋转90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- revolving fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
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产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black AWPA-10P09MB	灰色 / grey AWPA-10P09MG	NW 10 PG09
AWPA-12P11MB	AWPA-12P11MG	12 PG11

AEPA-17P13MB	AEPA-17P13MG	17	PG13,5
AEPA-17P16MB	AEPA-17P16MG	17	PG16
AEPA-23P21MB	AEPA-23P21MG	23	PG21
AEPA-29P29MB	AEPA-29P29MG	29	PG29
AEPA-36P36MB	AEPA-36P36MG	36	PG36
AEPA-48P48MB	AEPA-48P48MG	48	PG48



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black AWPA-10P09SB-12	NW 10 PG9	
AWPA-12P09SB-12	12 PG9	
AWPA-12P11SB-12	12 PG11	
AWPA-12P13SB-13	12 PG13	

AEPA-17P13SB-13	17	PG13
AEPA-17P16SB-13	17	PG16
AEPA-23P16SB-13	23	PG16
AEPA-23P21SB-14	23	PG21
AEPA-29P29SB-14	29	PG29
AEPA-36P29SB-14	36	PG29
AEPA-36P36SB-17	36	PG36
AEPA-48P36SB-17	48	PG36
AEPA-48P48SB-17	48	PG48

AWPA-/AEPA-NPT

Material: PA6 MOD V0 SGA

90°弯接头

NPT, 塑料螺纹

Fitting 90° curved elbow

NPT, plastic thread

+120 °C
-50 °C

+248 °F
-58 °F



数据表 / Data sheet

- 90°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- NPT塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black AWPA-10N01PB	灰色 / grey AWPA-10N01PG	10 NPT 3/8"
AWPA-12N02PB	AWPA-12N02PG	12 NPT 1/2"

AEPA-17N02PB	AEPA-17N02PG	17	NPT 1/2"
AEPA-23N04PB	AEPA-23N04PG	23	NPT 3/4"
AEPA-29N06PB	AEPA-29N06PG	29	NPT 1"
AEPA-36N07PB	AEPA-36N07PG	36	NPT 1-1/4"
AEPA-48N08PB	AEPA-48N08PG	48	NPT 1-1/2"
AEPA-48N09PB	AEPA-48N09PG	48	NPT 2"

AWPA-/AEPA-NPTM-S

+120 °C
-50 °C

+248 °F
-58 °F

Material: PA6 MOD V0 SGA

90°可旋转弯接头

NPT, 金属螺纹

Fitting 90° curved elbow revolving

NPT, metal thread



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- 90°可旋转弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- NPT制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- revolving fitting 90° curved elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black AWPA-10N01SB-13	10	NPT 3/8"
AWPA-12N01SB-13	12	NPT 3/8"
AWPA-12N02SB-13	12	NPT 1/2"

AEPA-17N02SB-13	17	NPT 1/2"
AEPA-17N04SB-14	17	NPT 3/4"
AEPA-23N04SB-14	23	NPT 3/4"
AEPA-23N06SB-17	23	NPT 1"
AEPA-29N07SB-18	29	NPT 1-1/4"
AEPA-36N07SB-18	36	NPT 1-1/4"
AEPA-36N08SB-18	36	NPT 1-1/2"
AEPA-48N08SB-18	48	NPT 1-1/2"
AEPA-48N09SB-19	48	NPT 2"

AAPA-M

Material: PA6 MOD V0 SGA

45°弯接头

公制, 塑料螺纹

Fitting 45° elbow

metric, plastic thread

+120 °C
-50 °C

+248 °F
-58 °F



- 45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
schwarz / black	grau / grey	NW
AAPA-10M12PB	AAPA-10M12PG	10 M12x1,5
AAPA-10M16PB	AAPA-10M16PG	10 M16x1,5
AAPA-12M16PB	AAPA-12M16PG	12 M16x1,5
AAPA-12M20PB	AAPA-12M20PG	12 M20x1,5
AAPA-17M20PB	AAPA-17M20PG	17 M20x1,5
AAPA-17M25PB	AAPA-17M25PG	17 M25x1,5
AAPA-23M25PB	AAPA-23M25PG	23 M25x1,5
AAPA-29M32PB	AAPA-29M32PG	29 M32x1,5
AAPA-36M40PB	AAPA-36M40PG	36 M40x1,5
AAPA-36M50PB	AAPA-36M50PG	36 M50x1,5
AAPA-48M50PB	AAPA-48M50PG	48 M50x1,5
AAPA-48M63PB	AAPA-48M63PG	48 M63x1,5

AAPA-MMK

Material: PA6 MOD V0 SGA

45°弯接头

公制, 金属短螺纹

Fitting 45° elbow

metric, metal thread, short

+120 °C
-50 °C

+248 °F
-58 °F



- 45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric short metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
AAPA-10M12MB-5	AAPA-10M12MG-5	10 M12x1,5
AAPA-12M16MB-5	AAPA-12M16MG-5	12 M16x1,5
AAPA-17M20MB-6	AAPA-17M20MG-6	17 M20x1,5
AAPA-23M25MB-7	AAPA-23M25MG-7	23 M25x1,5
AAPA-29M32MB-8	AAPA-29M32MG-8	29 M32x1,5
AAPA-36M40MB-8	AAPA-36M40MG-8	36 M40x1,5
AAPA-48M50MB-9	AAPA-48M50MG-9	48 M50x1,5
AAPA-48M63MB-10	AAPA-48M63MG-10	48 M63x1,5

AAPA-MMK-S

Material: PA6 MOD V0 SGA

45°可旋转弯接头
公制, 金属短螺纹

*Fitting 45° elbow revolving
metric, metal thread, short*

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装出货

- revolving fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric short metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



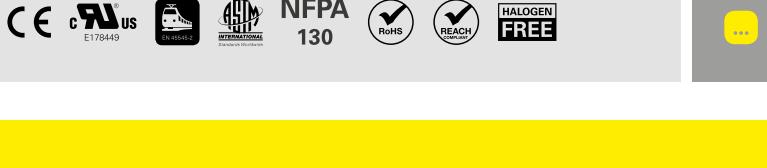
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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
AAPA-10M12SB-5	10	M12x1,5
AAPA-10M16SB-5	10	M16x1,5
AAPA-12M16SB-5	12	M16x1,5
AAPA-12M20SB-6	12	M20x1,5
AAPA-17M20SB-6	17	M20x1,5
AAPA-17M25SB-7	17	M25x1,5
AAPA-23M25SB-7	23	M25x1,5
AAPA-23M32SB-8	23	M32x1,5
AAPA-29M32SB-8	29	M32x1,5
AAPA-29M40SB-8	29	M40x1,5
AAPA-36M32SB-8	36	M32x1,5
AAPA-36M40SB-8	36	M40x1,5
AAPA-36M50SB-9	36	M50x1,5
AAPA-48M50SB-9	48	M50x1,5
AAPA-48M63SB-10	48	M63x1,5

AAPA-MML

Material: PA6 MOD V0 SGA

45°弯接头

公制, 金属长螺纹

Fitting 45° elbow

metric, metal thread, long

+120 °C
-50 °C

+248 °F
-58 °F



- 45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric long metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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RoHS

REACH
COMPLIANT

HALOGEN
FREE

AAPA-MML-S

Material: PA6 MOD V0 SGA

45°可旋转弯接头

公制, 金属长螺纹

*fitting straight revolving
metric, metal thread, long*

+120 °C
-50 °C

+248 °F
-58 °F



- 45°可旋转弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- straight swivel fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric long metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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RoHS

REACH
COMPLIANT

HALOGEN
FREE

产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
AAPA-10M12MB-10	AAPA-10M12MG-10	10 M12x1,5
AAPA-12M16MB-10	AAPA-12M16MG-10	12 M16x1,5
AAPA-17M20MB-10	AAPA-17M20MG-10	17 M20x1,5
AAPA-17M25MB-11	AAPA-17M25MG-11	17 M25x1,5
AAPA-23M25MB-11	AAPA-23M25MG-11	23 M25x1,5
AAPA-23M32MB-13	AAPA-23M32MG-13	23 M32x1,5
AAPA-29M32MB-13	AAPA-29M32MG-13	29 M32x1,5
AAPA-29M40MB-13	AAPA-29M40MG-13	29 M40x1,5
AAPA-36M40MB-13	AAPA-36M40MG-13	36 M40x1,5
AAPA-36M50MB-14	AAPA-36M50MG-14	36 M50x1,5
AAPA-48M50MB-14	AAPA-48M50MG-14	48 M50x1,5
AAPA-48M63MB-14	AAPA-48M63MG-14	48 M63x1,5

产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
AAPA-10M12SB-10	10	M12x1,5
AAPA-10M16SB-10	10	M16x1,5
AAPA-12M16SB-10	12	M16x1,5
AAPA-12M20SB-10	12	M20x1,5
AAPA-17M20SB-10	17	M20x1,5
AAPA-17M25SB-11	17	M25x1,5
AAPA-23M25SB-11	23	M25x1,5
AAPA-23M32SB-13	23	M32x1,5
AAPA-29M32SB-13	29	M32x1,5
AAPA-29M40SB-13	29	M40x1,5
AAPA-36M32SB-13	36	M32x1,5
AAPA-36M40SB-13	36	M40x1,5
AAPA-36M50SB-14	36	M50x1,5
AAPA-48M50SB-14	48	M50x1,5
AAPA-48M63SB-14	48	M63x1,5

AAPA-PG

Material: PA6 MOD V0 SGA

45°弯接头

PG制, 塑料螺纹

Fitting 45° elbow

PG, plastic thread

+120 °C
-50 °C

+248 °F
-58 °F



- 45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
FREE



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	灰色 / grey	NW	
AAPA-10P09PB	AAPA-10P09PG	10	PG 9
AAPA-12P11PB	AAPA-12P11PG	12	PG 11
AAPA-17P16PB	AAPA-17P16PG	17	PG 16
AAPA-23P21PB	AAPA-23P21PG	23	PG 21
AAPA-29P29PB	AAPA-29P29PG	29	PG 29
AAPA-36P36PB	AAPA-36P36PG	36	PG 36
AAPA-48P48PB	AAPA-48P48PG	48	PG 48

AAPA-PGM

Material: PA6 MOD V0 SGA

45°弯接头

PG制, 金属螺纹

Fitting 45° elbow

PG, metal thread

+120 °C
-50 °C

+248 °F
-58 °F



- 45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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AAPA-PGM-S

Material: PA6 MOD V0 SGA

可旋转45°弯接头

PG制, 金属螺纹

Fitting 45° elbow revolving

PG, metal thread

+120 °C
-50 °C

+248 °F
-58 °F



- 可旋转45°弯接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货

- revolving fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
AAPA-10P09MB	AAPA-10P09MG	10
AAPA-12P11MB	AAPA-12P11MG	12
AAPA-17P13MB	AAPA-17P13MG	17
AAPA-17P16MB	AAPA-17P16MG	17
AAPA-23P21MB	AAPA-23P21MG	23
AAPA-29P29MB	AAPA-29P29MG	29
AAPA-36P36MB	AAPA-36P36MG	36
AAPA-48P48MB	AAPA-48P48MG	48

AAPA-NPT

Material: PA6 MOD V0 SGA

45°弯接头
NPT, 塑料螺纹
*Fitting 45° elbow
NPT, plastic thread*

+120 °C
-50 °C +248 °F
-58 °F



- 45°弯接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- NPT制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW	
AAPA-12N02PB	AAPA-12N02PG	12	NPT 1/2"
AAPA-17N02PB	AAPA-17N02PG	17	NPT 1/2"
AAPA-23N04PB	AAPA-23N04PG	23	NPT 3/4"
AAPA-29N06PB	AAPA-29N06PG	29	NPT 1"
AAPA-36N07PB	AAPA-36N07PG	36	NPT 1-1/4"
AAPA-48N08PB	AAPA-48N08PG	48	NPT 1-1/2"



AAPA-NPTM-S

Material: PA6 MOD V0 SGA

可旋转45°弯接头
NPT, 金属螺纹
*Fitting 45° elbow revolving
NPT, metal thread*

+120 °C
-50 °C +248 °F
-58 °F



- 可旋转45°弯接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- NPT制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- revolving fitting 45° elbow suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW		
AAPA-10N01SB-10	10	3/8"	
AAPA-12N01SB-10	12	3/8"	
AAPA-12N02SB-13	12	1/2"	
AAPA-17N02SB-13	17	1/2"	
AAPA-17N04SB-14	17	3/4"	
AAPA-23N04SB-14	23	3/4"	
AAPA-23N06SB-17	23	1"	
AAPA-29S07SB-18	29	1-1/4"	
AAPA-36N07SB-18	36	1-1/2"	
AAPA-36N08SB-18	36	1-1/2"	
AAPA-48N08SB-18	48	1-1/2"	
AAPA-48N09SB-19	48	2"	

AFPA-M

Material: PA6 MOD V0 SGA

直型内螺纹接头
公制，塑料螺纹

*Fitting female thread
straight, metric, plastic thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting female thread suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
AFPA-10M16PB	AFPA-10M16PG	10 M16x1,5
AFPA-12M16PB	AFPA-12M16PG	12 M16x1,5
AFPA-17M20PB	AFPA-17M20PG	17 M20x1,5
AFPA-23M25PB	AFPA-23M25PG	23 M25x1,5
AFPA-29M32PB	AFPA-29M32PG	29 M32x1,5
AFPA-36M40PB	AFPA-36M40PG	36 M40x1,5
AFPA-48M50PB	AFPA-48M50PG	48 M50x1,5
AFPA-48M63PB	AFPA-48M63PG	48 M63x1,5

AFPA-MM

Material: PA6 MOD V0 SGA

直型内螺纹接头
公制, 金属螺纹

*Fitting female thread
straight, metric, metal thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting female thread suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- metric metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
AFPA-10M12MB	10	M12x1,5
AFPA-10M16MB	10	M16x1,5
AFPA-12M16MB	12	M16x1,5
AFPA-17M20MB	17	M20x1,5
AFPA-17M25MB	17	M25x1,5
AFPA-23M25MB	23	M25x1,5
AFPA-29M32MB	29	M32x1,5
AFPA-36M40MB	36	M40x1,5
AFPA-48M50MB	48	M50x1,5
AFPA-48M63MB	48	M63x1,5

AFPA-PG

Material: PA6 MOD V0 SGA

直型内螺纹接头

PG制, 塑料螺纹

*Fitting female thread
straight, PG, plastic thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting female thread suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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HALOGEN
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产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW	
AFPA-10P09PB	AFPA-10P09PG	10	PG9
AFPA-12P11PB	AFPA-12P11PG	12	PG11
AFPA-17P13PB	AFPA-17P13PG	17	PG13,5
AFPA-17P16PB	AFPA-17P16PG	17	PG16
AFPA-23P21PB	AFPA-23P21PG	23	PG21
AFPA-29P29PB	AFPA-29P29PG	29	PG29
AFPA-36P36PB	AFPA-36P36PG	36	PG36
AFPA-48P48PB	AFPA-48P48PG	48	PG48

AFPA-PGM

Material: PA6 MOD V0 SGA

直型内螺纹接头

PG制, 塑料螺纹

*Fitting female thread
straight, PG, metal thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting female thread suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW		
AFPA-10P09MB	10	PG 9	
AFPA-10P11MB	10	PG 11	
AFPA-12P11MB	12	PG 11	
AFPA-17P16MB	17	PG 16	
AFPA-23P21MB	23	PG 21	
AFPA-29P29MB	29	PG 29	
AFPA-36P36MB	36	PG 36	
AFPA-48P48MB	48	PG 48	

AFPA-U-M

Material: PA6 MOD V0 SGA

直型内螺纹接头
UNEF/UNS, 塑料螺纹, MIL DTL 5015

*Fitting female thread
straight, UNEF/UNS, plastic thread, MIL DTL 5015*

+120 °C
-50 °C

+248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- UNEF塑料螺纹, 适配 MIL DTL 5015系列连接器
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting female thread suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- UNEF plastic thread for MIL DTL 5015 connector series
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	NW	
AFPA-10U21PB-M	10	7/8"UNEF
AFPA-12U15PB-M	12	5/8"UNEF
AFPA-12U21PB-M	12	7/8"UNEF
AFPA-12U24PB-M	12	1"UNEF
AFPA-12U29PB-M	12	1-3/16"UNEF
AFPA-12U35PB-M	12	1-7/16"UNEF
AFPA-17U18PB-M	17	3/4"UNEF
AFPA-17U21PB-M	17	7/8"UNEF
AFPA-17U24PB-M	17	1"UNEF
AFPA-17U29PB-M	17	1-3/16"UNEF
AFPA-17U35PB-M	17	1-7/16"UNEF
AFPA-17U43PB-M	17	1-3/4"UNS
AFPA-23U24PB-M	23	1"UNEF
AFPA-23U29PB-M	23	1-3/16"UNEF
AFPA-23U35PB-M	23	1-7/16"UNEF
AFPA-23U43PB-M	23	1-3/4"UNS
AFPA-23U50PB-M	23	2"UNS
AFPA-23U56PB-M	23	2-1/4"UNS
AFPA-29U29PB-M	29	1-3/16"UNEF
AFPA-29U35PB-M	29	1-7/16"UNEF
AFPA-29U43PB-M	29	1-3/4"UNS
AFPA-29U50PB-M	29	2"UNS
AFPA-29U56PB-M	29	2-1/4"UNS
AFPA-36U35PB-M	36	1-7/16"UNEF
AFPA-36U43PB-M	36	1-3/4"UNS
AFPA-36U50PB-M	36	2"UNS
AFPA-36U56PB-M	36	2-1/4"UNS
AFPA-48U50PB-M	48	2"UNS
AFPA-48U56PB-M	48	2-1/4"UNS

FIPLOCK® ONE

适用于各种工业连接器

Suitable for various industrial connectors

AFPA

匹配MIL DTL 5015连接器

for MIL DTL 5015 connectors



AFPA

匹配MIL DTL 5015连接器

for MIL DTL 5015 connectors



AFPA

匹配Souriau UTG6 连接器

for Souriau UTG6 connectors



ONE
fits all

AFPA-U-A

Material: PA6 MOD V0 SGA

直型内螺纹接头
UNEF, 塑料螺纹, AMP CPC

*Fitting female thread
straight, UNEF, plastic thread, for AMP CPC*

+120 °C
-50 °C +248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- UNEF塑料螺纹, 匹配AMP - CPC系列连接器
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装出货
- fitting female thread suitable for FIPLOCK®
corrugated conduits with fine and coarse profile
- UNEF plastic thread for AMP-CPC series connectors
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	NW	
AFPA-07U15PB-A	07	5/8"UNEF
AFPA-10U15PB-A	10	5/8"UNEF
AFPA-10U18PB-A	10	3/4"UNEF
AFPA-12U15PB-A	12	5/8"UNEF
AFPA-12U18PB-A	12	3/4"UNEF
AFPA-12U23PB-A	12	15/16"UNEF
AFPA-12U40PB-A	12	1-5/8"UNEF
AFPA-17U18PB-A	17	3/4"UNEF
AFPA-17U23PB-A	17	15/16"UNEF
AFPA-17U34PB-A	17	1-3/8"UNEF
AFPA-17U40PB-A	17	1-5/8"UNEF
AFPA-23U23PB-A	23	15/16"UNEF
AFPA-23U34PB-A	23	1-3/8"UNEF
AFPA-23U40PB-A	23	1-5/8"UNEF

AFPA-U-B

Material: PA6 MOD V0 SGA

直型内螺纹接头
UNEF, 塑料螺纹, Souriau UTG-6

*Fitting female thread
straight, UNEF, plastic thread, Souriau UTG-6*

+120 °C
-50 °C +248 °F
-58 °F



- 直型内螺纹接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- UNEF塑料螺纹, 匹配UTG-6/UTO/UTS 及 ITT Cannon Trident
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting female thread suitable for FIPLOCK®
corrugated conduits with fine and coarse profile
- UNEF plastic thread for Souriau connector series
UTG-6/UTO/UTS and ITT Cannon Trident
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	NW	
AFPA-10U16PB-B	10	11/16"UNEF
AFPA-12U16PB-B	12	11/16"UNEF
AFPA-12U20PB-B	12	13/16"UNEF
AFPA-12U23PB-B	12	15/16"UNEF
AFPA-17U23PB-B	17	15/16"UNEF
AFPA-17U26PB-B	17	1-1/16"UNEF
AFPA-17U29PB-B	17	1-3/16"UNEF
AFPA-17U35PB-B	17	1-7/16"UNEF
AFPA-23U29PB-B	23	1-3/16"UNEF
AFPA-23U32PB-B	23	1-5/16"UNEF
AFPA-23U35PB-B	23	1-7/16"UNEF
AFPA-29U35PB-B	29	1-7/16"UNEF

AZPA-C**Material: PA6 MOD V0 SGA**应力消除直接头
卡扣式, 公制*Fitting strain relief straight
click, metric*


- 应力消除直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 带塑料倒扣锁紧系统, 用于不能做螺纹安装孔的场合
- 自熄, 耐大多数常见化学品
- 耐UV性能优异

- *fitting strain relief suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *click system made out of plastic adapted for metric panel holes where lock-nuts can not be applied from the backside*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*



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产品号 Part No.		名义尺寸 Nominal width	开孔尺寸 Ø Hole Ø
黑色 / black	灰色 / grey	NW	mm
AZPA-10C16PB	AZPA-10C16PG	10	16,3 (-0,2)
AZPA-12C16PB	AZPA-12C16PG	12	16,3 (-0,2)
AZPA-12C20PB	AZPA-12C20PG	12	20,3 (-0,2)
AZPA-17C20PB	AZPA-17C20PG	17	20,3 (-0,2)
AZPA-17C25PB	AZPA-17C25PG	17	25,3 (-0,2)
AZPA-23C25PB	AZPA-23C25PG	23	25,3 (-0,2)
AZPA-23C32PB	AZPA-23C32PG	23	32,3 (-0,2)
AZPA-29C32PB	AZPA-29C32PG	29	32,3 (-0,2)

AZPA-M**Material: PA6 MOD V0 SGA**应力消除直接头
公制, 塑料螺纹*Fitting strain relief straight
metric, plastic thread*


- 应力消除直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 公制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装出货

- *fitting strain relief suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *metric plastic thread*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



产品号 Part No.		名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW	
AZPA-10M16PB	AZPA-10M16PG	10	M16x1,5
AZPA-12M16PB	AZPA-12M16PG	12	M16x1,5
AZPA-12M20PB	AZPA-12M20PG	12	M20x1,5
AZPA-17M20PB	AZPA-17M20PG	17	M20x1,5
AZPA-17M25PB	AZPA-17M25PG	17	M25x1,5
AZPA-23M25PB	AZPA-23M25PG	23	M25x1,5
AZPA-23M32PB	AZPA-23M32PG	23	M32x1,5
AZPA-29M32PB	AZPA-29M32PG	29	M32x1,5
AZPA-29M40PB	AZPA-29M40PG	29	M40x1,5
AZPA-36M40PB	AZPA-36M40PG	36	M40x1,5
AZPA-36M50PB	AZPA-36M50PG	36	M50x1,5
AZPA-48M50PB	AZPA-48M50PG	48	M50x1,5
AZPA-48M63PB	AZPA-48M63PG	48	M63x1,5

AZPA-MMK**Material: PA6 MOD V0 SGA**应力消除直接头
公制, 金属短螺纹*Fitting strain relief straight
metric, metal thread, short*+120 °C
-50 °C+248 °F
-58 °F

- 应力消除直接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- 公制金属短螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装出货
- fitting strain relief suitable for FIPLOCK®
corrugated conduits with fine and coarse profile
- metric short metal thread
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



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产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	NW	
AZPA-10M12MB-BL1	10	M12x1,5
AZPA-10M16MB-BL1	10	M16x1,5
AZPA-12M16MB-BL1	12	M16x1,5
AZPA-12M20MB-BL1	12	M20x1,5
AZPA-17M20MB-BL1	17	M20x1,5
AZPA-17M25MB-BL1	17	M25x1,5
AZPA-23M25MB-BL1	23	M25x1,5
AZPA-23M32MB-BL1	23	M32x1,5
AZPA-29M32MB-BL1	29	M32x1,5
AZPA-29M40MB-BL1	29	M40x1,5
AZPA-36M40MB-BL1	36	M40x1,5
AZPA-36M50MB-BL1	36	M50x1,5
AZPA-48M50MB-BL1	48	M50x1,5

AZPA-MML**Material: PA6 MOD V0 SGA**应力消除直接头
公制, 金属长螺纹*Fitting strain relief straight
metric, metal thread, long*+120 °C
-50 °C+248 °F
-58 °F

- 应力消除直接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- 公制金属长螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting strain relief suitable for FIPLOCK®
corrugated conduits with fine and coarse profile
- metric long metal thread
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet

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产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	NW	
AZPA-10M12MB-BL2	10	M12x1,5
AZPA-10M16MB-BL2	10	M16x1,5
AZPA-12M16MB-BL2	12	M16x1,5
AZPA-12M20MB-BL2	12	M20x1,5
AZPA-17M20MB-BL2	17	M20x1,5
AZPA-17M25MB-BL2	17	M25x1,5
AZPA-23M25MB-BL2	23	M25x1,5
AZPA-23M32MB-BL2	23	M32x1,5
AZPA-29M32MB-BL2	29	M32x1,5
AZPA-29M40MB-BL2	29	M40x1,5
AZPA-36M40MB-BL2	36	M40x1,5
AZPA-36M50MB-BL2	36	M50x1,5
AZPA-48M50MB-BL2	48	M50x1,5
AZPA-48M63MB-BL2	48	M63x1,5

AZPA-PG**Material: PA6 MOD V0 SGA**

应力消除直接头

PG制, 塑料螺纹

*Fitting strain relief straight**PG, plastic thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 应力消除直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting strain relief suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	灰色 / grey	NW
AZPA-10P09PB	AZPA-10P09PG	10 PG 09
AZPA-12P09PB	AZPA-12P09PG	12 PG 09
AZPA-12P11PB	AZPA-12P11PG	12 PG 11
AZPA-12P13PB	AZPA-12P13PG	12 PG 13
AZPA-17P13PB	AZPA-17P13PG	17 PG 13
AZPA-17P16PB	AZPA-17P16PG	17 PG 16
AZPA-23P16PB	AZPA-23P16PG	23 PG 16
AZPA-23P21PB	AZPA-23P21PG	23 PG 21
AZPA-29P29PB	AZPA-29P29PG	29 PG 29
AZPA-36P36PB	AZPA-36P36PG	36 PG 36
AZPA-48P48PB	AZPA-48P48PG	48 PG 48

AZPA-PGM**Material: PA6 MOD V0 SGA**

应力消除直接头

PG制, 金属螺纹

*Fitting strain relief straight**PG, metal thread*

+120 °C
-50 °C

+248 °F
-58 °F



- 应力消除直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- PG制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting strain relief suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- PG metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 Part No.	名义尺寸 Nominal width	螺纹尺寸 Thread
黑色 / black	NW	
AZPA-10P09MB-BL1	10	PG09
AZPA-10P11MB-BL1	10	PG11
AZPA-12P11MB-BL1	12	PG11
AZPA-12P13MB-BL1	12	PG13,5
AZPA-17P16MB-BL1	17	PG16
AZPA-23P21MB-BL1	23	PG21
AZPA-29P29MB-BL1	29	PG29
AZPA-36P36MB-BL1	36	PG36
AZPA-48P48MB-BL1	48	PG48

AZPA-NPT**Material: PA6 MOD V0 SGA**消除应力直接头
NPT, 塑料螺纹*Fitting strain relief straight
NPT, plastic thread*






- 应力消除直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- NPT制塑料螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting strain relief suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT plastic thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet

**AZPA-NPTM****Material: PA6 MOD V0 SGA**应力消除直接头
NPT, 金属螺纹*Fitting strain relief straight
NPT, metal thread*






- 应力消除直接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- NPT制金属螺纹
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- fitting strain relief suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NPT metal thread
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread</i>
黑色 / black	灰色 / grey	
AZPA-10N01PB	AZPA-10N01PG	10 NPT 3/8"
AZPA-12N01PB	AZPA-12N01PG	12 NPT 3/8"
AZPA-12N02PB	AZPA-12N02PG	12 NPT 1/2"
AZPA-17N02PB	AZPA-17N02PG	17 NPT 1/2"
AZPA-23N04PB	AZPA-23N04PG	23 NPT 3/4"
AZPA-29N06PB	AZPA-29N06PG	29 NPT 1"

ATPA

Material: PA6 MOD V0 SGA

T型接头
T-distributor

+120 °C
-50 °C +248 °F
-58 °F



- T型接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *T-distributor suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>		
黑色 / black	灰色 / grey	NW1	NW2	NW3
ATPA-101010B	ATPA-101010G	10	10	10
ATPA-121212B	ATPA-121212G	12	12	12
ATPA-171717B	ATPA-171717G	17	17	17
ATPA-232323B	ATPA-232323G	23	23	23
ATPA-292929B	ATPA-292929G	29	29	29
ATPA-363636B	ATPA-363636G	36	36	36
ATPA-484848B	ATPA-484848G	48	48	48



ATPA-CA

Material: PA6 MOD V0 SGA

T型适配器
T-adapter

+120 °C
-50 °C +248 °F
-58 °F



- T型适配器, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- 可直接连接其他管接头
- *T-adapter suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*
- *directly connectable in series*



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>		
黑色 / black	灰色 / grey	NW1	NW2	NW3
ATPA-101010B-CA	ATPA-101010G-CA	10	10	10
ATPA-121212B-CA	ATPA-121212G-CA	12	12	12
ATPA-171717B-CA	ATPA-171717G-CA	17	17	17
ATPA-232323B-CA	ATPA-232323G-CA	23	23	23
ATPA-292929B-CA	ATPA-292929G-CA	29	29	29
ATPA-363636B-CA	ATPA-363636G-CA	36	36	36
ATPA-484848B-CA	ATPA-484848G-CA	48	48	48



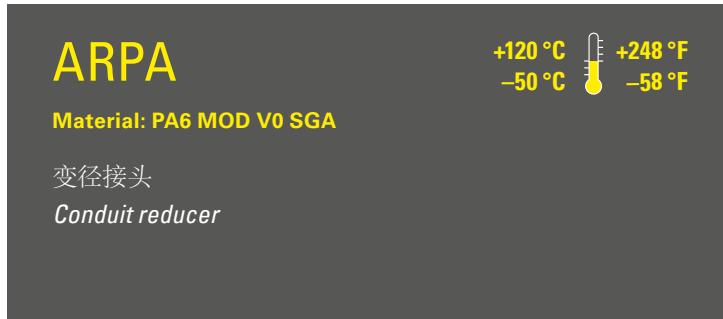
- Y型接头, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *Y-distributor suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



产品号 Part No.		名义尺寸 Nominal width		
黑色 / black	灰色 / grey	NW1	NW2	NW3
AYPA-100707B	AYPA-100707G	10	07	07
AYPA-121010B	AYPA-121010G	12	10	10
AYPA-171212B	AYPA-171212G	17	12	12
AYPA-231717B	AYPA-231717G	23	17	17
AYPA-292323B	AYPA-292323G	29	23	23
AYPA-362929B	AYPA-362929G	36	29	29
AYPA-483636B	AYPA-483636G	48	36	36



- 将接头波纹管连接端变径为更小波纹管尺寸
- 适配FIPLOCK® 标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *to reduce the conduit nominal width at a fitting conduit outlet*
- *suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



产品号 Part No.		名义尺寸 Nominal width	
黑色 / black	灰色 / grey	NW1	NW2
ARPA-0710B	ARPA-0710G	07	10
ARPA-1012B	ARPA-1012G	10	12
ARPA-1017B	ARPA-1017G	10	17
ARPA-1023B	ARPA-1023G	10	23
ARPA-1029B	ARPA-1029G	10	29
ARPA-1217B	ARPA-1217G	12	17
ARPA-1223B	ARPA-1223G	12	23
ARPA-1229B	ARPA-1229G	12	29
ARPA-1723B	ARPA-1723G	17	23
ARPA-1729B	ARPA-1729G	17	29
ARPA-2329B	ARPA-2329G	23	29
ARPA-2336B	ARPA-2336G	23	36
ARPA-2936B	ARPA-2936G	29	36
ARPA-2948B	ARPA-2948G	29	48
ARPA-3648B	ARPA-3648G	36	48

AIPA-M

Material: PA6 MOD V0 SGA

波纹管和公制光管连接接头

Conduit intercoupler corrugated to smooth tube metric

+120 °C
-50 °C

+248 °F
-58 °F



- 连接公制光管, 带不锈钢卡夹
- 适配FIPLOCK® 标准波纹管细波形及粗波形, 连接光管
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- metric smooth conduit intercoupler with stainless steel jubilee clamp
- allows the connection of FIPLOCK® corrugated conduits with fine and coarse profile with smooth tubes
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	管径 Ø Conduit Ø
黑色 / black	灰色 / grey	NW
AIPA-12M16B-27	AIPA-12M16G-27	12
AIPA-17M18B-27	AIPA-17M18G-27	17
AIPA-17M20B-27	AIPA-17M20G-27	17
AIPA-23M25B-32	AIPA-23M25G-32	23
AIPA-29M32B-40	AIPA-29M32G-40	29
AIPA-36M40B-50	AIPA-36M40G-50	36
AIPA-48M50B-60	AIPA-48M50G-60	48

AIPA-PG

Material: PA6 MOD V0 SGA

波纹管和PG光管连接接头

Conduit intercoupler corrugated to smooth tube PG

+120 °C
-50 °C

+248 °F
-58 °F



- 连接PG制光管, 带不锈钢卡夹
- 适配FIPLOCK® 标准波纹管细波形及粗波形, 连接光管
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- PG smooth conduit intercoupler with stainless steel jubilee clamp
- allows the connection of FIPLOCK® corrugated conduits with fine and coarse profile with smooth tubes
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



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HALOGEN
FREE



产品号 Part No.	名义尺寸 Nominal width	管径 Ø Conduit Ø
黑色 / black	灰色 / grey	NW
AIPA-12P11B-27	AIPA-12P11G-27	12
AIPA-17P13B-27	AIPA-17P13G-27	17
AIPA-17P16B-32	AIPA-17P16G-32	17
AIPA-23P21B-40	AIPA-23P21G-40	23
AIPA-29P29B-50	AIPA-29P29G-50	29
AIPA-36P36B-60	AIPA-36P36G-60	36
AIPA-48P48B-70	AIPA-48P48G-70	48

ACPA

Material: PA6 MOD V0 SGA

波纹管连接接头
Conduit connector

+120 °C +248 °F
-50 °C -58 °F

- 波纹管连接接头适配FIPLOCK®
标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- conduit connector suitable for FIPLOCK®
corrugated conduits with fine and coarse profile
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>
黑色 / black	灰色 / grey	NW
ACPA-12B	ACPA-12G	12
ACPA-17B	ACPA-17G	17
ACPA-23B	ACPA-23G	23
ACPA-29B	ACPA-29G	29
ACPA-36B	ACPA-36G	36
ACPA-48B	ACPA-48G	48

ACPA-SH

Material: PA6 MOD V0 SGA

波纹管连接接头
带固定安装孔
*Conduit connector
with mounting option*

+120 °C +248 °F
-50 °C -58 °F

- 带固定安装孔波纹管连接接头, 适配FIPLOCK®
标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- conduit connector with mounting option suitable
for FIPLOCK® corrugated conduits with fine and
coarse profile
- self-extinguishing and resistant against most
chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>
黑色 / black	灰色 / grey	NW
ACPA-12B-SH	ACPA-12G-SH	12
ACPA-17B-SH	ACPA-17G-SH	17
ACPA-23B-SH	ACPA-23G-SH	23
ACPA-29B-SH	ACPA-29G-SH	29
ACPA-36B-SH	ACPA-36G-SH	36
ACPA-48B-SH	ACPA-48G-SH	48

APPA-EPDM

Material: PA6 MOD V0 SGA

90° 弯接头
带EPDM法兰衬垫

Fitting 90° elbow
with EPDM fitting gasket

+120 °C
-50 °C

+248 °F
-58 °F



- 90°弯接头，适配FIPLOCK® 标准波纹管细波形和粗波形
- EPDM法兰衬垫
- 自熄，耐大多数常见化学品
- 耐UV性能优异
- 小袋包装，预装发货
- 90° fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- EPDM fitting gasket
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



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HALOGEN
FREE



产品号 Part No.		名义尺寸 Nominal width
黑色 / black	灰色 / grey	NW
APPA-17P16PB	APPA-17P16PG	17
APPA-23P21PB	APPA-23P21PG	23
APPA-29P29PB	APPA-29P29PG	29
APPA-36P36PB	APPA-36P36PG	36
APPA-48P48PB	APPA-48P48PG	48

APPA-NBR

Material: PA6 MOD V0 SGA

90° 弯接头
带NBR法兰衬垫

Fitting 90° elbow
with NBR fitting gasket

+120 °C
-50 °C

+248 °F
-58 °F



- 90°弯接头，适配FIPLOCK® 标准波纹管细波形和粗波形
- NBR法兰衬垫
- 自熄，耐大多数常见化学品
- 耐UV性能优异
- 小袋包装，预装发货
- 90° fitting suitable for FIPLOCK® corrugated conduits with fine and coarse profile
- NBR fitting gasket
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance
- pre-assembled in small packing units



数据表 / Data sheet



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HALOGEN
FREE



产品号 Part No.		名义尺寸 Nominal width
黑色 / black	灰色 / grey	NW
APPA-17P16PB-01	APPA-17P16PG-01	17
APPA-23P21PB-01	APPA-23P21PG-01	23
APPA-29P29PB-01	APPA-29P29PG-01	29
APPA-36P36PB-01	APPA-36P36PG-01	36
APPA-48P48PB-01	APPA-48P48PG-01	48

ASPA-HV

Material: PA6 MOD V0 SGA

用于管路末端, 牵引及运输的接头
Termination, draw-in and transport fitting

+120 °C
 -50 °C

+248 °F
 -58 °F



数据表 / Data sheet

- 可循环使用, 末端带挂孔, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- 特别适用于波纹管末端需要密封, 或者管子在运输中需要挂起的场合
- *re-usable, termination fitting with lifting lug, suitable for FIPLOCK® corrugated conduits with fine and coarse profile*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*
- *specially considerable for seal-tight conduit termination or as a lifting device during transportation*



NFPA
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HALOGEN
FREE



产品号
Part No.

黑色 / black

ASPA-23-HV

ASPA-36-HV

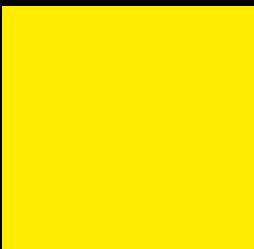
名义尺寸
Nominal width

NW

FIPLOCK® ONE - ONE fits ALL

适用所有应用场合

ONE fitting for ALL applications



- 预装出货，拿来即用
- 选型简单
- 备库压力小
- 易使用
- 易安装
- 节省成本



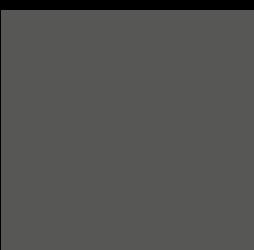
- pre-assembled and ready-to-fit
- easy selection
- lower storage effort
- little handling necessary
- faster installation
- cost savings

FIPLOCK® XL

也适用于管径NW56以上的尺寸。

Also for cable conduits from nominal diameter 56.

NEW



有 90°弯接头
和直接头可选。

*Available in straight
and 90° angle design.*



适配NW56以上管径的管接头

Fittings starting from nominal width 56

用于FIPLOCK® 产品 / for FIPLOCK® product range



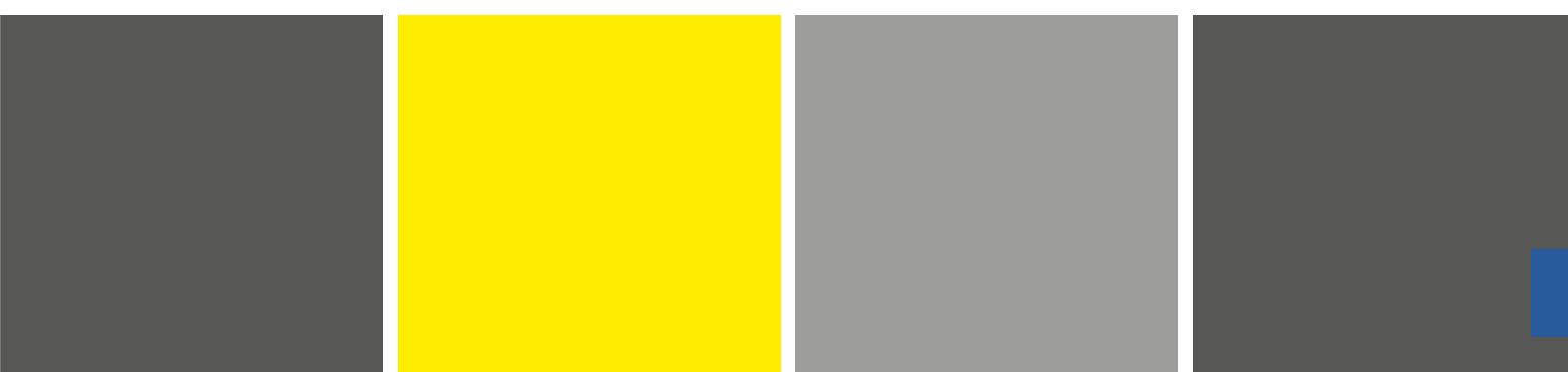
产品概述 / Product overview

产品 Product	材料 Material	页码 Page
JSPA	PA6 MOD V0 SGA	78
JWPA	PA6 MOD V0 SGA	78





FIPLOCK® XL



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>	工厂	太阳能	风能	铁路	铁路	起重机	船舶	实验室	天线	控制室
JSPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
JWPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

FIPLOCK® XL 编码规则

Part numbering key FIPLOCK® XL fittings



1 接头 XL / *Fitting line XL*

J = FIPLOCK® XL 接头
FIPLOCK® XL fitting

6 螺纹材料 / *Thread material*

P = 塑料 / *Plastic*

2 接头类型 / *Fitting type*

S = 直型 / *straight*
W = 90° 弯接头 / *90° elbow*

7 颜色 / *Colour*

B = 标准黑色
Standard black
G = 标准灰色
Standard grey

3 材料类型 / *Material type*

PA = PA6 MOD V0 SGA

4 名义尺寸 / *Nominal width (NW)*

56 = 最小 NW / *smallest NW*
到 / *to*
125 = 最大 NW / *largest NW*

5 安装螺纹尺寸 / *Mounting screw*

公制, M6
metric, size 6

IP-防护等级，参照标准 EN60529

Ingress protection (IP) according to EN60529

例如IP69 / Example IP69

IP 6 9

第一位数字: 防尘等级尘密级 _____
First digit: protected against penetration of dust

第二位数字: 防水等级防止高压水蒸气的进入
Second digit: high pressure steam cleaner _____

第一位数字 / First digit		第二位数字 / Second digit	
0	无防护 <i>not protected</i>	0	无防护 <i>not protected</i>
1	防止直径 $\geq 50 \text{ mm}$ 的固体异物 <i>with diameter $\geq 50 \text{ mm}$</i>	1	防止垂直方向滴水 <i>vertical water drips</i>
2	防止直径 $\geq 12,5 \text{ mm}$ 的固体异物 <i>with diameter $\geq 12,5 \text{ mm}$</i>	2	防止滴水(外壳在 15° 范围内倾斜时) <i>drips (up to 15° angle)</i>
3	防止直径 $\geq 2,5 \text{ mm}$ 的固体异物 <i>with diameter $\geq 2,5 \text{ mm}$</i>	3	防止淋水(各垂直面在 60° 范围内淋水) <i>spray water (up to 60° angle)</i>
4	防止直径 $\geq 1,0 \text{ mm}$ 的固体异物 <i>with diameter $\geq 1,0 \text{ mm}$</i>	4	防溅水 <i>splashed water</i>
5	防尘 <i>protected against dust</i>	5	防喷水 <i>strong water jet</i>
6	尘密 <i>protected against penetration of dust</i>	6	防强烈喷水 <i>strong water jet with pressure</i>
		7	防短时间浸水影响 <i>temporary immersion</i>
		8	防持续浸水影响 <i>continuous immersion</i>
		9	防高压水蒸气影响 <i>high pressure steam cleaner</i>

JSPA

Material: PA6 MOD V0 SGA

直型接头
Fitting straight

+120 °C
-50 °C

+248 °F
-58 °F



- 直接头, 适配FIPLOCK®标准波纹管NW56以上细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *straight fitting suitable for FIPLOCK® corrugated conduits with coarse profile starting from nominal width 56*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW
JSPA-56M6PB	JSPA-56M6PG	56
JSPA-70M6PB	JSPA-70M6PG	70
JSPA-95M6PB	JSPA-95M6PG	95
JSPA-125M6PB	JSPA-125M6PG	125

JWPA

Material: PA6 MOD V0 SGA

90° 弯接头
Fitting 90° elbow

+120 °C
-50 °C

+248 °F
-58 °F



- 90°弯接头, 适配FIPLOCK® 标准波纹管NW56以上细波形和粗波形
- 自熄, 耐大多数常见化学品
- 耐UV性能优异
- 小袋包装, 预装发货
- *90° elbow fitting suitable for FIPLOCK® corrugated conduits with coarse profile starting from nominal width 56*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*
- *pre-assembled in small packing units*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW
JWPA-56M6PB	JWPA-56M6PG	56
JWPA-70M6PB	JWPA-70M6PG	70
JWPA-95M6PB	JWPA-95M6PG	95

铁路技术领域最高性能表现

Highest performance for railway technology



安全是铁路运输技术领域最关键的要求。特别对于每天运送数百万人的交通工具来说，只有最好的才是好的。弗兰科希管件系统有限公司的 FIPSYSTEMS® 系列产品拥有各种产品认证，确保了在防火和最高机械动态负载应用上，无论是车内应用还是车外应用对线缆线束的保护。

Safety is the top priority in rail transport technology. Especially for means of transport that move millions of people every day, only the best is good enough: a wide range of approved products from FRÄNKISCHE Industrial Pipes' FIPSYSTEMS® cable protection range ensures reliable fire protection and the highest mechanical as well as dynamic load capacity for the protection of cables and wires, both inside trains and outside.

查询更多信息: www.fraenkische.de/bahn

Find out more: www.fraenkische.com/railway



CHN



EN



附件

Accessories

用于FIPLOCK®产品 / for FIPLOCK® product range



产品概述 / Product overview

产品 Product	材料 Material	页码 Page
COPA-S	PA6 MOD V0 SGA	86
COPA-H	PA6 MOD V0 SGA	86
CRPA/CXPA	PA6 MOD V0 SGA	87
BSPA	PA6 MOD V0 SGA	88
BSPA-BJ	PA6 MOD V0 SGA	88
BRPA	PA6 MOD V0 SGA	89
BHPA	PA6 MOD V0 SGA	89
CPSZ	镀锌钢和EPDM / Galvanized steel and EPDM	90
CUSZ	镀锌钢和EPDM / Galvanized steel and EPDM	90
CPPA	PA6 MOD V0 SGA	91
CUPA	PA6 MOD V0 SGA	91
PETP	TPE	92
PTTP	TPE	92
NTPA-M	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	93
NTPA-PG	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	93
NTBN-M	铜镀镍 / Brass nickel-plated	94
NTBN-PG	铜镀镍 / Brass nickel-plated	94
NEPA-M	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	95
NEPA-PG	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	95
NEBN-M	铜镀镍 / Brass nickel-plated	96
NEBN-PG	铜镀镍 / Brass nickel-plated	96



FIPLOCK®



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>	工厂 Factory	太阳能 Solar	风能 Wind	铁路 Rail	铁路 Rail	起重机 Crane	船舶 Ship	实验室 Lab	通信 Communication	控制 Control
COPA-S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
COPA-H	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CRPA/CXPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSPA-BJ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BRPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BHPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CPSZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CUSZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CPPA	✓	✓	✓	✓	✓		✓	✓	✓	✓
CUPA	✓	✓	✓	✓	✓		✓	✓	✓	✓
PETP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PTTP	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTPA-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTPA-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTBN-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTBN-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NEPA-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NEPA-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NEBN-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NEBN-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

附件

Accessories

用于FIPLOCK®产品 / for FIPLOCK® product range



产品概述 / Product overview

产品 Product	材料 Material	页码 Page
NRPA-M	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	97
NRPA-PG	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	97
NRBN-M	铜镀镍 / Brass nickel-plated	98
NPPA-M	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	99
NPPA-PG	聚酰胺 (玻璃纤维增强) / Polyamide (glass fiber reinforced)	99
NKPA	PA6 MOD V0 SGA	100
TDPA	PA66	100



FIPLOCK®



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>	工厂	太阳能	风能	铁路	铁路	起重机	船舶	实验室	通信	工业控制
NRPA-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NRPA-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NRBN-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NPPA-M	✓	✓	✓				✓	✓	✓	✓
NPPA-PG	✓	✓	✓				✓	✓	✓	✓
NKPA	✓	✓	✓	✓	✓		✓	✓	✓	✓
TDPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

FIPLOCK® 附件编码规则

Part numbering key FIPLOCK® accessories



1 产品型号 / Material type

- BH** = 半圆瓦型件
Half-shells
BS = 波纹管固定座
System support
CO = 安装固定夹
Mounting clip
CU = U型卡夹
Clamp Omega
CP = 卡夹
Clamp
CR = 固定轨
Mounting rail
CX = 插槽螺母
Slot nuts
NK = 螺纹边缘保护螺母
Screw plug
NP = 螺纹塞
Edge protection nut
NT = 锁紧螺母
Locknut
NE = 螺纹扩展头
Thread enlarger
NR = 螺纹缩减头
Thread reducer
PE = 波纹管边缘保护
Conduit edge protection (FE-KA)
PT = 波纹管末端保护
Conduit termination sleeve (FE-K)
TD = 穿线器
Draw-in tool

2 材料类型 / Material type

- BN** = 铜镀镍 / *Brass nickel plated*
PA = 各种PA6材料 / *various PA6 types*
SZ = 不锈钢 / *Stainless steel*
TP = TPE

3 名义尺寸 / Nominal width (NW)

- 07 – 48 = NW Standard
56 – 170 = NW XL

4 波形 / Profile

- F** = 细波形 / *Fine profile*
C = 粗波形 / *Coarse profile*

5 颜色 / Colour

- B** = 标准黑色 / *Standard black*
G = 标准灰色 / *Standard grey*

工业领域线缆保护

Cable protection for industrial applications



- 广泛适用于各种应用场景
- 符合国际法规要求
- 改造安装解决方案
- 优异的机械性能
- 高动态负载性能
- 多种多样的接头螺纹类型, 满足最高等级IP防护要求
- 丰富的产品类型可供选择

- can be used in a wide range of applications
- compliance with international regulations
- retrofit installation solutions
- excellent mechanical strength
- high dynamic load performance
- broad and deep range of fittings with plastic thread and ONE for all IP solution
- available in various materials



COPA-S

Material: PA6 MOD V0 SGA

固定座
Mounting clip

+120 °C +248 °F
-50 °C -58 °F



- 标准固定座, 适配FIPLOCK®
标准波纹管细波形和粗波形
- 适用于标准的C型固定轨
- 结构简单, 安装安全容易
- 合理的上盖设计, 保证了很高的拔脱力
- standard mounting clip for FIPLOCK® corrugated conduits with fine and coarse profile
- suitable for standard C-mounting rails
- simple and safe installation
- resealable cover connected to the clip provides high pull-out forces



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW	
COPA-S-07B	COPA-S-07G	07	F
COPA-S-10B	COPA-S-10G	10	F
COPA-S-12B	COPA-S-12G	12	F
COPA-S-17B	COPA-S-17G	17	F/C
COPA-S-23B	COPA-S-23G	23	F/C
COPA-S-29B	COPA-S-29G	29	F/C
COPA-S-36B	COPA-S-36G	36	F/C
COPA-S-48B	COPA-S-48G	48	F/C



COPA-H

Material: PA6 MOD V0 SGA

固定座
带底座
*Mounting clip
with base*

+120 °C +248 °F
-50 °C -58 °F



- 标准固定座, 适配FIPLOCK®
标准波纹管细波形和粗波形
- 适用于需要防止扭转的场合
- 合理的上盖设计, 保证了很高的拔脱力
- 底座设计保证了很高的安装强度
- standard mounting clip for FIPLOCK® corrugated conduits with fine and coarse profile
- for anti-twist applications
- resealable cover connected to the clip provides high pull-out forces
- reinforced base plate offers excellent grip



数据表 / Data sheet



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	灰色 / grey	NW	
COPA-H-10B	COPA-H-10G	10	F
COPA-H-12B	COPA-H-12G	12	F
COPA-H-17B	COPA-H-17G	17	F/C
COPA-H-23B	COPA-H-23G	23	F/C
COPA-H-29B	COPA-H-29G	29	F/C
COPA-H-36B	COPA-H-36G	36	F/C
COPA-H-48B	COPA-H-48G	48	F/C



CRPA-CXPA

Material: PA6 MOD V0 SGA

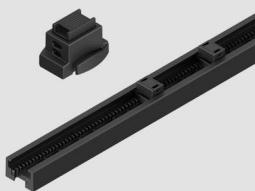
固定轨
带开槽螺母
*Mounting rail
with slot nuts*





固定轨产品号 <i>Part No. mounting rail</i>	
黑色 / black	灰色 / grey
CRPA-00B	CRPA-00G

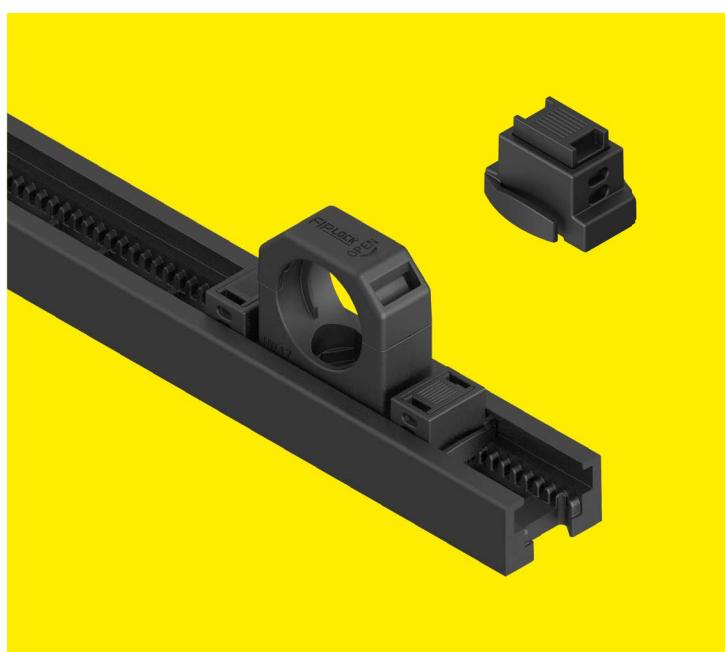
插槽螺母产品号 <i>Part No. slot nut</i>	
黑色 / black	灰色 / grey
CXPA-02B	CXPA-02G



数据表 / Data sheet

CE UL NFPA 130 RoHS REACH HALOGEN FREE

FIPLOCK® CRPA-CXPA + COPA



- C型导轨CRPA使波纹管固定座COPA-S的安装变得非常简单
- 安装插槽螺母CXPA可不使用任何其他工具
- 固定轨可使用标准切割工具按照需求长度裁断使用
- 尾部燕尾槽的设计也使固定轨可无限延长使用
- *C-rail CRPA allows easy mounting of corrugated conduit mounting clips COPA-S*
- *the supplied slot nuts CXPA can be installed without any tools*
- *the rail can be shortened with a standard cutter tool*
- *endless extension thanks to the plug-in system*

BSPA

Material: PA6 MOD V0 SGA

重载固定座
可堆叠
*System support
stackable*

+120 °C +248 °F
-50 °C -58 °F

- 重载可堆叠固定座, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 使用螺丝固定
- 用于重载场合的波纹管固定座
- *stable and stackable system support for FIPLOCK® conduits with fine and coarse profile*
- *considered for firm screw fastening*
- *rugged construction for high loads on installed corrugated conduits*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	NW	
BSPA-17B	17	F/C
BSPA-23B	23	F/C
BSPA-29B	29	F/C
BSPA-36B	36	F/C
BSPA-48B	48	F/C
BSPA-56B	56	C



BSPA-BJ

Material: PA6 MOD V0 SGA

重载固定座
带球结, 可堆叠
*System support
stackable with ball-joint*

+120 °C +248 °F
-50 °C -58 °F

- 重载可堆叠固定座, 适配FIPLOCK® 标准波纹管细波形和粗波形
- 固定座中间的球结提高了波纹管活动的自由度
- 使用螺丝固定
- 用于重载场合的波纹管固定座
- *stable and stackable system support for FIPLOCK® conduits with fine and coarse profile*
- *increased freedom of movement of the corrugated conduits due to a ball-joint insert*
- *considered for firm screw fastening*
- *rugged construction for high loads on installed corrugated conduits*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	NW	
BSPA-12B-BJ17	12	F/C
BSPA-17B-BJ23	17	F/C
BSPA-23B-BJ29	23	F/C
BSPA-29B-BJ36	29	F/C
BSPA-36B-BJ48	36	F/C
BSPA-48B-BJ56	48	F/C

BRPA

Material: PA6 MOD V0 SGA

多孔波纹管固定座
Multiple conduit mounting rail

- 节省空间, 可堆叠安装固定波纹管, 有2, 3, 4孔等类型可用
- 波纹管轴向固定, 单螺栓安装固定座, 固定座可旋转
- space-saving, stackable corrugated conduit mounting support with 2, 3 or 4 conduit ducts
- rotatable or axial fixed



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
BRPA-36B-2	36
BRPA-48B-2	48
BRPA-36B-3	36
BRPA-48B-3	48
BRPA-36B-4	36
BRPA-48B-4	48



BHPA

Material: PA6 MOD V0 SGA

瓦型件
轴向固定
Half-shells
axial fix

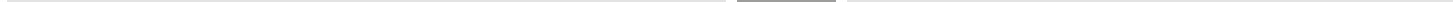
- 用于使用了单独波纹管夹的场合
(用于保护波纹管不被压坏及轴向固定)
- to be applied onto the corrugated conduit if individual conduit clamps are used (to protect from crushing and for axial fixation)



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
BHPA-12B	12
BHPA-17B	17
BHPA-23B	23
BHPA-29B	29
BHPA-36B	36
BHPA-48B	48



CPSZ

Material: 镀锌钢和EPDM
Galvanized steel and EPDM

管夹
带单耳

*Tube clamp
with lug*

+120 °C
-50 °C

+248 °F
-58 °F



- 管夹安装简单, 适用于静态安装FIPLOCK® 标准波纹管细波形和粗波形
- 带一个固定耳
- *tube clamp for simple installation of statically installed FIPLOCK® conduits with fine and coarse profile*
- *with one fixation lug*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	NW	
CPSZ-07M4B-EP	07	F
CPSZ-07M6B-EP	07	F
CPSZ-10M4B-EP	10	F
CPSZ-10M6B-EP	10	F
CPSZ-12M4B-EP	12	F
CPSZ-12M6B-EP	12	F/C
CPSZ-17M5B-EP	17	F/C
CPSZ-17M6B-EP	17	F/C
CPSZ-23M5B-EP	23	F/C
CPSZ-23M6B-EP	23	F/C
CPSZ-23M8B-EP	23	F/C
CPSZ-29M6B-EP	29	F/C
CPSZ-36M6B-EP	36	F/C
CPSZ-36M8B-EP	36	F/C
CPSZ-48M6B-EP	48	F/C

CUSZ

Material: 镀锌钢和EPDM
Galvanized steel and EPDM

管夹
带双耳

*Tube clamp
with double lug*

+120 °C
-50 °C

+248 °F
-58 °F



- 管夹安装简单, 适用于静态安装FIPLOCK® 标准波纹管细波形和粗波形
- 带两个固定耳
- *tube clamp for simple installation of statically installed FIPLOCK® conduits with fine and coarse profile*
- *with two fixation lug for anti-twist application*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波形 <i>Profile</i>
黑色 / black	NW	
CUSZ-48M6B-EP	48	F/C
CUSZ-56M8B-EP	56	F/C
CUSZ-70M8B-EP	70	F/C
CUSZ-95M8B-EP	95	F/C
CUSZ-125M8B-EP	125	F/C



CPPA

Material: PA6 MOD V0 SGA

波纹管管夹
带单耳, 固定筋

*Corrugated conduit clamp
with lug, fixing rib*

+120 °C
-50 °C

+248 °F
-58 °F



数据表 / Data sheet

- 波纹管管夹, 带单耳固定
- 适用于FIPLOCK® 标准波纹管细波形和粗波形, 管径NW07–29
- 全塑料制成, 无锈蚀风险
- *conduit clamp with one fixation lug*
- *to fix FIPLOCK® conduits in fine and coarse profile for dimension NW07–29*
- *full plastic – no corrosion ability*



NFPA
130



RoHS
REACH



产品号 <i>Part No.</i>		螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	
CPPA-07M4B	CPPA-07M4G	M4
CPPA-10M4B	CPPA-10M4G	M4
CPPA-12M4B	CPPA-12M4G	M4
CPPA-17M5B	CPPA-17M5G	M5
CPPA-23M5B	CPPA-23M5G	M5
CPPA-29M6B	CPPA-29M6G	M6

CUPA

Material: PA6 MOD V0 SGA

波纹管管夹
带双耳, 固定筋

*Corrugated conduit clamp
with double lug, fixing rib*

+120 °C
-50 °C

+248 °F
-58 °F



数据表 / Data sheet

- 波纹管管夹, 带双耳固定
- 适用于FIPLOCK® 标准波纹管细波形和粗波形, 管径NW23–95
- 全塑料制成, 无锈蚀风险
- *conduit clamp with double lug*
- *to fix FIPLOCK® conduits in fine and coarse profile for dimension NW23–95*
- *full plastic – no corrosion ability*



NFPA
130



RoHS
REACH



产品号 <i>Part No.</i>		螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	
CUPA-23M5B	CUPA-23M5G	M5
CUPA-29M6B	CUPA-29M6G	M6
CUPA-36M6B	CUPA-36M6G	M6
CUPA-48M6B	CUPA-48M6G	M6
CUPA-56M8B	CUPA-56M8G	M8
CUPA-70M8B	CUPA-70M8G	M8
CUPA-95M8B	CUPA-95M8G	M8

PETP

Material: TPE

波纹管边缘保护

Conduit edge protection

+120 °C
-40 °C



+248 °F
-40 °F



- 弹性波纹管边缘保护套，适配FIPLOCK® 标准波纹管细波形和粗波形
- 保护线缆束震动时在管子出口处不被磨损
- elastic conduit edge protection for FIPLOCK® corrugated conduits in fine and coarse profile
- to protect sensitive cable and wire insulation at the conduit exit under vibrations



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
PETP-07B	07
PETP-10B	10
PETP-12B	12
PETP-17B	17
PETP-23B	23
PETP-29B	29
PETP-36B	36
PETP-48B	48
PETP-56B	56
PETP-70B	70

PTTP

Material: TPE

波纹管末端防护

Conduit termination sleeve

+120 °C
-40 °C



+248 °F
-40 °F



- 弹性波纹管末端防护套，适配FIPLOCK® 标准波纹管细波形和粗波形
- 防护污垢和灰尘从波纹管末端进入
- 可以裁切以适应电线电缆的尺寸
- elastic conduit termination sleeve for FIPLOCK® corrugated conduits in fine and coarse profile
- protects from ingress of dirt and dust at the conduit end
- to be cut to fit tightly with applied cables or cable bundles



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
PTTP-04B	04
PTTP-07B	07
PTTP-10B	10
PTTP-12B	12
PTTP-17B	17
PTTP-23B	23
PTTP-29B	29
PTTP-36B	36
PTTP-48B	48

NTPA-M

Material: 尼龙玻纤增强
Polyamide glass fiber reinforced

螺母
六角, 尼龙, 公制

Locknut
hexagon, polyamide, metric

+100 °C
-40 °C

+212 °F
-40 °F



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey
NTPA-M12B	NTPA-M12G
NTPA-M16B	NTPA-M16G
NTPA-M20B	NTPA-M20G
NTPA-M25B	NTPA-M25G
NTPA-M32B	NTPA-M32G
NTPA-M40B	NTPA-M40G
NTPA-M50B	NTPA-M50G
NTPA-M63B	NTPA-M63G

NTPA-PG

Material: 尼龙玻纤增强
Polyamide glass fiber reinforced

螺母
六角, 尼龙, PG制

Locknut
hexagon, polyamide, PG

+100 °C
-40 °C

+212 °F
-40 °F



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey
NTPA-P07B	NTPA-P07G
NTPA-P09B	NTPA-P09G
NTPA-P11B	NTPA-P11G
NTPA-P13B	NTPA-P13G
NTPA-P16B	NTPA-P16G
NTPA-P21B	NTPA-P21G
NTPA-P29B	NTPA-P29G
NTPA-P36B	NTPA-P36G
NTPA-P42B	NTPA-P42G
NTPA-P48B	NTPA-P48G

NTBN-M

Material: 铜镀镍
Brass nickel-plated

螺母
六角, 铜镀镍, 公制

Locknut
hexagon, brass nickel-plated, metric

+200 °C
-60 °C

+392 °F
-76 °F



数据表 / Data sheet



产品号
Part No.

螺纹尺寸
Thread size

NTBN-M12	M12x1,5
NTBN-M16	M16x1,5
NTBN-M20	M20x1,5
NTBN-M25	M25x1,5
NTBN-M32	M32x1,5
NTBN-M40	M40x1,5
NTBN-M50	M50x1,5
NTBN-M63	M63x1,5

NTBN-PG

Material: 铜镀镍
Brass nickel-plated

螺母
六角, 铜镀镍, PG

Locknut
hexagon, brass nickel-plated, PG

+200 °C
-60 °C

+392 °F
-76 °F



数据表 / Data sheet



产品号
Part No.

螺纹尺寸
Thread size

NTBN-P07	PG07
NTBN-P09	PG09
NTBN-P11	PG11
NTBN-P13	PG13
NTBN-P16	PG16
NTBN-P21	PG21
NTBN-P29	PG29
NTBN-P36	PG36
NTBN-P42	PG42
NTBN-P48	PG48

NEPA-M

Material: 尼龙玻纤增强
Polyamide glass fiber reinforced

螺纹扩展头
 六角, 塑料, 公制

Thread enlarger
hexagon, plastic, metric

+100 °C
 -40 °C

+212 °F
 -40 °F



- 塑料公制螺纹扩展头, 适用扳手
- 适配FIPLOCK® ONE 公制螺纹接头
- thread enlargers plastic with metric threads and hexagon for flat wrench*
- suitable for FIPLOCK® ONE fittings with metric threads*



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
灰色 / grey		
NEPA-M12M16G-H	M12	M16
NEPA-M16M20G-H	M16	M20
NEPA-M20M25G-H	M20	M25
NEPA-M25M32G-H	M25	M32
NEPA-M32M40G-H	M32	M40
NEPA-M40M50G-H	M40	M50
NEPA-M50M63G-H	M50	M63

NEPA-PG

Material: 尼龙玻纤增强
Polyamide glass fiber reinforced

螺纹扩展头
 塑料, PG制

Thread enlarger
PG, plastic

+100 °C
 -40 °C

+212 °F
 -40 °F



- 塑料PG制螺纹扩展头, 适用扳手
- 适配FIPLOCK® ONE PG制螺纹接头
- thread enlargers plastic with PC threads*
- suitable for FIPLOCK® ONE fittings with PG threads*



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
灰色 / grey		
NEPA-P07P09G-H	PG7	PG9
NEPA-P09P11G-H	PG9	PG11
NEPA-P11P13G-H	PG11	PG13
NEPA-P13P16G-H	PG13	PG16
NEPA-P16P21G-H	PG16	PG21
NEPA-P21P29G-H	PG21	PG29
NEPA-P29P36G-H	PG29	PG36

NEBN-M

Material: 铜镀镍
Brass nickel-plated

螺纹扩展头
圆形, 铜镀镍, 公制
Thread enlarger
round, brass nickel-plated, metric

+200 °C
-60 °C

+392 °F
-76 °F



- 公制螺纹扩展头
- 适配FIPLOCK® ONE 公制螺纹接头
- *thread enlargers with metric threads*
- *suitable for FIPLOCK® ONE fittings with metric threads*



数据表 / Data sheet



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
NEBN-M12M16S	M12x1,5	M16x1,5
NEBN-M16M20S	M16x1,5	M20x1,5
NEBN-M20M25S	M20x1,5	M25x1,5
NEBN-M25M32S	M25x1,5	M32x1,5
NEBN-M32M40S	M32x1,5	M40x1,5
NEBN-M40M50S	M40x1,5	M50x1,5
NEBN-M50M63S	M50x1,5	M63x1,5

NEBN-PG

Material: 铜镀镍
Brass nickel-plated

螺纹扩展头
圆形, 铜镀镍, PG制
Thread enlarger
round, brass nickel-plated, PG

+100 °C
-40 °C

+212 °F
-40 °F



- PG制螺纹扩展头
- 适配FIPLOCK® ONE PG制螺纹接头
- *thread enlargers with PG threads*
- *suitable for FIPLOCK® ONE fittings with metric threads*



数据表 / Data sheet



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
NEBN-P07/P09S	PG7	PG9
NEBN-P09/P11S	PG9	PG11
NEBN-P09/P13S	PG9	PG13
NEBN-P11/P13S	PG11	PG13
NEBN-P11/P16S	PG11	PG16
NEBN-P13/P16S	PG13	PG16
NEBN-P13/P21S	PG13	PG21
NEBN-P16/P21S	PG16	PG21
NEBN-P16/P29S	PG16	PG29
NEBN-P21/P29S	PG21	PG29
NEBN-P29/P36S	PG29	PG36
NEBN-P36/P42S	PG36	PG42
NEBN-P36/P48S	PG48	PG48

NRPA-M

Material: 尼龙玻璃纤维增强
Polyamide glass fiber reinforced

螺纹缩减头
 六角, 塑料, 公制

Thread reducer
hexagon, plastic, metric

+100 °C
 -40 °C

+212 °F
 -40 °F



- 塑料公制螺纹六角缩减头, 适用平板手
- 适配FIPLOCK® ONE 公制螺纹接头



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
灰色 / grey		
NRPA-M16M12G-H	M16	M12
NRPA-M20M12G-H	M20	M12
NRPA-M20M16G-H	M20	M16
NRPA-M25M16G-H	M25	M16
NRPA-M25M20G-H	M25	M20
NRPA-M32M20G-H	M32	M20
NRPA-M32M25G-H	M32	M25
NRPA-M40M25G-H	M40	M25
NRPA-M40M32G-H	M40	M32
NRPA-M50M32G-H	M50	M32
NRPA-M50M40G-H	M50	M40
NRPA-M63M50G-H	M63	M50

NRPA-PG

Material: 尼龙玻璃纤维增强
Polyamide glass fiber reinforced

螺纹缩减头
 PG制, 塑料

Thread reducer
PG, plastic

+100 °C
 -40 °C

+212 °F
 -40 °F



- 塑料PG制螺纹六角缩减头, 适用平板手
- 适配FIPLOCK® ONE PG制螺纹接头



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
灰色 / grey		
NRPA-P09P07G-H	PG09	PG07
NRPA-P11P07G-H	PG11	PG07
NRPA-P11P09G-H	PG11	PG09
NRPA-P13P11G-H	PG13,5	PG11
NRPA-P16P09G-H	PG16	PG09
NRPA-P16P13G-H	PG16	PG13,5
NRPA-P21P13G-H	PG21	PG13,5
NRPA-P29P16G-H	PG29	PG16
NRPA-P36P21G-H	PG36	PG21
NRPA-P36P29G-H	PG36	PG29
NRPA-P48P29G-H	PG48	PG29
NRPA-P48P36G-H	PG48	PG36

NRBN-M

Material: 铜镀镍
Brass nickel-plated

螺纹缩减头
六角, 铜镀镍, 公制
Thread reducer
hexagon, brass nickel-plated, metric

+200 °C  +392 °F
-60 °C -76 °F

- 公制螺纹六角缩减头, 适用平板手
- 适配FIPLOCK® ONE 公制螺纹接头
- *thread reducer with metric threads and hexagon for flat wrench*
- *suitable for FIPLOCK® ONE fittings with metric threads*



数据表 / Data sheet



产品号 <i>Part No.</i>	外螺纹 <i>Outer thread</i>	内螺纹 <i>Inner thread</i>
灰色 / grey		
NRBN-M16/M12S-H	M16×1,5	M12×1,5
NRBN-M20/M16S-H	M20×1,5	M16×1,5
NRBN-M25/M16S-H	M25×1,5	M16×1,5
NRBN-M25/M20S-H	M25×1,5	M20×1,5
NRBN-M32/M20S-H	M32×1,5	M20×1,5
NRBN-M32/M25S-H	M32×1,5	M25×1,5
NRBN-M40/M25S-H	M40×1,5	M25×1,5
NRBN-M40/M32S-H	M40×1,5	M32×1,5
NRBN-M50/M40S-H	M50×1,5	M40×1,5
NRBN-M63/M50S-H	M63×1,5	M50×1,5

NPPA-M

Material: 尼龙玻纤增强
Polyamide glass fiber reinforced

螺纹塞
公制

*Screw plug
metric*

+100 °C
-40 °C

+212 °F
-40 °F



- 螺纹塞
- 用于封闭公制螺纹孔的塞子
- *screw plug nut*
- *for metric thread holes which need to be closed*



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	螺纹尺寸 <i>Thread size</i>
灰色 / grey	NW
NPPA-M12G	M12x1,5
NPPA-M16G	M16x1,5
NPPA-M20G	M20x1,5
NPPA-M25G	M25x1,5
NPPA-M32G	M32x1,5
NPPA-M40G	M40x1,5
NPPA-M50G	M50x1,5
NPPA-M63G	M63x1,5

NPPA-PG

Material: 尼龙玻纤增强
Polyamide glass fiber reinforced

螺纹塞
PG

*Screw plug
PG*

+100 °C
-40 °C

+212 °F
-40 °F



- 螺纹塞
- 用于封闭PG制螺纹孔的塞子
- *screw plug nut*
- *for PG thread holes which need to be closed*



数据表 / Data sheet



HALOGEN
FREE



产品号 <i>Part No.</i>	螺纹尺寸 <i>Thread size</i>
灰色 / grey	NW
NPPA-P07G	PG07
NPPA-P09G	PG09
NPPA-P11G	PG11
NPPA-P13G	PG13,5
NPPA-P16G	PG16
NPPA-P21G	PG21
NPPA-P29G	PG29
NPPA-P36G	PG36
NPPA-P48G	PG48

NKPA

Material: PA6 MOD V0 SGA

螺纹边缘防护螺母
Edge protection nut





- 螺纹边缘防护螺母, 适用于FIPLOCK® ONE接头
- 在高震动场合或在线缆弯曲半径较小时保护线缆绝缘层不被磨损

- edge protection nut metric for FIPLOCK® ONE fittings
- offers protection at heavy vibrations regarding abrasion of conductor insulations as well as for application of wires with tight bend-off radius



[数据表 / Data sheet](#)

CE
UL Listed
ASME
NFPA 130
RoHS
REACH
HALOGEN FREE



产品号 <i>Part No.</i>		螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	
NKPA-M16B	NKPA-M16G	M16
NKPA-M20B	NKPA-M20G	M20
NKPA-M25B	NKPA-M25G	M25
NKPA-M32B	NKPA-M32G	M32
NKPA-M40B	NKPA-M40G	M40

TDPA

Material: PA66

穿线器
孔型/手柄型
Draw-in-tool
with hole / grip





- 穿线器用来辅助将线缆安装进开口式 FIPLOCK® 波纹管
- draw-in tool for cables and conductors into slit FIPLOCK® corrugated conduits

- draw-in tool for cables and conductors into slit FIPLOCK® corrugated conduits



[数据表 / Data sheet](#)

CE
RoHS
REACH
HALOGEN FREE

产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	类型 <i>Model</i>
黑色 / black	NW		
TDPA-04B-01	4,5 – 07	孔型 / with hole	
TDPA-04B-02	4,5 – 07	手柄型 / with grip	
TDPA-07B-01	07 – 29	孔型 / with hole	
TDPA-07B-02	07 – 29	手柄型 / with grip	

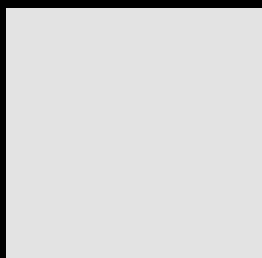
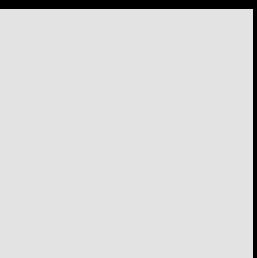
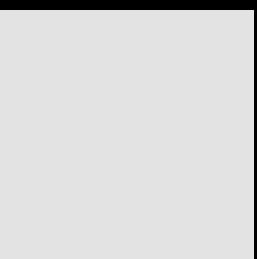
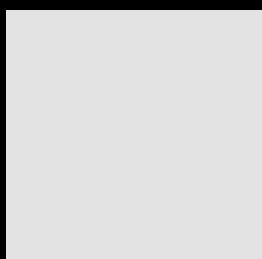
100 | FIPLOCK®

无故障操作

Trouble-free processes

敏感电缆和数据线的电磁屏蔽

Electromagnetic shielding of sensitive cables and data lines



- 编织屏蔽配合螺纹连接提供了完美的屏蔽效果
- 优异的电荷迁移性能提供了更高的屏蔽效率及更低的阻抗
- 适用于动态及静态应用
- FIPSYSTEMS® 的模块化设计使产品线具备更高的灵活性
满足更广泛的应用场合要求
- 与 FIPLOCK® ONE 连接实现 (IP69) 防护等级

- *ideal shielding due to braided shielding and matching screw connection*
- *optimum electrical transition for high shielding effectiveness with low transfer impedance*
- *suitable for dynamic and also static movements*
- *FIPSYSTEMS® modular system enables high flexibility and a wide range of applications*
- *with proven FIPLOCK® ONE connection (IP69)*

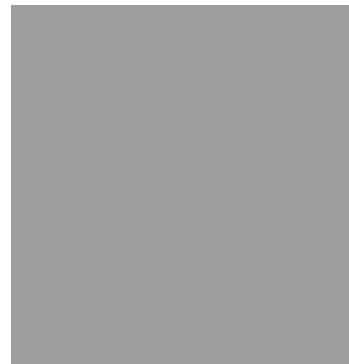
更多信息, 可下载 FIPSHIELD® 宣传页查看:

For more information download our FIPSHIELD® flyer:



EMC电磁屏蔽解决方案

EMV shielding solutions



产品概述 / Product overview

产品 <i>Product</i>	材料 <i>Material</i>	螺纹类型 <i>Thread version</i>	页码 <i>Page</i>
BCUTP	铜镀锡 / <i>Tin-plated copper</i>	—	106
EZPA-C-MMK	PA6 MOD BS SGA	金属短螺纹 / <i>Metal short</i>	107
EZPA-D-MMK	PA6 MOD BS SGA	金属短螺纹 / <i>Metal short</i>	107
EZPA-D-PGM	PA6 MOD BS SGA	金属短螺纹 / <i>Metal short</i>	108
EZPA-C-NPTM	PA6 MOD BS SGA	金属短螺纹 / <i>Metal short</i>	109
EZPA-D-NPTM	PA6 MOD BS SGA	金属短螺纹 / <i>Metal short</i>	109
ENTBN-M-C	铜镀镍 / <i>Nickel-plated brass</i>	—	110
NTBN-M-EMV	铜镀镍 / <i>Nickel-plated brass</i>	—	111
NTBN-PG-EMV	铜镀镍 / <i>Nickel-plated brass</i>	—	111



FIP SHIELD®



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>	工厂 Factory	太阳能 Solar	风能 Wind	铁路 Rail	轨道 Track	起重机 Crane	船舶 Ship	实验室 Lab	无线电 Radio	控制 Control
BCUTP	✓	✓	✓			✓	✓	✓		✓
EZPA-C-MMK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EZPA-D-MMK	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EZPA-D-PGM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EZPA-C-NPTM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
EZPA-D-NPTM	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
ENTBN-M-C	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTBN-M-EMV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
NTBN-PG-EMV	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

FIPSHIELD® 屏蔽产品编码规则

Part numbering key FIPSHIELD® shielding solutions

1 2 3 4 5 6
B **CUTP** - **03** **S** **90** . **100**

1 屏蔽解决方案 / *Shielding solution*

B = 编制套管
Braided hose

2 材料类型 / *Material type*

CUTP = 铜镀锡
tin-plated copper

3 名义尺寸 / *Nominal width (NW)*

07-50 = NW Standard

4 颜色 / *Colour*

S = 银色 / *silver*

5 覆盖率 / *Coverage*

90-95%

6 包装单元

Packing unit

1 2 3 4 5 6 7 8 9
E Z **P A** - **1 2** **M** **2 0** **M** **B** . **C** **L 1**

1 产品类型 / Material type

EZ = EMC 直型电磁屏蔽锁紧电缆接头
EMC fitting strain relief, straight

ENT = EMC 锁紧螺母
EMC locknut

NT = 锁紧螺母
Locknut

2 材料类型 / Material type

BN = 铜镀镍
Brass nickel plated

PA = 各种尼龙6材料
various PA6 types

3 名义尺寸 / Nominal width (NW)

10-48 = NW Standard

4 螺纹类型 / Thread type

M = 公制/ metric

P = PG

N = NPT

5 螺纹尺寸 / Thread size

见第39页螺纹表

see thread table on page 39

6 螺纹材料 / Thread material

P = 塑料 / Plastic
M = 金属 / Metal

7 颜色 / Colour

B = 标准黑色
Standard black
G = 标准灰色
Standard grey

8 EMC接触类型 EMC contact

C = 铜刷式 / Brush
D = 弹片式 / Spring

9 螺纹长度 Thread length

BCUTP

Material: 铜镀锡
Tin-plated copper

EMC电磁屏蔽套管
EMC screening braid

■ 为线缆线束提供了非常有效的电磁兼容性屏蔽保护 (EMC)
 ■ 电磁屏蔽覆盖率90 – 95% , 特别适用于工业设备及工厂工程领域的电磁屏蔽要求
 ■ 屏蔽效果可达75 dB , 100MHz

■ offers effective screening protection of cables and wires regarding electromagnetic compatibility (EMC)
 ■ offers a coverage of 90 – 95% and is especially suited for very good screening effectiveness for industrial equipment and plant engineering
 ■ screening effectiveness up to 75 dB at 100MHz





数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	应用范围 <i>Range of application</i>	
		D _{min.} in mm	D _{max.} in mm
银色 / silver			
BCUTP-03S90.100	03	2,0	3,5
BCUTP-04S90.100	04	3,0	5,0
BCUTP-06S90.100	06	4,5	7,0
BCUTP-10S90.100	10	7,0	12,0
BCUTP-12S90.100	12	11,0	13,0
BCUTP-15S90.100	15	13,0	18,0
BCUTP-20S95.50	20	16,0	38,0
BCUTP-25S95.50	25	22,0	38,0
BCUTP-30S95.50	30	27,0	40,0
BCUTP-35S95.50	35	30,0	50,0
BCUTP-40S95.50	40	35,0	60,0
BCUTP-50S95.25	50*	45,0	65,0

* 产品尺寸NW50 内部不带PVC 定型管.
Size 50 is supplied without PVC former tube.

EZPA-C-MMK

Material: PA6 MOD V0 SGA

直型锁紧电缆接头
公制, 金属短螺纹, EMC铜刷式

*Fitting strain relief, straight
metric, metal thread, short, EMC brush*

+120 °C
-50 °C

+248 °F
-58 °F



数据表 / Data sheet

- EMC铜刷式金属短螺纹电缆锁紧接头
- 确保与电缆外皮的屏蔽编织层的有效电气接触
- 自熄, 耐大多数常见化学品
- 优异的耐UV性能
- fitting strain relief straight with short metric metal thread and EMC spring containing contact brush
- enables proper electrical contact with screening braids
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹 <i>Thread</i>
黑色 / black	NW	mm
EZPA-12M20MB-CL1	12	M20x1,5
EZPA-17M20MB-CL1	17	M20x1,5
EZPA-17M25MB-CL1	17	M25x1,5
EZPA-23M25MB-CL1	23	M25x1,5
EZPA-23M32MB-CL1	23	M32x1,5
EZPA-29M32MB-CL1	29	M32x1,5
EZPA-29M40MB-CL1	29	M40x1,5
EZPA-36M40MB-CL1	36	M40x1,5
EZPA-36M50MB-CL1	36	M50x1,5
EZPA-48M50MB-CL1	48	M50x1,5
EZPA-48M63MB-CL2	48	M63x1,5

EZPA-D-MMK

Material: PA6 MOD V0 SGA

直型锁紧电缆接头
公制, 金属短螺纹, EMC弹片式

*Fitting strain relief, straight
metric, metal thread, short, EMC spring*

+120 °C
-50 °C

+248 °F
-58 °F



数据表 / Data sheet

- EMC弹片式公制金属短螺纹电缆锁紧接头
- 确保与电缆外皮屏蔽编织层的有效电气接触
- 自熄, 耐大多数常见化学品
- 优异的耐UV性能
- fitting strain relief straight with short metric metal thread and EMC spring containing spring contacts
- enables proper electrical contact with screening braids
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹 <i>Thread</i>
黑色 / black	NW	mm
EZPA-10M12MB-DL1	10	12x1,5
EZPA-10M16MB-DL1	10	16x1,5
EZPA-12M16MB-DL1	12	16x1,5
EZPA-12M20MB-DL1	12	20x1,5
EZPA-17M20MB-DL1	17	20x1,5
EZPA-17M25MB-DL1	17	25x1,5
EZPA-23M25MB-DL1	23	25x1,5
EZPA-23M32MB-DL1	23	32x1,5
EZPA-29M32MB-DL1	29	32x1,5
EZPA-29M40MB-DL1	29	40x1,5
EZPA-36M40MB-DL1	36	40x1,5
EZPA-36M50MB-DL1	36	50x1,5
EZPA-48M50MB-DL1	48	50x1,5

EZPA-D-PGM

Material: PA6 MOD V0 SGA

直型锁紧电缆接头

PG, 金属螺纹, EMC弹片式

Fitting strain relief straight

PG, metal thread, EMC spring

+120 °C
-50 °C

+248 °F
-58 °F



数据表 / Data sheet

- EMC弹片式PG制金属螺纹电缆锁紧接头
- 确保与电缆外皮的屏蔽编织层的有效电气接触
- 自熄, 耐大多数常见化学品
- 优异的耐UV性能
- *fitting strain relief straight with PG metal thread and EMC spring containing spring contacts*
- *enables proper electrical contact with screening braids*
- *self-extinguishing and resistant against most chemical media commonly used*
- *excellent UV-resistance*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹 <i>Thread</i>
黑色 / black	NW	mm
EZPA-10P09MB-DL1	10	PG9
EZPA-10P11MB-DL1	10	PG11
EZPA-12P11MB-DL1	12	PG11
EZPA-12P13MB-DL1	12	PG13,5
EZPA-17P16MB-DL1	17	PG16
EZPA-23P21MB-DL1	23	PG21
EZPA-29P29MB-DL1	29	PG29
EZPA-36P36MB-DL1	36	PG36

EZPA-C-NPTM

Material: PA6 MOD V0 SGA

直型锁紧电缆接头
NPT, 金属螺纹, EMC铜刷式
*Fitting strain relief, straight
NPT, metal thread, EMC brush*

- EMC铜刷式NPT制金属螺纹电缆锁紧接头
- 确保与电缆外皮的屏蔽编织层的有效电气接触
- 自熄, 耐大多数常见化学品
- 优异的耐UV性能
- fitting strain relief straight with NPT metal thread and EMC spring containing contact brush
- enables proper electrical contact with screening braids
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance




数据表 / Data sheet

产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹 <i>Thread</i>
黑色 / black	NW	mm
EZPA-17N04MB-CL1	17	3/4"
EZPA-23N04MB-CL1	23	3/4"
EZPA-23N06MB-CL1	23	1"
EZPA-29N06MB-CL1	29	1"
EZPA-29N07MB-CL1	29	1-1/4"
EZPA-36N07MB-CL1	36	1-1/4"
EZPA-36N08MB-CL1	36	1-1/2"
EZPA-48N08MB-CL1	48	1-1/2"
EZPA-48N09MB-CL1	48	2"

EZPA-D-NPTM

Material: PA6 MOD V0 SGA

直型锁紧电缆接头
NPT, 金属螺纹, EMC弹片式
*Fitting strain relief, straight
NPT, metal thread, EMC spring*

- EMC弹片式NPT制金属螺纹电缆锁紧接头
- 确保与电缆外皮的屏蔽编织层的有效电气接触
- 自熄, 耐大多数常见化学品
- 优异的耐UV性能
- fitting strain relief straight with metric NPT thread and EMC spring containing spring contacts
- enables proper electrical contact with screening braids
- self-extinguishing and resistant against most chemical media commonly used
- excellent UV-resistance




数据表 / Data sheet

产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹 <i>Thread</i>
黑色 / black	NW	mm
EZPA-10N01MB-DL1	10	3/8"
EZPA-12N01MB-DL1	12	3/8"
EZPA-12N02MB-DL1	12	1/2"
EZPA-17N02MB-DL1	17	1/2"
EZPA-17N04MB-DL1	17	3/4"
EZPA-23N04MB-DL1	23	3/4"
EZPA-23N06MB-DL1	23	1"
EZPA-29N06MB-DL1	29	1"
EZPA-29N07MB-DL1	29	1-1/4"
EZPA-36N07MB-DL1	36	1-1/4"
EZPA-36N08MB-DL1	36	1-1/2"
EZPA-48N08MB-DL1	48	1-1/2"

ENTBN-M-C

+200 °C
-60 °C +392 °F
-76 °F

Material: 铜镀镍, 铜刷触点

Brass nickel-plated, copper contact brush

锁紧螺母

六角头, 铜镀镍, 公制, EMC铜刷式

Locknut

hexagon, brass nickel-plated, metric, EMC brush

- 集成了可用于EMC电磁屏蔽铜刷的六角锁紧螺母
- 产品端部带尖刺, 在锁紧螺母的时候可划破安装箱体表面的绝缘层或喷漆从而确保足够的接触。
- 同样适用于FIPSHIELD®塑料螺纹接头
- metric hexagon lock nut with integrated EMC shield contact
- ensures the necessary electrical contact even if the metal surface has an insulating anodized, painted or powder-coated layer
- suitable with FIPSHIELD® plastic thread fittings



数据表 / Data sheet



产品号 <i>Part No.</i>	螺纹 <i>Thread</i> mm
ENTBN-M12-C	M12x1,5
ENTBN-M16-C	M16x1,5
ENTBN-M20-C	M20x1,5
ENTBN-M25-C	M25x1,5
ENTBN-M32-C	M32x1,5
ENTBN-M40-C	M40x1,5
ENTBN-M50-C	M50x1,5
ENTBN-M63-C	M63x1,5

NTBN-M-EMV

Material: 铜镀镍
Brass nickel-plated

锁紧螺母
六角头, 铜镀镍, 公制, EMC

Locknut
hexagon, brass nickel-plated, metric, EMC

+200 °C
-60 °C

+392 °F
-76 °F



数据表 / Data sheet



产品号 <i>Part No.</i>	螺纹 <i>Thread</i> mm
NTBN-M12-EMV	M12x1,5
NTBN-M16-EMV	M16x1,5
NTBN-M20-EMV	M20x1,5
NTBN-M25-EMV	M25x1,5
NTBN-M32-EMV	M32x1,5
NTBN-M40-EMV	M40x1,5
NTBN-M50-EMV	M50x1,5
NTBN-M63-EMV	M63x1,5

NTBN-PG-EMV

Material: 铜镀镍
Brass nickel-plated

锁紧螺母
六角头, 铜镀镍, PG制, EMC

Locknut
hexagon, brass nickel-plated, PG, EMC

+200 °C
-60 °C

+392 °F
-76 °F



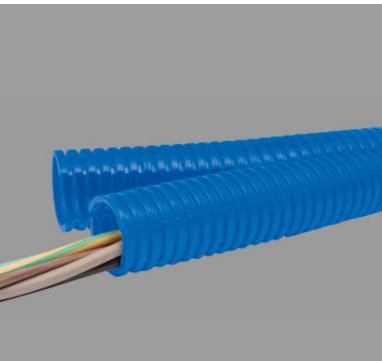
数据表 / Data sheet



产品号 <i>Part No.</i>	螺纹 <i>Thread</i>
NTBN-PG07-EMV	PG07
NTBN-PG09-EMV	PG09
NTBN-PG11-EMV	PG11
NTBN-PG13-EMV	PG13
NTBN-PG16-EMV	PG16
NTBN-PG21-EMV	PG21
NTBN-PG29-EMV	PG29
NTBN-PG36-EMV	PG36

可分型波纹管

Divisible corrugated conduits

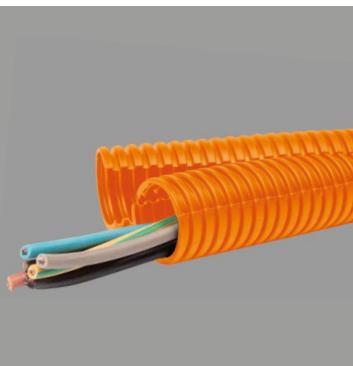


产品概述 / Product overview

产品 Product	颜色 Colour	材料 Material	波型 Profile	附件 Accessories	页码 Page
2PPS	黑色 / <i>black</i>	PP MOD BS	M	✓	118
2PPS-U	黑色 / <i>black</i>	PP MOD BS UV	M	✓	118
2PAN	黑色 / <i>black</i>	PA6 MOD	M	✓	119
2PEN	黑色 / <i>black</i>	PE LD/HD	M	✓	119
2PAS	黑色 / <i>black</i>	PA6 MOD BS	M	✓	120
2PAF	黑色 / <i>black</i>	PA6 MOD V0	M	✓	120
2PDS	黑色 / <i>black</i>	PA12 MOD BS	M	✓	121
2ETS	黑色 / <i>black</i>	ETFE	M	✓	121
1PPS-U	黑色 / <i>black</i>	PP MOD BS UV	M		122
1PAS	黑色 / <i>black</i>	PA6 MOD BS	M		122
2PPS-O	橙色 / <i>orange</i>	PP MOD BS	M	✓	123
2PAS-O	橙色 / <i>orange</i>	PA6 MOD BS	M	✓	123
2PDS-O	橙色 / <i>orange</i>	PA12 MOD BS	M	✓	124
2PAF-A	蓝色 / <i>blue</i>	PA6 MOD V0	M	✓	125
2PDS-A	蓝色 / <i>blue</i>	PA12 MOD BS	M	✓	125



FIPSPLIT®



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>	工厂 Factory	太阳能 Solar	风能 Wind	铁路 Rail	轨道 Track	起重机 Crane	船舶 Ship	实验室 Lab	无线电 Radio	控制 Control
2PPS	✓		✓				✓	✓	✓	✓
2PPS-U	✓	✓	✓		✓		✓	✓	✓	✓
2PAN	✓		✓				✓	✓		✓
2PEN	✓							✓		✓
2PAS	✓		✓	✓			✓	✓		✓
2PAF	✓			✓			✓			✓
2PDS	✓	✓		✓	✓	✓	✓			✓
2ETS	✓							✓		✓
1PPS-U	✓	✓	✓		✓		✓	✓	✓	✓
1PAS	✓		✓	✓			✓	✓		✓
2PPS-0	✓		✓					✓		✓
2PAS-0	✓		✓	✓			✓		✓	✓
2PDS-0	✓	✓		✓	✓	✓	✓			✓
2PAF-A				✓						✓
2PDS-A	✓	✓		✓		✓	✓	✓	✓	✓

FIPSPLIT® 波纹管编码规则

Part numbering key FIPSPLIT®corrugated conduits



1 类型 / Model

2 = FIPSPLIT® 标准壁厚
FIPSPLIT® standard weight

1 = FIPSPLIT® Lockflex

2 材料类型/ Material type

PAN = PA6 MOD

PAS = PA6 MOD BS

PAF = PA6 MOD V0

PEN = PE LD/HD

PDS = PA12 MOD BS

PPS = PP MOD BS

PPS-U = PP MOD BS UV

ETS = ETFE

3 波型 / Profile

M = 可分型波纹管
Intermediate profile

4 名义尺寸 / Nominal width (NW)

07 – 100 = NW Standard

17M20 = Thread-flex NW17 / 螺纹 M20
NW17/Thread M20

5 颜色 / Colour

B = 标准黑色
Standard black

G = 标准灰色
Standard grey

U = UV-黑色
UV black

02 = 橙色色号 RAL2003
Orange similar to RAL2003

A3 = 蓝色色号 RAL5015
Blue similar to RAL5015

6 包装单元 (PU) / Packing units (PU)

50 = 每卷长度或每包数量
Coil length or length of pieces

A = 特殊包装单元
Individual packing units

Rohrprofile Profiles

FIPSPLIT®

M 可分型波纹管 / M intermediate profile

应用场景:

FIPSPLIT® 开口波纹管

Application areas:

FIPSPLIT® divisible corrugated conduits

轮廓特征:

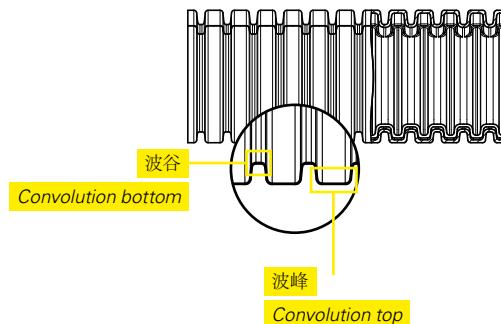
相比细波形, 波型更宽, 方便了外管更容易扣合在内管上

Characteristics profile:

wider profile pitch as for the fine profile, for gripping
the outer tube properly to the inner tube

优化的波型轮廓使波纹管在较小的弯曲半径使用时, 仍能保持波纹管的内外管完美扣合。

Optimized profile for different applications where the corrugated conduits remain closed also at tight
bending radii.



适用于电缆改造项目, 也适用于电缆与连接器已经预装好的场合。

*Suitable for retrofit application of cable protection, also pre-assembled cable harnesses
with already installed connectors.*

IP等级，参照标准EN60529

Ingress protection (IP) according to EN60529

例如IP43 / Example IP43

IP 4 3	
第一位数字: 防止异物直径 $\geq 1,0 \text{ mm}$	
First digit: with diameter $\geq 1,0 \text{ mm}$	
第二位数字: 防止淋水 (60°范围内淋水)	
Second digit: spray water (up to 60° angle)	

第一位数字 / First digit		第二位数字 / Second digit	
0	无防护 <i>not protected</i>	0	无防护 <i>not protected</i>
1	防止异物直径 $\geq 50 \text{ mm}$ <i>with diameter $\geq 50 \text{ mm}$</i>	1	防止垂直方向滴水 <i>vertical water drips</i>
2	防止异物直径 $\geq 12,5 \text{ mm}$ <i>with diameter $\geq 12,5 \text{ mm}$</i>	2	防止滴水 (外壳在15°范围内倾斜时) <i>drips (up to 15° angle)</i>
3	防止异物直径 $\geq 2,5 \text{ mm}$ <i>with diameter $\geq 2,5 \text{ mm}$</i>	3	防止淋水 (60°范围内淋水) <i>spray water (up to 60° angle)</i>
4	防止异物直径 $\geq 1,0 \text{ mm}$ <i>with diameter $\geq 1,0 \text{ mm}$</i>	4	防溅水 <i>splashed water</i>
5	防尘 <i>protected against dust</i>	5	防喷水 <i>strong water jet</i>
6	尘密 <i>protected against penetration of dust</i>	6	防止高压喷水 <i>strong water jet with pressure</i>
		7	防止短时间浸水影响 <i>temporary immersion</i>
		8	防止持续浸水影响 <i>continuous immersion</i>
		9	防止高压水蒸气 <i>high pressure steam cleaner</i>

用于可再生能源系统的线束保护

Cable protection for renewable energy systems



- 柔韧性好, 耐UV及耐候性优异(可达40年)
- 延长敏感线缆的使用寿命, 并降低维护时间
- 防止机械冲击及啮齿类动物咬噬
- *flexible, UV- and weather-resistant (up to 40 years)*
- *extend the service life of sensitive cables while reducing maintenance*
- *protection from mechanical impacts and rodent bites*



以前 / before



现在 / after



2PPS

Material: PP MOD BS

可分型波纹管

Divisible corrugated conduit

+105 °C
-40 °C

+221 °F
-40 °F

- 自熄, 不含卤素和镉
- 耐UV及耐候性能好
- 良好的抗疲劳性能
- 双层结构提供了更高的抗外部冲击能力
- *self-extinguishing, free of halogen and cadmium*
- *average to good weathering performances*
- *good fatigue strength*
- *double shell conduit properly overlaps and provides enhanced cable protection against external impacts*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	灰色 / grey	NW
2PPSM-07B.50	2PPSM-07G.50	07
2PPSM-10B.50	2PPSM-10G.50	10
2PPSM-11B.50	2PPSM-11G.50	11
2PPSM-14B.50	2PPSM-14G.50	14
2PPSM-16B.50	2PPSM-16G.50	16
2PPSM-20B.50	2PPSM-20G.50	20
2PPSM-23B.50	2PPSM-23G.50	23
2PPSM-29B.25	2PPSM-29G.25	29
2PPSM-37B.25	2PPSM-37G.25	37
2PPSM-45B.25	2PPSM-45G.25	45
2PPSM-70B.10	2PPSM-70G.10	70
2PPSM-100B.10	2PPSM-100G.10	100

2PPS-U

Material: PP MOD BS UV

可分型波纹管

Divisible corrugated conduit

+105 °C
-40 °C

+221 °F
-40 °F

- 自熄, 不含卤素和镉
- 耐UV及耐候性能好
- 好的抗疲劳性能
- 双层结构提供了更高的外部抗冲击能力
- *self-extinguishing, free of halogen and cadmium*
- *very good weathering performances*
- *good fatigue strength*
- *double shell conduit properly overlaps and provides enhanced cable protection against external impacts*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	
2PPSM-07U.50	07	M
2PPSM-10U.50	10	M
2PPSM-11U.50	11	M
2PPSM-14U.50	14	M
2PPSM-16U.50	16	M
2PPSM-20U.50	20	M
2PPSM-23U.50	23	M
2PPSM-29U.25	29	M
2PPSM-37U.25	37	M
2PPSM-45U.25	45	M
2PPSM-70U.10	70	M
2PPSM-100U.10	100	M

2PAN

Material: PA6 MOD

可分型波纹管
Divisible corrugated conduit

+120 °C  +248 °F
-45 °C -49 °F












- 自熄, 不含卤素和镉
- 耐UV及耐候性能好
- 良好的抗疲劳性能
- 良好的机械性能
- 双层结构提供了更高的抗外部冲击能力



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black 2PANM-07B.50	灰色 / grey 2PANM-07G.50	NW 07 M
2PANM-10B.50	2PANM-10G.50	10 M
2PANM-11B.50	2PANM-11G.50	11 M
2PANM-14B.50	2PANM-14G.50	14 M
2PANM-16B.50	2PANM-16G.50	16 M
2PANM-20B.50	2PANM-20G.50	20 M
2PANM-23B.50	2PANM-23G.50	23 M
2PANM-29B.25	2PANM-29G.25	29 M
2PANM-37B.25	2PANM-37G.25	37 M
2PANM-45B.25	2PANM-45G.25	45 M
2PANM-70B.10	2PANM-70G.10	70 M
2PANM-100B.10	2PANM-100G.10	100 M



2PEN

Material: PE LD/HD

可分型波纹管
用于捆扎和引线
Divisible corrugated conduit for bundling and leading wires

+70 °C  +158 °F
-40 °C -104 °F

NEW












- 自熄
- 非常好的抗疲劳强度
- 良好的机械性能
- 良好的耐化学品性能
- 双层结构提供了更高的抗外部冲击能力



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black 2PENM-07B.50	07 M	NW
2PENM-10B.50	10 M	
2PENM-11B.50	11 M	
2PENM-14B.50	14 M	
2PENM-16B.50	16 M	
2PENM-20B.50	20 M	
2PENM-23B.50	23 M	
2PENM-29B.25	29 M	
2PENM-37B.25	37 M	
2PENM-45B.25	45 M	
2PENM-70B.10	70 M	
2PENM-100B.10	100 M	

2PAS

Material: PA6 MOD BS

可分型波纹管
全方位用于各种线缆保护应用
*Divisible corrugated conduit
Allrounder for various cable protection applications*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black 2PASM-07B.50	07	M
灰色 / grey 2PASM-10B.50	10	M
2PASM-11B.50	11	M
2PASM-14B.50	14	M
2PASM-16B.50	16	M
2PASM-20B.50	20	M
2PASM-23B.50	23	M
2PASM-29B.25	29	M
2PASM-37B.25	37	M
2PASM-45B.25	45	M
2PASM-70B.10	70	M
2PASM-100B.10	100	M

- 自熄, 不含卤素和镉
- 良好的抗疲劳强度
- 良好的机械性能
- 良好的防火性能
- 良好的耐候性
- 双层结构提供了更高的抗外部冲击能力





数据表 / Data sheet

CE
UL
ASME
NFPA 130
RoHS
REACH
HALOGEN FREE

工厂
太阳能
风能
火车
铁路
起重机
船
实验室
天线
按钮

2PAF

Material: PA6 MOD V0

可分型波纹管
具有优异的自熄性能
*Divisible corrugated conduit
with excellent fire protection characteristics*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black 2PAFM-07B.50	07	M
2PAFM-10B.50	10	M
2PAFM-11B.50	11	M
2PAFM-14B.50	14	M
2PAFM-16B.50	16	M
2PAFM-20B.50	20	M
2PAFM-23B.50	23	M
2PAFM-29B.25	29	M
2PAFM-37B.25	37	M
2PAFM-45B.25	45	M
2PAFM-70B.10	70	M
2PAFM-100B.10	100	M

- 自熄, 不含卤素和镉
- 良好的抗疲劳强度
- 良好的机械性能
- 良好的防火性能
- 良好的耐候性
- 双层结构提供了更高的抗外部冲击能力





数据表 / Data sheet

CE
UL
ASME
NFPA 130
RoHS
REACH
HALOGEN FREE

工厂
太阳能
风能
火车
铁路
起重机
船
实验室
天线
按钮

120 | FIPSPLIT®

2PDS

Material: PA12 MOD BS

可分型波纹管
具有优异的抗疲劳强度及耐候性能

*Divisible corrugated conduit
with excellent fatigue strength and weathering resistance*

+110 °C
-50 °C

+230 °F
-58 °F

- 自熄, 不含卤素和镉
- 优异的耐候性能
- 良好的抗疲劳强度
- 良好的机械性能
- 良好的防火性能
- 双层结构提供了更高的抗冲击能力



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	灰色 / grey	
2PDSM-07B.50	2PDSM-07G.50	07 M
2PDSM-10B.50	2PDSM-10G.50	10 M
2PDSM-11B.50	2PDSM-11G.50	11 M
2PDSM-14B.50	2PDSM-14G.50	14 M
2PDSM-16B.50	2PDSM-16G.50	16 M
2PDSM-20B.50	2PDSM-20G.50	20 M
2PDSM-23B.50	2PDSM-23G.50	23 M
2PDSM-29B.25	2PDSM-29G.25	29 M
2PDSM-37B.25	2PDSM-37G.25	37 M
2PDSM-45B.25	2PDSM-45G.25	45 M
2PDSM-70B.10	2PDSM-70G.10	70 M
2PDSM-100B.10	2PDSM-100G.10	100 M

2ETS

Material: ETFE

可分型波纹管
用于长期高温应用场合

*Divisible corrugated conduit
for high and continuous temperature applications*

+200 °C
-80 °C

+392 °F
-112 °F

- 自熄
- 优异的耐候性能
- 良好的抗疲劳强度
- 良好的机械性能
- 非常好的耐化学品性能
- 双层结构提供了更高的抗冲击性能



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	
2ETSM-07B.50	07	M
2ETSM-10B.50	10	M
2ETSM-11B.50	11	M
2ETSM-14B.50	14	M
2ETSM-16B.50	16	M
2ETSM-20B.50	20	M
2ETSM-23B.50	23	M
2ETSM-29B.25	29	M
2ETSM-37B.25	37	M
2ETSM-45B.25	45	M



1PPS-U

Material: PP MOD BS UV

单层开缝波纹管
Slit, overlapping corrugated conduit

+105 °C +221 °F
-40 °C -40 °F

- 自熄, 不含卤素和镉
- 良好的抗疲劳强度
- 良好的机械性能
- 良好的耐UV和耐候性能
- 波纹管在开口处的重叠设计, 避免了管子因弯曲导致的开口



- self-extinguishing, free of halogen and cadmium
- good fatigue strength
- good mechanical performances
- good UV and weathering performances
- firmly shaped overlapping at the longitudinal slit, opening of the slotted area due to bending is therefore avoided



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	M
1PPSM-04U.100	04	M
1PPSM-07U.50	07	M
1PPSM-10U.50	10	M
1PPSM-12U.50	12	M
1PPSM-17U.50	17	M
1PPSM-19U.50	19	M



1PAS

Material: PA6 MOD BS

单层开缝波纹管
用于各种线缆保护应用
Slit, overlapping corrugated conduit for various cable protection applications

+120 °C +248 °F
-45 °C -49 °F

- 自熄, 不含卤素和镉
- 良好的耐UV和耐候性能
- 良好的抗疲劳强度
- 良好的机械性能
- 良好的防火性能
- 波纹管在开口处的重叠设计, 避免了管子因弯曲导致的开口



- self-extinguishing, free of halogen and cadmium
- average UV and weathering performances
- good fatigue strength
- good mechanical performances
- good fire safety performances
- firmly shaped overlapping at the longitudinal slit, opening of the slotted area due to bending is therefore avoided



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	M
1PASM-04B.100	04	M
1PASM-07B.50	07	M
1PASM-10B.50	10	M
1PASM-12B.50	12	M
1PASM-17B.50	17	M
1PASM-19B.50	19	M

2PPS-0

Material: PP MOD BS 橙色/orange

色号 RAL2003 / similar to RAL2003

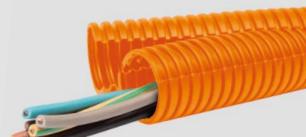
橙色可分型波纹管, 用于线缆标记

Divisible corrugated conduit in orange colour for marking wiring

+105 °C
-40 °C

+221 °F
-40 °F

- 自熄, 不含卤素和镉
- 良好的耐候性能
- 良好的抗疲劳强度
- 双层结构提供了更高的抗外部冲击性能
- 用于线缆需要单独标记的场合
- *self-extinguishing, free of halogen and cadmium*
- *average to good weathering performances*
- *good fatigue strength*
- *double shell conduit properly overlaps and provides enhanced cable protection against external impacts*
- *for applications in which cables or wires have to be marked separately*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
橙色orange RAL2003	NW	
2PPSM-0702.50	07	M
2PPSM-1002.50	10	M
2PPSM-1102.50	11	M
2PPSM-1402.50	14	M
2PPSM-1602.50	16	M
2PPSM-2002.50	20	M
2PPSM-2302.50	23	M
2PPSM-2902.25	29	M
2PPSM-3702.25	37	M
2PPSM-4502.25	45	M
2PPSM-7002.10	70	M
2PPSM-10002.10	100	M

2PAS-0

Material: PP MOD BS 橙色/orange

色号 RAL2003 / similar to RAL2003

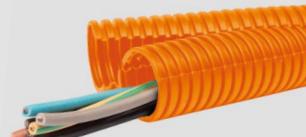
橙色可分型波纹管, 用于线缆标记
用于各种线缆保护应用

*Divisible corrugated conduit in orange colour for marking wiring
Allrounder for various cable protection applications*

+105 °C
-40 °C

+221 °F
-40 °F

- 自熄, 不含卤素和镉
- 良好的耐候性能
- 提高了防火性能
- 双层结构提供了更高的抗外部冲击的性能
- 用于线缆需要单独标记的场合
- *self-extinguishing, free of halogen and cadmium*
- *average to good weathering performances*
- *increased fire safety performances*
- *double shell conduit properly overlaps and provides enhanced cable protection against external impacts*
- *for applications in which cables or wires have to be marked separately*



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
橙色orange RAL2003	NW	
2PASM-0702.50	07	M
2PASM-1002.50	10	M
2PASM-1102.50	11	M
2PASM-1402.50	14	M
2PASM-1602.50	16	M
2PASM-2002.50	20	M
2PASM-2302.50	23	M
2PASM-2902.25	29	M
2PASM-3702.25	37	M
2PASM-4502.25	45	M
2PASM-7002.10	70	M
2PASM-10002.10	100	M

2PDS-O

Material: PA12 MOD BS 橙色/orange

色号 RAL2003 / similar to RAL2003

橙色可分型波纹管, 用于线缆标记
优异的抗疲劳强度

*Divisible corrugated conduit in orange colour for marking wiring
with excellent fatigue strength*

+105 °C
-40 °C

+221 °F
-40 °F

- 自熄, 不含卤素和镉
- 优异的耐候性能
- 良好的抗疲劳强度
- 双层结构提供了更高的抗外部冲击能力
- 用于线缆需要单独标记的场合
- self-extinguishing, free of halogen and cadmium
- excellent weathering performances
- very good fatigue strength
- double shell conduit properly overlaps and provides enhanced cable protection against external impacts
- for applications in which cables or wires have to be marked separately



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
橙色orange RAL2003	NW	
2PDSM-0702.50	07	M
2PDSM-1002.50	10	M
2PDSM-1102.50	11	M
2PDSM-1402.50	14	M
2PDSM-1602.50	16	M
2PDSM-2002.50	20	M
2PDSM-2302.50	23	M
2PDSM-2902.25	29	M
2PDSM-3702.25	37	M
2PDSM-4502.25	45	M
2PDSM-7002.10	70	M
2PDSM-10002.10	100	M

2PAF-A

Material: PA6 MOD V0 蓝色 / blue

色号 RAL5015 / similar to RAL5015

蓝色可分型波纹管, 用于线缆标记
用于各种线缆保护应用

*Divisible corrugated conduit in blue colour for marking wiring
Allrounder for various cable protection applications*

+120 °C
-45 °C

+248 °F
-49 °F



- 自熄, 不含卤素和镉
- 良好的耐候性能
- 提高了防火性能
- 双层结构提供了更高的抗外部冲击能力
- 用于线缆需要单独标记的场合

- self-extinguishing, free of halogen and cadmium
- average to good weathering performances
- increased fire safety performances.
- double shell conduit properly overlaps and provides enhanced cable protection against external impacts
- for applications in which cables or wires have to be marked separately



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
蓝色 / blue RAL5015	NW	
2PAFM-07A3.50	07	M
2PAFM-10A3.50	10	M
2PAFM-11A3.50	11	M
2PAFM-14A3.50	14	M
2PAFM-16A3.50	16	M
2PAFM-20A3.50	20	M
2PAFM-23A3.50	23	M
2PAFM-29A3.25	29	M
2PAFM-37A3.25	37	M
2PAFM-45A3.25	45	M
2PAFM-70A3.10	70	M
2PAFM-100A3.10	100	M

2PDS-A

Material: PA12 MOD BS 蓝色 / blue

色号 RAL5015 / similar to RAL5015

蓝色可分型波纹管, 用于线缆标记
优异的抗疲劳强度

*Divisible corrugated conduit in blue colour for marking wiring
with excellent fatigue strength*

+110 °C
-50 °C

+230 °F
-58 °F



- 自熄, 不含卤素和镉
- 优异的抗疲劳强度
- 提高了防火性能
- 双层结构提供了更高的抗外部冲击能力
- 用于线缆需要单独标记的场合

- self-extinguishing, free of halogen and cadmium
- excellent fatigue strength
- increased fire safety performances
- double shell conduit properly overlaps and provides enhanced cable protection against external impacts
- for applications in which cables or wires have to be marked separately



数据表 / Data sheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
蓝色 / blue RAL5015	NW	
2PDSM-07A3.50	07	M
2PDSM-10A3.50	10	M
2PDSM-11A3.50	11	M
2PDSM-14A3.50	14	M
2PDSM-16A3.50	16	M
2PDSM-20A3.50	20	M
2PDSM-23A3.50	23	M
2PDSM-29A3.25	29	M
2PDSM-37A3.25	37	M
2PDSM-45A3.25	45	M
2PDSM-70A3.10	70	M
2PDSM-100A3.10	100	M

接头及附件

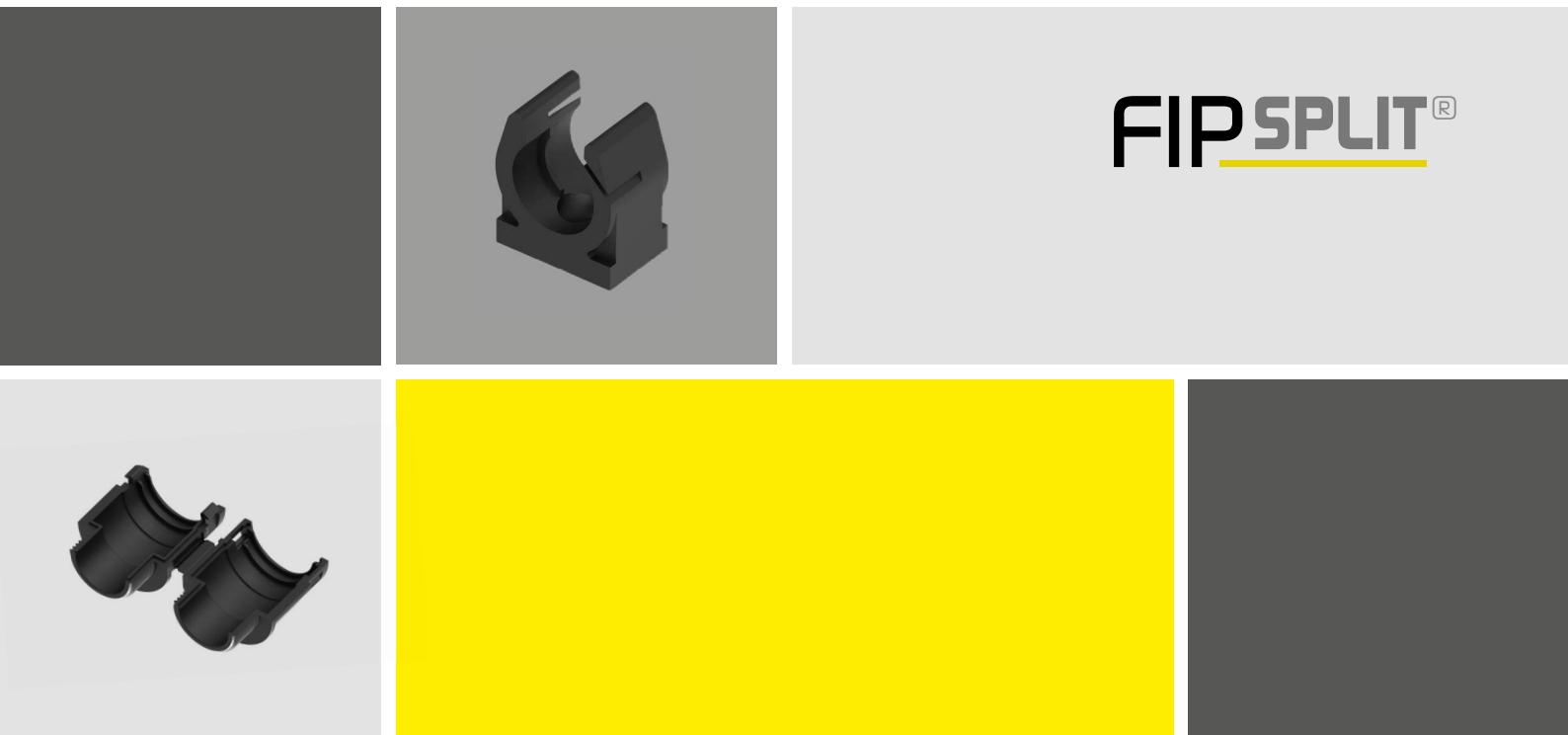
Fittings and accessories

用于 FIPSPLIT® 产品线 / for FIPSPLIT® product range



产品概述 / Product overview

产品 Product	材料 Material	页码 Page
2CNPA	PA6 MOD BS SGA	131
2CPA	PA6 MOD BS SGA	131
2SPA-M	PA6 MOD BS SGA	132
2NTPA-M	PA6 MOD BS SGA	132
2SPA-PG	PA6 MOD BS SGA	133
2NTPA-PG	PA6 MOD BS SGA	133



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>	工厂 Factory	太阳能 Solar	风能 Wind	铁路 Rail	铁路 Rail	起重机 Crane	船舶 Ship	实验室 Lab	天线 Antenna	控制 Control
2CNPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2CPA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2SPA-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2NTPA-M	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2SPA-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2NTPA-PG	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

FIPSPLIT® 附件编码规则

Part numbering key FIPSPLIT® accessories

1 2 3 4 5 6 7 8
2 CN PA - 07 □ □ □ B

1 2 3 4 5 6 7 8
2 NT PA - 10 M 16 P B

1 附件型号 / Accessory group

2 = FIPSPLIT®附件
FIPSPLIT® accessories

2 附件类型 / Material type

CN = 带盖固定座
Mounting clip
NT = 锁紧螺母
Locknut
S = 接头
Fitting

3 材料类型 / Material type

PA = PA6 MOD BS SGA

4 名义尺寸 / Nominal width (NW)

07 – 100 = NW Standard

可选项 / optionally

5 螺纹类型 / Thread type

M = 公制 / metric
P = PG

6 螺纹尺寸 / Thread size

见第129页螺纹表
see thread table on page 129

7 螺纹材料 / Thread material

P = 塑料
Plastic

8 颜色 / Colour

B = 标准黑色
Standard black
G = 标准灰色
Standard grey

螺纹代码

Thread codes

FIPSPLIT®

类型 <i>Type</i>	螺纹尺寸 <i>Thread size</i>	螺纹代码 <i>Part numbering key</i>
M = 公制 / metric EN 60423	M16x1,5	M16
	M20x1,5	M20
	M25x1,5	M25
	M32x1,5	M32
	M40x1,5	M40
	M50x1,5	M50

P = PG DIN 40430	PG9	P09
	PG13,5	P13
	PG21	P21
	PG29	P29

IP等级，参照标准EN60529

Ingress protection (IP) according to EN60529

例如IP43 / Example IP43

IP 4 3	
第一位数字: 防止异物直径 $\geq 1,0 \text{ mm}$	
First digit: with diameter $\geq 1,0 \text{ mm}$	
第二位数字: 防止淋水 (60°范围内淋水)	
Second digit: spray water (up to 60° angle)	

第一位数字 / First digit		第二位数字 / Second digit	
0	无防护 <i>not protected</i>	0	无防护 <i>not protected</i>
1	防止异物直径 $\geq 50 \text{ mm}$ <i>with diameter $\geq 50 \text{ mm}$</i>	1	防止垂直方向滴水 <i>vertical water drips</i>
2	防止异物直径 $\geq 12,5 \text{ mm}$ <i>with diameter $\geq 12,5 \text{ mm}$</i>	2	防止滴水 (外壳在15°范围内倾斜时) <i>drips (up to 15° angle)</i>
3	防止异物直径 $\geq 2,5 \text{ mm}$ <i>with diameter $\geq 2,5 \text{ mm}$</i>	3	防止淋水 (60°范围内淋水) <i>spray water (up to 60° angle)</i>
4	防止异物直径 $\geq 1,0 \text{ mm}$ <i>with diameter $\geq 1,0 \text{ mm}$</i>	4	防溅水 <i>splashed water</i>
5	防尘 <i>protected against dust</i>	5	防喷水 <i>strong water jet</i>
6	尘密 <i>protected against penetration of dust</i>	6	防止高压喷水 <i>strong water jet with pressure</i>
		7	防止短时间浸水影响 <i>temporary immersion</i>
		8	防止持续浸水影响 <i>continuous immersion</i>
		9	防止高压水蒸气 <i>high pressure steam cleaner</i>

2CNPA

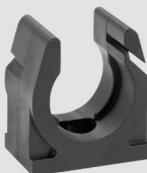
Material: PA6 MOD BS SGA

波纹管固定座

Mounting clip

+120 °C
-45 °C

+248 °F
-49 °F



- 用于FIPSPLIT® 可分型波纹管的固定座
- 可用轧带穿过缝槽加固
- standard mounting clip for FIPSPLIT® corrugated conduits
- slit for cable tie application for reinforced loads



数据表 / Datasheet



产品号 Part No.	名义尺寸 Nominal width
黑色 / black	灰色 / grey
2CNPA-07B	07
2CNPA-10B	10
2CNPA-11B	11
2CNPA-14B	14
2CNPA-16B	16
2CNPA-20B	20
2CNPA-23B	23
2CNPA-29B	29
2CNPA-37B	37
2CNPA-45B	45
2CNPA-70B	70

2CPA

Material: PA6 MOD BS SGA

可开式波纹管连接件

Conduit connector

+120 °C
-45 °C

+248 °F
-49 °F



- 用于FIPSPLIT® 可分型波纹管连接接头
- 用于连接及延伸可分型波纹管
- 适用于改造翻新应用
- divisible conduit fitting (splice) for FIPSPLIT® corrugated conduits
- to connect and extend divisible corrugated conduits
- suitable for retrofit application



数据表 / Datasheet



产品号 Part No.	名义尺寸 Nominal width
黑色 / black	NW
2CPA-45B	45
2CPA-70B	70
2CPA-100B	100

2SPA-M

Material: PA6 MOD BS SGA

可分型接头
直型, 公制螺纹

*Divisible fitting
straight, metric*

+120 °C
-45 °C



+248 °F
-49 °F



数据表 / Datasheet

- 用于FIPSPLIT® 波纹管的可分型直接头
- 公制螺纹
- divisible straight fitting for FIPSPLIT® corrugated conduits*
- with metric thread*



HALOGEN
FREE



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	NW	公制 / metric
2SPA-10M16PB	2SPA-10M16PG	10	M16
2SPA-14M20PB	2SPA-14M20PG	14	M20
2SPA-20M25PB	2SPA-20M25PG	20	M25
2SPA-23M32PB	2SPA-23M32PG	23	M32
2SPA-37M40PB	2SPA-37M40PG	37	M40
2SPA-45M50PB	2SPA-45M50PG	45	M50

2NTPA-M

Material: PA6 MOD BS SGA

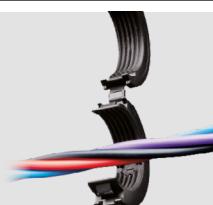
可分型锁紧螺母
公制

*Divisible locknut
metric*

+120 °C
-45 °C



+248 °F
-49 °F



数据表 / Datasheet

- 可分型公制锁紧螺母
- 适用于FIPLOCK® ONE 公制螺纹接头
- 适用于改造翻新应用
- divisible hexagon locknuts with metric threads*
- suitable for FIPLOCK® ONE fittings with metric threads*
- suitable for retrofit application*



HALOGEN
FREE



产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	NW	公制 / metric
2NTPA-10M16PB	2NTPA-10M16PG	10	M16
2NTPA-14M20PB	2NTPA-14M20PG	14	M20
2NTPA-20M25PB	2NTPA-20M25PG	20	M25
2NTPA-23M32PB	2NTPA-23M32PG	23	M32
2NTPA-37M40PB	2NTPA-37M40PG	37	M40
2NTPA-45M50PB	2NTPA-45M50PG	45	M50

2SPA-PG

Material: PA6 MOD BS SGA

可分型接头
直型, PG螺纹

*Divisible fitting
straight, PG*

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Datasheet

- 用于FIPSPLIT® 波纹管的可分型直接头
- PG制螺纹
- divisible straight fitting for FIPSPLIT® corrugated conduits*
- with PG thread*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	NW
2SPA-10P09PB	2SPA-10P09PG	10
2SPA-14P13PB	2SPA-14P13PG	14
2SPA-20P21PB	2SPA-20P21PG	20
2SPA-23P29PB	2SPA-23P29PG	23
2SPA-37P29PB	2SPA-37P29PG	37

2NTPA-PG

Material: PA6 MOD BS SGA

可分型锁紧螺母
PG

*Divisible locknut
PG*

+120 °C
-45 °C

+248 °F
-49 °F



数据表 / Datasheet

- 可分型PG制锁紧螺母
- 适用于FIPLOCK® ONE PG制螺纹接头
- 适用于改造翻新应用
- divisible hexagon locknut with PG thread*
- suitable for FIPLOCK® ONE fittings with PG threads*
- suitable for retrofit application*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	螺纹尺寸 <i>Thread size</i>
黑色 / black	灰色 / grey	NW
2NTPA-10P09PB	2NTPA-10P09PG	10
2NTPA-14P13PB	2NTPA-14P13PG	14
2NTPA-20P21PB	2NTPA-20P21PG	20
2NTPA-23P29PB	2NTPA-23P29PG	23
2NTPA-37P29PB	2NTPA-37P29PG	37

高温波纹管

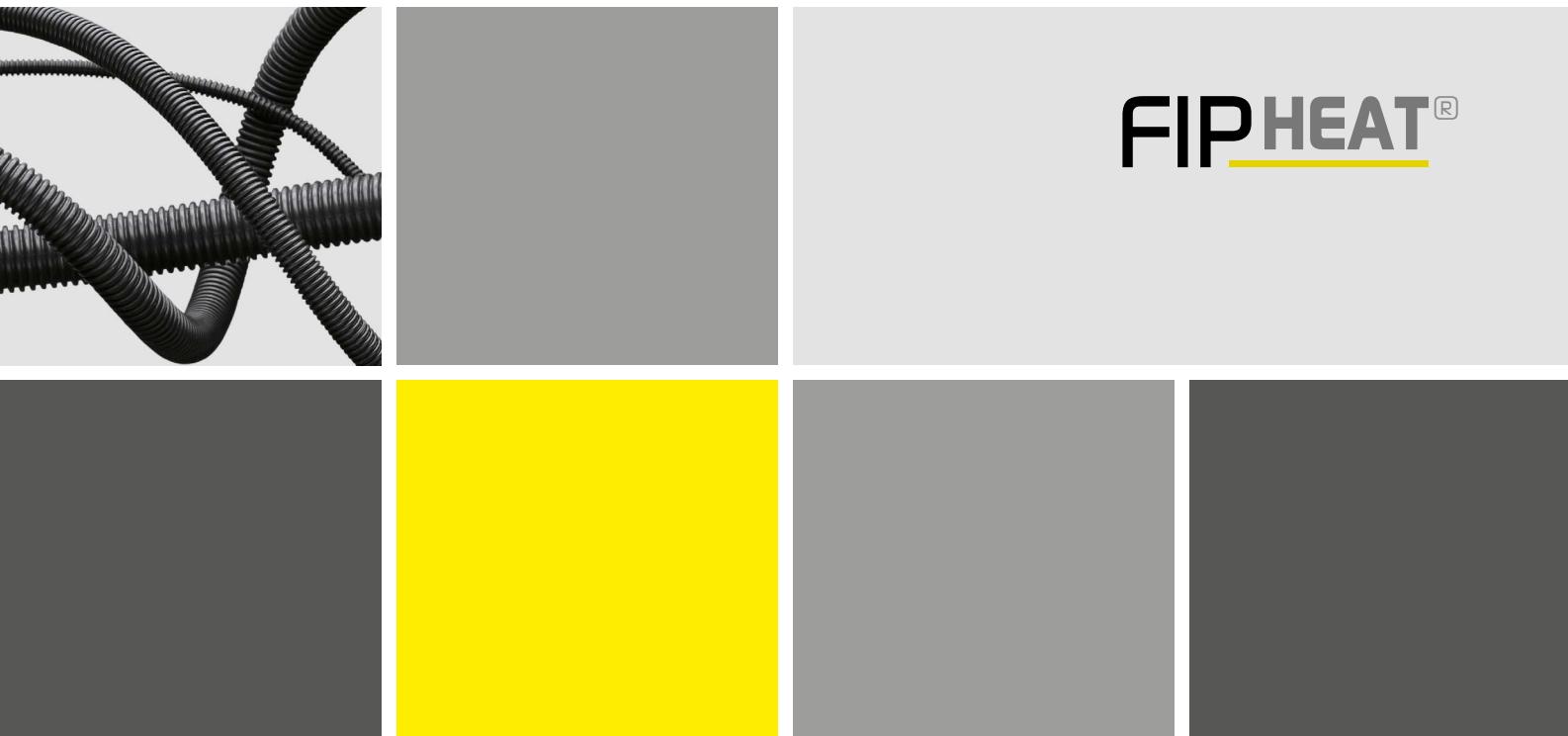
High temperature corrugated conduits



产品概述 / Product overview

产品 Product	材料 Material	波型 Profile	附件 Accessories	页码 Page
FPVS	PVDF	F	✓	138
FTPS	TPE	F	✓	138
FETS	ETFE	X		139
FETS-O	ETFE 橙色 / Orange*	X		139
FPFS	PFA	X		140
FPKS	PEEK	F	✓	140

* 色号 RAL2003 / similar to RAL2003



FIPHEAT®

推荐应用领域 / Recommended areas of application

产品 <i>Product</i>										
FPVS	✓							✓		✓
FTPS	✓							✓		✓
FETS	✓							✓		✓
FETS-O	✓							✓		✓
FPFS	✓							✓		✓
FPKS	✓				✓			✓		✓

FIPHEAT® 波纹管编码规则

Part numbering key FIPHEAT® corrugated conduits



1 型号 / Model

F = FIPHEAT® 标准壁厚
FIPHEAT® standard weight

6 包装单元 (PU) / Packing units (PU)

50 = 每卷长度或每件长度
Coil length or length of pieces
A = 特殊包装单元
Individual packing units

2 材料 / Material type

ETS = ETFE(乙烯-四氟乙烯共聚物)
PFS = PFA(全氟丙基全氟乙烯基醚与聚四氟乙烯共聚物)
PVS = PVDF(聚偏氟乙烯)
TPS = TPE(热塑性弹性体)
PKS = PEEK(聚酰胺酮)

3 波型 / Profile

F = 细波形
Fine profile
X = 特殊波型
Special profile

4 名义尺寸 / Nominal width (NW)

07 – 48 = NW Standard

5 颜色 / Colour

B = 标准黑色
Standard black
02 = 橙色色号 RAL2003
Orange similar to RAL2003

波型

Profiles

FIPHEAT®

F 细波形 / F fine profile

应用场合:

更小的弯曲半径更低的弯曲刚度

Application areas:

for tighter bending radii and lower bending stiffness

轮廓特征:

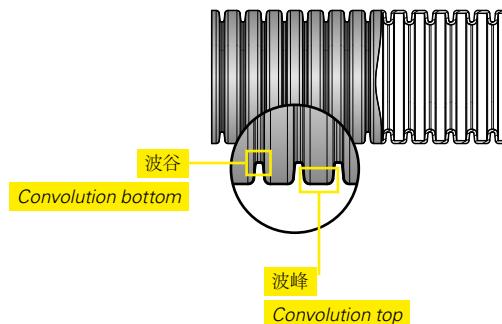
细波形螺距包含了一个波峰和一个波谷

Characteristics profile:

fine profile pitch over convolution top and convolution bottom

每单位长度上更多的波纹大大优化了材料的应力分布。

More convolutions per length provide an optimized distribution of bending stress to the material.



X 特殊波型 / X special profile

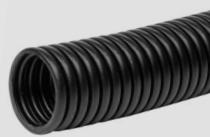
FPVS

Material: PVDF

高温波纹管
优异的耐化学品性能

*High-temperature corrugated conduit
with high chemical resistance*

+150 °C  +302 °F
-60 °C -76 °F



- 产品由高技术聚合材料PVDF制成
- 优异的动态抗疲劳性能
- 优异的耐化学品性能
- 非常好的耐候性
- *HIGHTECH polymer material PVDF*
- *good dynamic fatigue strength*
- *excellent chemical resistance characteristics*
- *very good weathering performances*



数据表 / Datasheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	
FPVSF-07B.50	07	F
FPVSF-10B.50	10	F
FPVSF-12B.50	12	F
FPVSF-17B.50	17	F
FPVSF-23B.50	23	F
FPVSF-29B.25	29	F
FPVSF-36B.25	36	F
FPVSF-48B.25	48	F

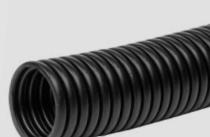
FTPS

Material: TPE

高温波纹管
用于动态应用

*High-temperature corrugated conduit
for dynamic applications*

+150 °C  +302 °F
-60 °C -76 °F



- 产品由热塑性弹性体TPE制成
- 柔韧性优异
- 良好的耐候性
- 适用于有高柔韧性要求的场合
- *thermoplastic elastomer TPE*
- *excellent flexible quality*
- *average to good weathering performances*
- *for applications with highly flexing requirements*



数据表 / Datasheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	
FTPSF-07B.50	07	F
FTPSF-10B.50	10	F
FTPSF-12B.50	12	F
FTPSF-17B.50	17	F
FTPSF-23B.50	23	F
FTPSF-29B.25	29	F
FTPSF-36B.25	36	F
FTPSF-48B.25	48	F



FETS

Material: ETFE

波纹管

用于需要长期耐高温的场合

Corrugated conduit

for high and continuous temperature applications

+200 °C
-80 °C

+392 °F
-112 °F



- 产品由高技术聚合材料ETFE制成
- 良好的动态抗疲劳性能
- 优异的耐化学品性能
- 非常好的耐候性能
- 广泛适用于各种应用领域及有耐高温要求的场合

- *HIGHTECH polymer material ETS*
- *good dynamic fatigue strength*
- *excellent chemical resistance characteristics*
- *excellent weathering performances*
- *suits for extensive applications areas with high temperature requirements*



数据表 / Datasheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
黑色 / black	NW	
FETSX-07B.50	07	X
FETSX-10B.50	10	X
FETSX-12B.50	12	X
FETSX-17B.50	17	X
FETSX-23B.50	23	X
FETSX-29B.25	29	X
FETSX-36B.25	36	X
FETSX-48B.25	48	X

FETS-O

Material: ETFE 橙色 / orange

色号 RAL2003 / similar to RAL2003

橙色波纹管

用于需要长期耐高温的场合

Corrugated conduit in orange colour

for high and continuous temperature applications

+200 °C
-80 °C

+392 °F
-112 °F



- 产品由高技术聚合材料橙色ETFE制成
- 良好的动态抗疲劳性能
- 优异的耐化学品性能
- 非常好的耐候性能
- 广泛适用于各种应用领域及有耐高温要求的场合

- *HIGHTECH polymer material ETFE in orange*
- *good dynamic fatigue strength*
- *excellent chemical resistance characteristics*
- *excellent weathering performances*
- *suits for extensive applications areas with high temperature requirements*



数据表 / Datasheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
特殊橙色 / special orange	NW	
FETSX-0702.50	07	X
FETSX-1002.50	10	X
FETSX-1202.50	12	X
FETSX-1702.50	17	X
FETSX-2302.50	23	X
FETSX-2902.25	29	X
FETSX-3602.25	36	X
FETSX-4802.25	48	X

FPFS

Material: PFA

波纹管

用于需要长期耐最高等级高温的场合

Corrugated conduit

for highest and continuous temperature applications

+260 °C
-200 °C

+500 °F
-328 °F



数据表 / Datasheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
FPFSX-07B.50	FPFSX-07N.50	07 X
FPFSX-10B.50	FPFSX-10N.50	10 X
FPFSX-12B.50	FPFSX-12N.50	12 X
FPFSX-17B.50	FPFSX-17N.50	17 X
FPFSX-23B.50	FPFSX-23N.50	23 X
FPFSX-29B.25	FPFSX-29N.25	29 X
FPFSX-33B.25	FPFSX-33N.25	33 X

FPKS

Material: PEEK (聚醚酰酮)

高温波纹管
自熄

*High-temperature corrugated conduit
self-extinguishing*

+300 °C
-30 °C

+572 °F
-22 °F



数据表 / Datasheet



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>	波型 <i>Profile</i>
FPKSF-07B.50	FPKSF-07B.50	07 F
FPKSF-10B.50	FPKSF-10B.50	10 F
FPKSF-12B.50	FPKSF-12B.50	12 F
FPKSF-17B.50	FPKSF-17B.50	17 F
FPKSF-23B.50	FPKSF-23B.50	23 F
FPKSF-29B.25	FPKSF-29B.25	29 F
FPKSF-36B.25	FPKSF-36B.25	36 F
FPKSF-48B.25	FPKSF-48B.25	48 F

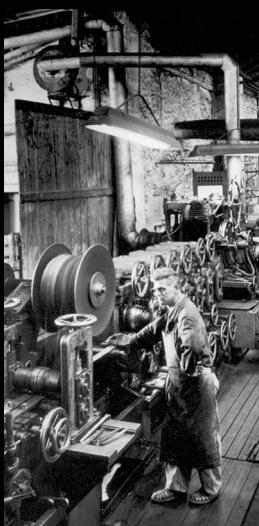
FRÄNKISCHE 里程碑 / *milestones*

关键产品开发

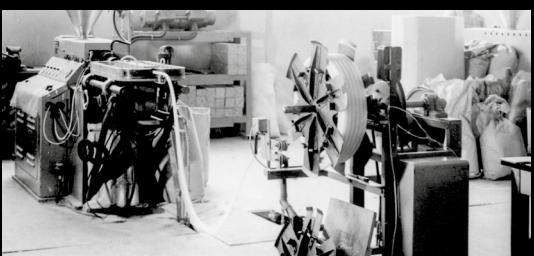
Fundamental product developments



1952



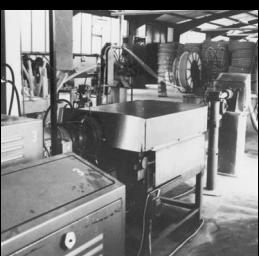
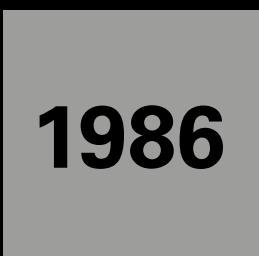
1959



1961



世界上第一条连续生产的塑料排水管
World's first corrugated continuously manufactured drainage pipe made of plastic



更多公司信息: www.fraenische.com/aboutus

Find out more about our success story: www.fraenische.com/aboutus

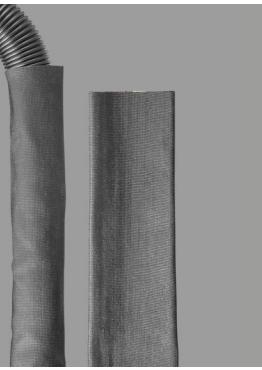
编织套管

Textile protection sleeves



产品概述 / Product overview

产品 Product	材料 Material	页码 Page
BPET-CC	Polyester	145
BPET-V0	PET V0	145
BPA66-CC	尼龙 6.6 / Polyamide 6.6	146
WPET-HS	PET	146
WPET-SC	PET	147
WPET-SCF	PET V0	147
KPA-PC	PA6/PET + PU涂层 / PA6/PET + PU laquering	148
WGF-LA	玻璃纤维钩织管外覆铝膜 <i>Woven glass with aluminium coating</i>	148



推荐应用领域 / Recommended areas of application

产品 <i>Product</i>										
BPET-CC	✓	✓	✓			✓	✓	✓		✓
BPET-V0	✓	✓	✓	✓		✓	✓	✓		✓
BPA66-CC	✓	✓	✓			✓	✓	✓		✓
WPET-HS	✓		✓				✓	✓		✓
WPET-SC	✓	✓	✓			✓	✓	✓		✓
WPET-SCF	✓	✓	✓	✓		✓	✓	✓		✓
KPA-PC	✓	✓	✓			✓	✓	✓		✓
WGF-LA	✓		✓				✓	✓		✓

FIPJACK® 编制保护套管编码规则

Part numbering key FIPJACK® protection sleeves

1 2 3 4 5 6
B PET CC - 23 B . 50

1 编织管类型 / Sleeves group

W = 钩织管 / woven

K = 针织管 / knitted

B = 编织管 / braided

2 材料类型 / Material type

GF = 玻璃纤维 / Glass fiber

PET = 聚酯 / Polyester

PA6 = 尼龙 6 / Polyamide 6

PA66 = 尼龙 6.6 / Polyamide 6.6

CUTP = 铜镀锡 / Copper tin plated

5 颜色 / Colour

B = 标准黑

Standard black

G = 标准灰

Standard grey

S = 银灰

Silver grey

6 包装单元 (PU)

Packing units (PU)

50 = 每卷长度或每包数量

Coil length or pieces

3 种类 / Quality

LA = 铝覆膜 / laminated aluminium

SC = 自卷 / self closing

SCF = 自卷 UL 94 V0 / selfclosing UL 94 V0

CC = 可冷切 / cold cutable

V0 = UL 94 V0

4 公称尺寸 / Nominal width (NW)

04 = 最小 NW / smallest NW

到 / to

XXX = 最大 NW / largest NW

BPET-CC

Material: Polyester

PET编制套管

可冷切

*PET braided hose
cold cut version*

+150 °C
-55 °C

+302 °F
-67 °F



数据表 / Data sheet

- 耐磨性能非常好, 同时具有良好的耐化学溶剂性能
- 编织管表面有特殊涂层, 使之可便于冷切
- 适用于空间有限位置的线缆线束的捆扎
- *very good protection against chafing and good resistance against chemical solvents*
- *braided hose that is specially coated for cold-cut capabilities, therefore it can be cut with normal scissors without intention for frizzling*
- *bundling and protection of cables and wires also at limited application spaces*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
BPET-CC04B.50	04
BPET-CC06B.50	06
BPET-CC08B.50	08
BPET-CC10B.50	10
BPET-CC12B.50	12
BPET-CC14B.50	14
BPET-CC16B.50	16
BPET-CC20B.50	20
BPET-CC25B.25	25
BPET-CC30B.25	30
BPET-CC35B.20	35
BPET-CC40B.20	40
BPET-CC45B.20	45
BPET-CC50B.20	50

BPET-VO

Material: PET VO

PET编织套管

PET braided hose

+150 °C
-55 °C

+302 °F
-67 °F



数据表 / Data sheet

- 具有优异的自熄及防火性能
- 适用于需要考虑人员防火安全的场合以及用于公共场合的设备
- 适用于空间有限位置的线缆线束的捆扎
- *provides excellent self-extinguishing and fire performances*
- *suitable for protective applications of wires and cables in areas considering high personal safety requirements as well as appliances and equipment's used in public buildings*
- *bundling and protection of cables and wires also at limited application spaces*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	灰色 / grey
BPET-V004B.50	BPET-V004G.50
BPET-V006B.50	BPET-V006G.50
BPET-V008B.50	BPET-V008G.50
BPET-V010B.50	BPET-V010G.50
BPET-V012B.50	BPET-V012G.50
BPET-V015B.50	BPET-V015G.50
BPET-V020B.50	BPET-V020G.50
BPET-V025B.25	BPET-V025G.25
BPET-V030B.25	BPET-V030G.25
BPET-V040B.20	BPET-V040G.20
BPET-V050B.20	BPET-V050G.20

BPA66-CC

Material: 尼龙6.6/Polyamid 6.6

尼龙编织套管
可冷切

*Polyamide braided hose
cold cut version*

+125 °C
-55 °C

+257 °F
-67 °F



数据表 / Data sheet

- 耐磨性能非常好, 同时具有良好的耐化学溶剂性能
- 编织管表面有特殊涂层, 使之可便于冷切
- 适用于空间有限位置的线缆线束的捆扎
- *very good protection against chafing good and resistance against chemical solvents*
- *braided hose that is specially coated for cold-cut capabilities, therefore it can be cut with normal scissors without intention for frizzling*
- *bundling and protection of cables and wires also at limited application spaces*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
BPA66-CC04B.50	04
BPA66-CC06B.50	06
BPA66-CC08B.50	08
BPA66-CC10B.50	10
BPA66-CC12B.50	12
BPA66-CC14B.50	14
BPA66-CC16B.50	16
BPA66-CC20B.50	20
BPA66-CC25B.25	25
BPA66-CC30B.25	30
BPA66-CC35B.20	35
BPA66-CC40B.20	40
BPA66-CC45B.20	45
BPA66-CC50B.20	50

WPET-HS

Material: PET

钩织管
可热收缩

*Woven hose
heat-shrinkable*

+150 °C
-40 °C

+302 °F
-40 °F



数据表 / Data sheet

- 套管由极耐磨的PET及弯曲纤维制成, 具有非常高的耐磨能力
- 即使是小尺寸型号, 收缩性能也非常好
- 套管编织牢固, 柔韧性好
- *made of extremely abrasion resistant PET warp fibers and shows an increased abrasion resistance*
- *optimal shrinking figures, also at small radii*
- *great textile stability and remaining flexibility on customers components*



产品号 <i>Part No.</i>	名义尺寸 <i>Nominal width</i>
黑色 / black	NW
WPET-HS12B05.50	12/06
WPET-HS25B05.50	25/12
WPET-HS30B05.50	30/15
WPET-HS50B05.25	50/25
WPET-HS70B05.25	70/35

WPET-SC

Material: PET

钩织套管
自卷
*Woven hose
selfclosing*

+150 °C +302 °F
-55 °C -67 °F

- 优异的防割及防磨性能
- 可自卷
- 可用于线缆线束的捆扎
- 套管可以让线缆线束从中间位置单独穿出
- *excellent cut and chafing resistance*
- *self-wrapping and overlapping fabric tape*
- *can be used for cost efficient easy bundling of cables and wires*
- *the wrapped sleeves can be reopened and allow cable and wire bundling with intermediate exits of individual conductors*



数据表 / Data sheet












产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>
黑色 / black	灰色 / grey	NW
WPET-SC08B.50	WPET-SC08G.50	08
WPET-SC10B.50	WPET-SC10G.50	10
WPET-SC13B.50	WPET-SC13G.50	13
WPET-SC16B.25	WPET-SC16G.25	16
WPET-SC19B.25	WPET-SC19G.25	19
WPET-SC25B.25	WPET-SC25G.25	25
WPET-SC29B.25	WPET-SC29G.25	29
WPET-SC32B.25	WPET-SC32G.25	32
WPET-SC38B.25	WPET-SC38G.25	38
WPET-SC50B.25	WPET-SC50G.25	50

WPET-SCF

Material: PET VO

钩织套管
自卷, 高阻燃
*Woven hose
selfclosing, high flame resistant*

+150 °C +302 °F
-55 °C -67 °F

- 具有优异的防火性能和防割及防磨性能
- 可自卷
- 可用于线缆线束的捆扎
- 套管可以让线缆线束从中间位置单独穿出
- *improved fire characteristics, excellent cut and chafing resistance*
- *self-wrapping and overlapping fabric tape*
- *can be used for cost efficient easy bundling of cables and wires*
- *the wrapped sleeves can be reopened and allow cable and wire bundling with intermediate exits of individual conductors*



数据表 / Data sheet












产品号 <i>Part No.</i>		名义尺寸 <i>Nominal width</i>
黑色 / black	灰色 / grey	NW
WPET-SCF08B.50	WPET-SCF08G.50	08
WPET-SCF10B.50	WPET-SCF10G.50	10
WPET-SCF13B.50	WPET-SCF13G.50	13
WPET-SCF16B.25	WPET-SCF16G.25	16
WPET-SCF19B.25	WPET-SCF19G.25	19
WPET-SCF25B.25	WPET-SCF25G.25	25
WPET-SCF29B.25	WPET-SCF29G.25	29
WPET-SCF32B.25	WPET-SCF32G.25	32
WPET-SCF38B.25	WPET-SCF38G.25	38
WPET-SCF50B.25	WPET-SCF50G.25	50

KPA-PC

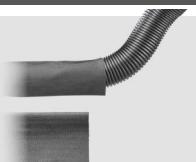
Material: PA6/PET + PU覆膜
PA6/PET + PU lacquering

针织套管
高耐磨

Knitted hose
high abrasion resistant

+160 °C
-40 °C

+320 °F
-40 °F



- 非常高的耐磨性能, 耐磨超过LV-312-3标准最高要求的50倍 (按照LV标准最高要求2百万次)
- 耐温可达160 °C
- 柔韧性非常好, 特别适用于空间有限的位置
- *very high abrasion resistance exceeding 50 times the maximum requirements of LV-312-3 (2 million cycles according to LV)*
- *temperature-resistant up to 160 °C*
- *because of a high flexibility usable in confined spaces*



数据表 / Data sheet

HALOGEN FREE



产品号
Part No.

名义尺寸
Nominal width

黑色 / **black**

NW

KPA-PC10B.50

10

KPA-PC16B.50

16

KPA-PC21B.25

21

KPA-PC25B.25

25

KPA-PC50B.25

50

WGF-LA

Material: 玻璃纤维钩织管外覆铝膜
Glass fiber with aluminium coating

玻璃纤维钩织管
Woven glass fiber hose

+220 °C
-40 °C

+428 °F
-40 °F



- 耐温非常高 (长期最高使用温度220°), 同时具有非常高的耐化学品能力
- 可短期反射最高650°C的外部热辐射, 保护内部线缆 不受损伤
- 不使用特殊工具即可裁切
- 产品柔软, 且质量轻, 可用于各种不同场合
- *high-temperature resistant (withstands 220°C continuous) and high chemical resistance*
- *reflects radiant heat up to 650°C and insulates the hose inside for a limited time*
- *cuttable without special tools*
- *due to its flexible form and low weight it is usable for different areas*



数据表 / Data sheet



产品号
Part No.

名义尺寸
Nominal width

银色 / **silver**

NW

WGF-LA-10S.50

10

WGF-LA-13S.50

13

WGF-LA-16S.50

16

WGF-LA-22S.25

22

WGF-LA-32S.25

32

WGF-LA-38S.25

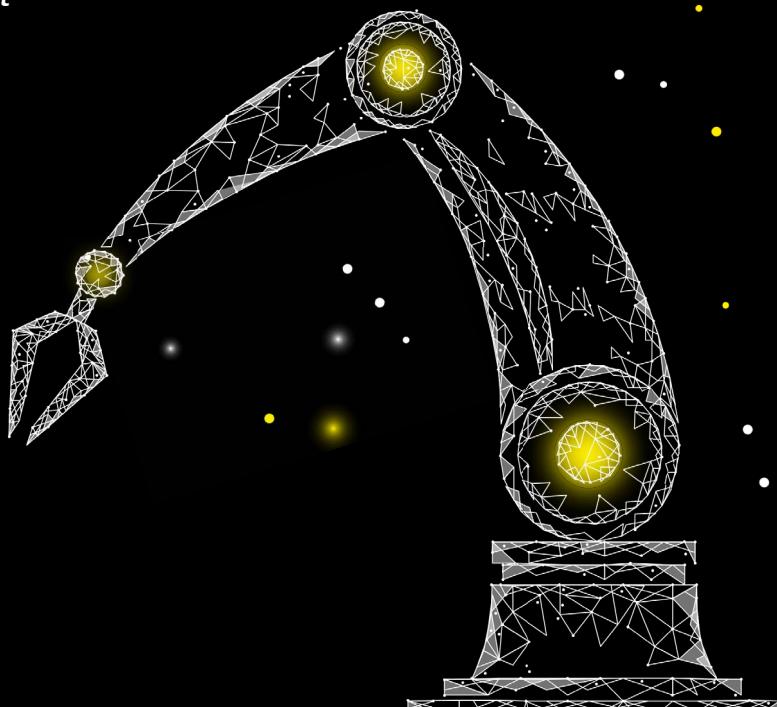
38

高柔韧性电缆保护产品

Highly flexible cable protection

动态且适用强

dynamic and resilient



- 耐动态疲劳性能优异
- 耐磨损性能优异
- 满足极端动态应用需求
- 设计寿命长

- *high dynamical load capacity*
- *excellent abrasion characteristics*
- *keeps up with extreme movements*
- *designed for a long service life*

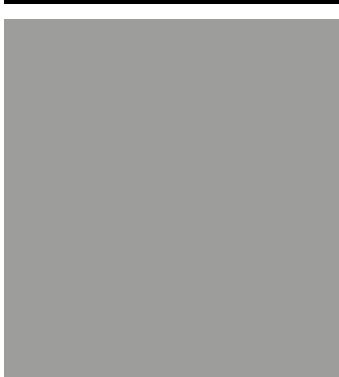
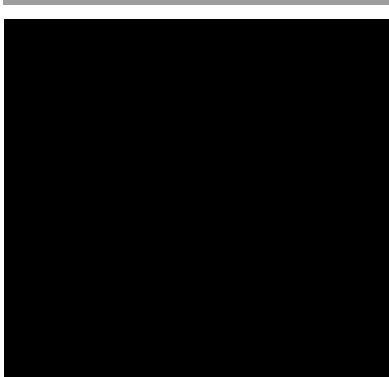
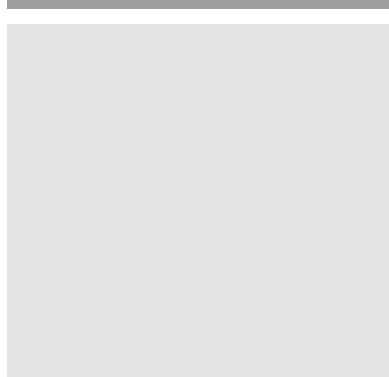


机器人系统

FIPMOTION®

波纹管抗疲劳性能优异，特别适用于长期连续动态应用场合。FIPMOTION®的设计适用于长期使用寿命要求的场合。具有较高的机械性能和耐化学品性能。

在设计和集成管线包时，正确的附件及安装也是保证系统整体寿命的关键。



Robotic system

FIPMOTION®

corrugated conduits are characterized by their excellent fatigue strength for continuous dynamic flexing movements. FIPMOTION® corrugated conduits were also designed for a long service life. High mechanical and chemical resistance round off the property profile.

The right accessories are also crucial when designing and integrating the dress packages for the longest possible service life.

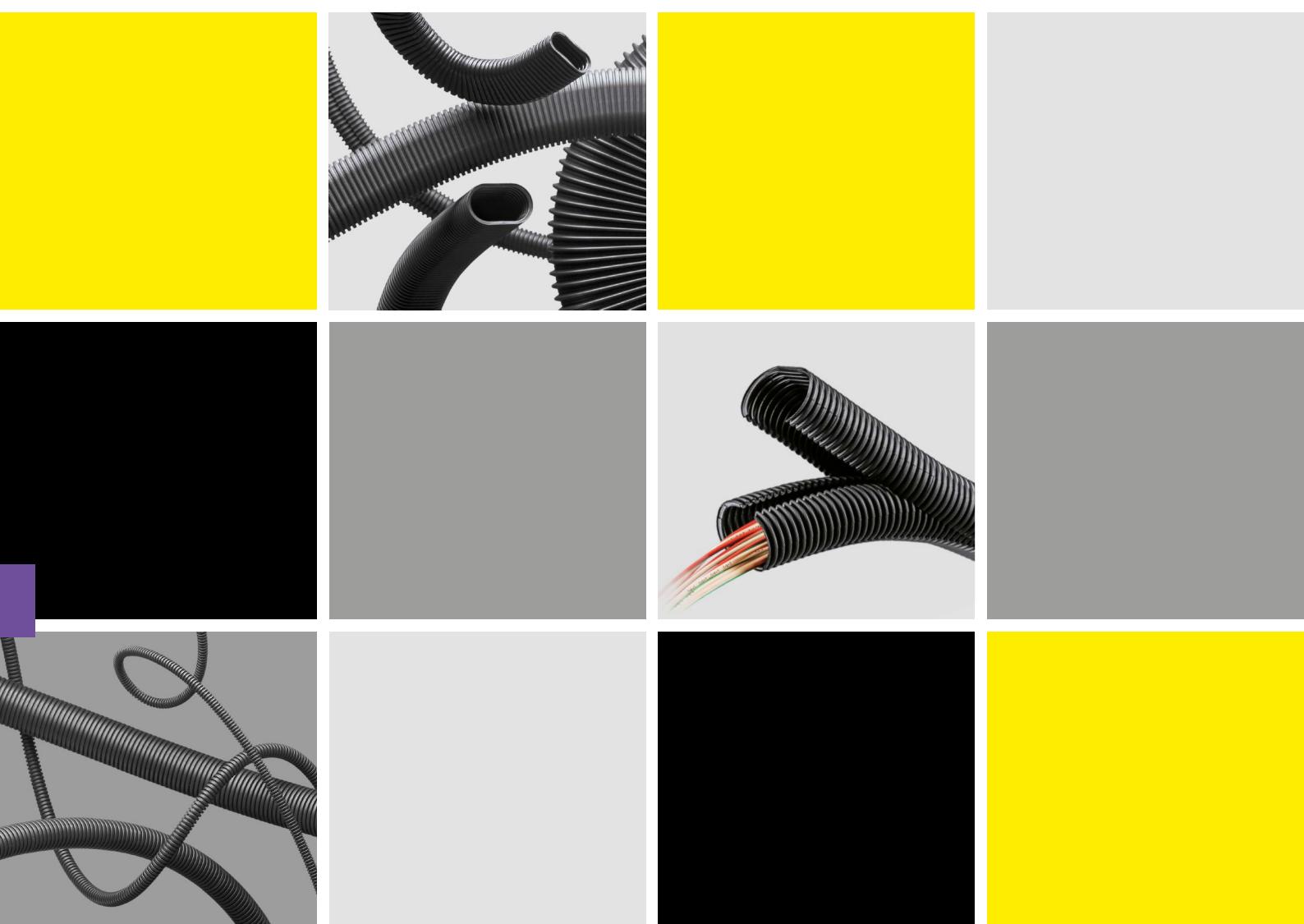


扫描二维码直接获得
FIPMOTION®产品信息。
Use this QR Code to get
directly to our FIPMOTION®
product range.

特殊解决方案

FIPSPECIALS®

特殊解决方案产品族，例如分段产品系统，管路集成了连接螺纹。用于特殊安装需求的管路造型，如方形，六角形，椭圆形波纹管。及多层波纹管等等。

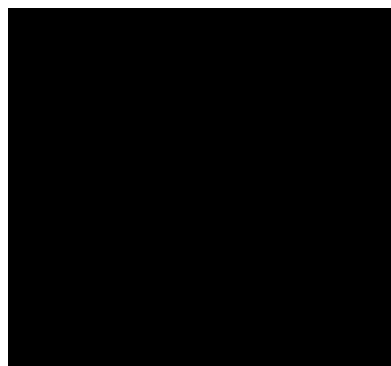
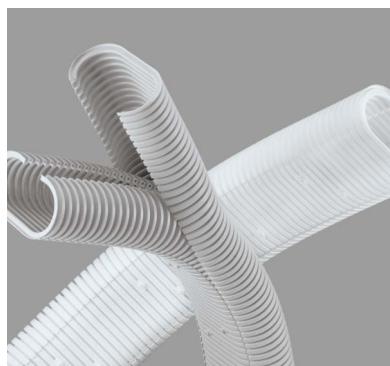
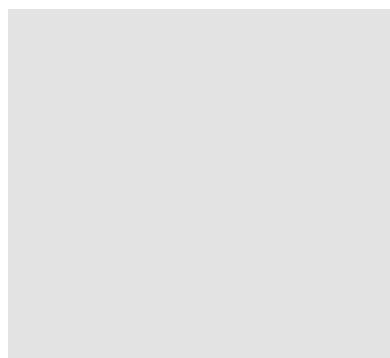


FIPSPECIALS®

Special solutions

FIPSPECIALS®

is the product group for extraordinary solutions such as segmented conduit systems, corrugated conduits with an integrated thread connection, special shapes for customized installation, square, hexagonal, oval corrugated conduits, or even multi-layer corrugated conduits (co-extrusion) – to mention just a few.



扫描二维码直接获得
FIPSPECIALS® 产品信息。
Use this QR Code to get
directly to our FIPSPECIALS®
product range.

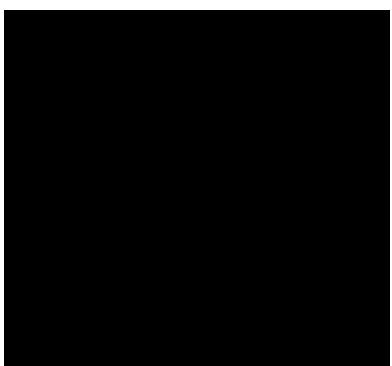
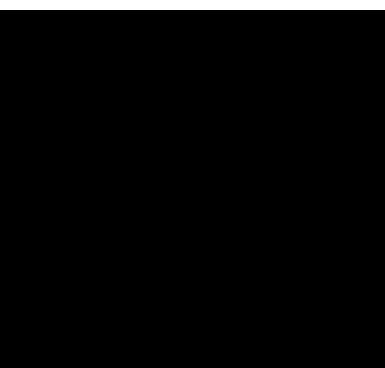
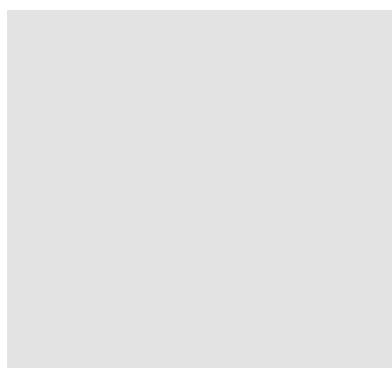
金属保护管及附件

FIPMETAL®

金属保护管具有非常好的柔韧性，并能防止拉伸，扭转，压缩以及机械磨损及变形。特别是，相关附件有不同的连接类型及各种螺纹类型和尺寸可选。

FIPMETAL® 附件

丰富的产品类型，并适配FIPMETAL® 金属管。



FIPMETAL®

Metal protection conduits and accessories

FIPMETAL®

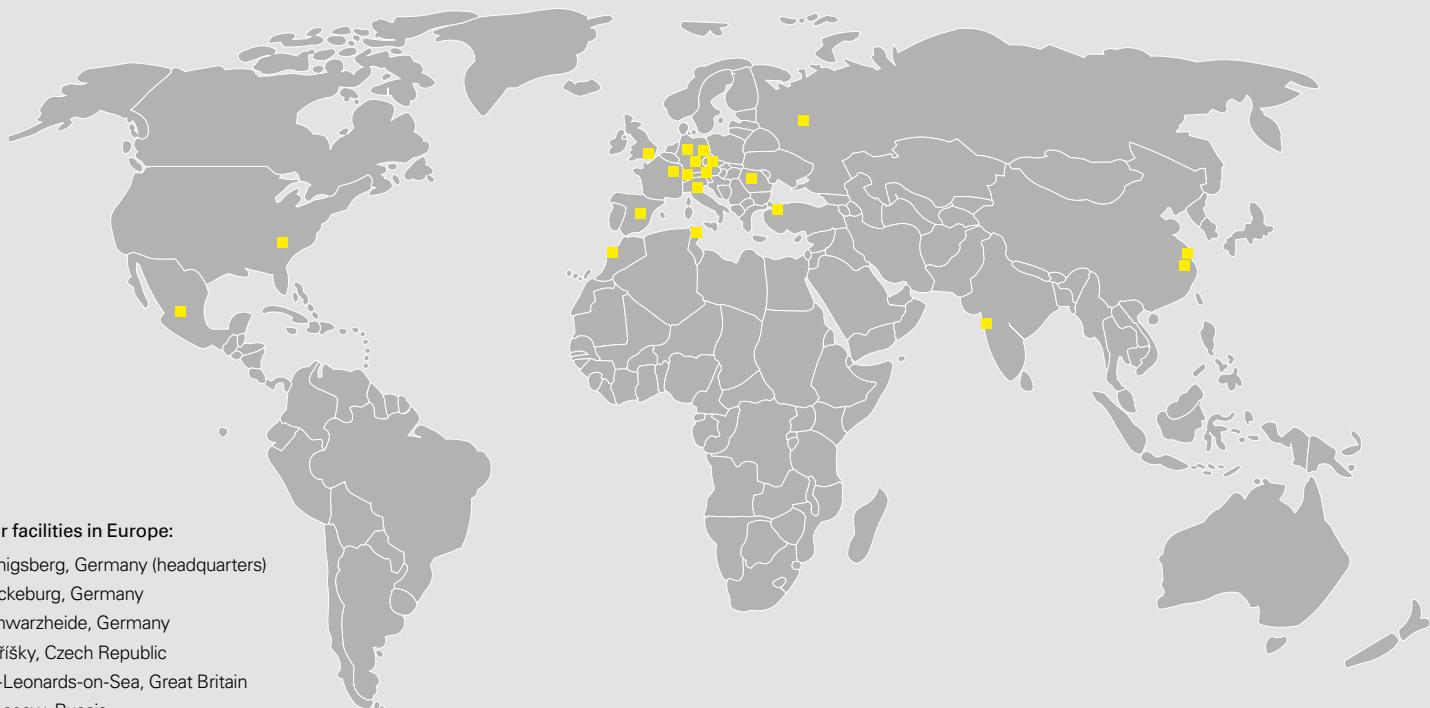
metal protection conduits are highly flexible and protect against traction, torsion, compression as well as mechanical wear and deformation. Uniquely, the associated fitting series allows an individual combination with different connection thread types and sizes.

FIPMETAL® accessories

complete our high quality cable protection program and fit on our FIPMETAL® metal protection conduits.



Rooted in Königsberg – globally successful!



Our facilities in Europe:

Königsberg, Germany (headquarters)
Bückeburg, Germany
Schwarzheide, Germany
Okříšky, Czech Republic
St.-Leonards-on-Sea, Great Britain
Moscow, Russia
Yeles/Toledo, Spain
Torcy-le-Grand, France
Ebersbach/Fils, Germany
Hermsdorf, Germany
Milan, Italy
Istanbul, Turkey
Cluj, Romania
Wels, Austria

Our facilities in North America and Mexico:

Anderson, USA
Rochester Hills, USA
Silao, Mexico

Our facilities in Africa:

Ben Arous, Tunisia
Casablanca, Morocco

Our facilities in Asia:

Anting/Shanghai, China
Hangzhou, China
Changshu, China
Pune, India

FRÄNKISCHE is an industry leader in the design, manufacturing and marketing of technically superior pipe systems, shafts and system components made of plastic and metal, and offers solutions for building construction, civil engineering, automotive and industrial applications.

Founded in 1906, the company is a third-generation family-owned business with around 4,500 employees working at production and sales facilities around the globe.