



PMA cable protection system for automation applications

适用于自动化行业的PMA电缆保护系统



PMA Robotic Equipment

The PMA Robotic Equipment has been designed to protect cables and leads in extreme automation and robotic installations. All components help to reduce damage and outwear of the stear and lead elements and can therefore significantly increase the life cycle of the installation. The movements of the installation will not be limited. Different conduit types for different applicational demands, supports and a range of accessories can avoid torsion forces on the conduits if correctly applied and stresses on the complete cable package can be reduced. The PMA Robotic Equipment series allow an optimum installation along moving elements as well as a quick and easy installation.

If PMA products are used in conjunction with non PMA products, all product liability claims will be rejected.

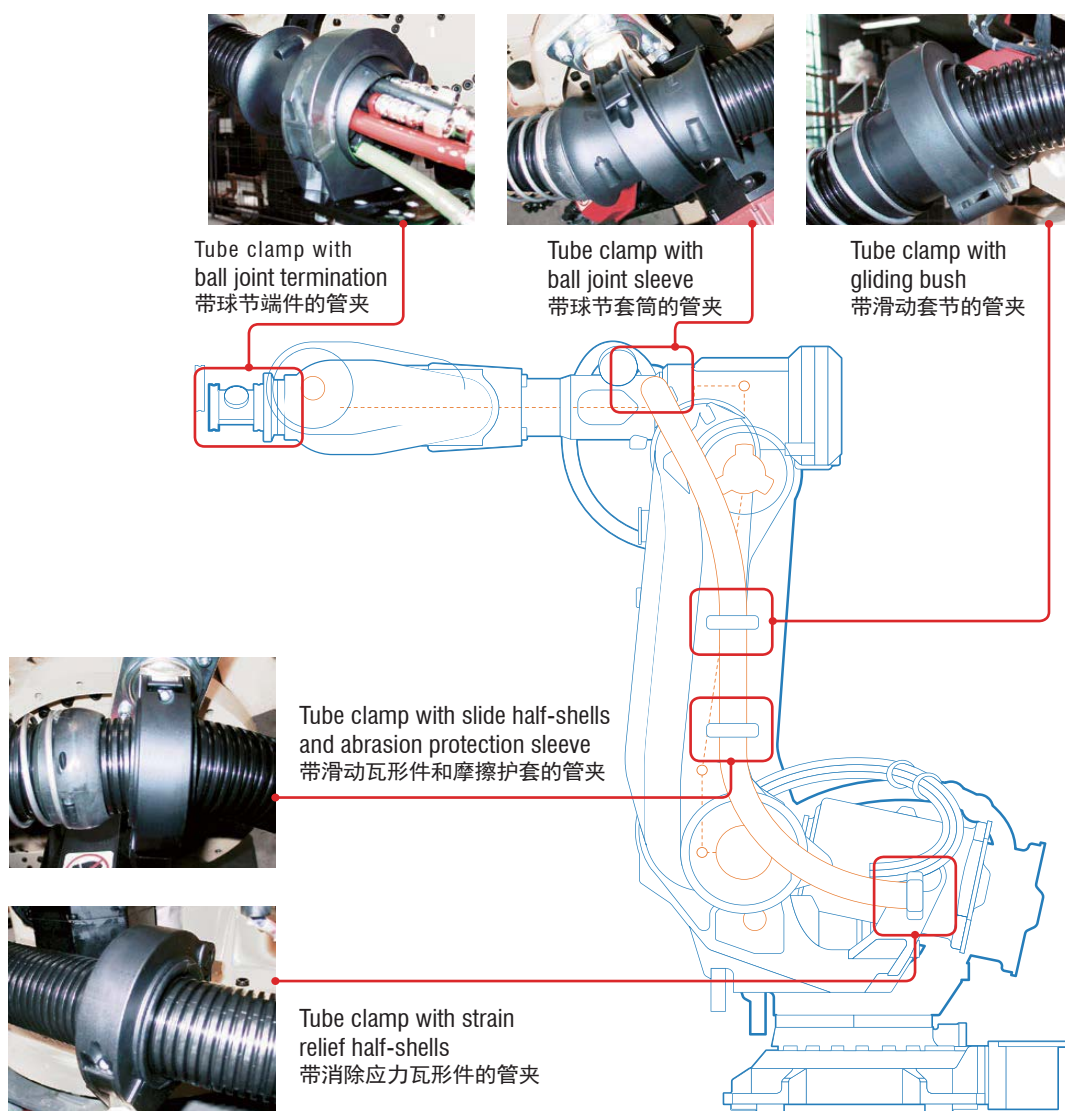
PMA机器人系列软管和配件

PMA机器人系列软管和配件专为电缆保护和引导极端自动控制和机器人安装而设计。所有组件有助于减少损坏和老化且能引导单元并显著提升生命周期。安装的运动部分将不会被限制。

不同种类的软管可应用于不同的需求，如正确安装系列附件可避免作用在软管上的旋转扭力，同时也可减少电缆系统上的压力。

PMA机器人系列软管和配件可使移动单元的安裝最佳化，同时使安装过程更快更简单。

所有与非PMA产品联合使用而产生的不良后果责任由用户自负。





- High-grade, specially formulated polyurethane
- Free of halogens and cadmium
- Excellent chafing properties
- Highest flexibility
- Temperature range: -60°C to +50°C
- 高级，特殊改良聚亚胺脂制成
- 不含卤素和镉
- 优异的抗磨性
- 优异的柔软性
- 温度范围：-60°C 至 +50°C

PUE highly flexible, medium-wall

Produced from specially modified polyurethane
Conduit type with low mechanical strength, allowing very tight bending radius.
Extreme flexibility and particularly good chafing resistance (e. g. axes 5 and 6 in robotic installations).

PUE 极柔软，中壁

CE

用特殊改良聚亚胺酯制造。
低机械强度软管，弯曲半径极小。
极度柔软，耐磨性好（如机器人结构中的5-6轴）。

Order No. black 订货号 黑色	Profile 波纹	Conduit size NW 软管规格 标称内径	Conduit size metric 软管规格 公制	Inside Diameter 内径	Outside Diameter 外径	stat.** / dyn.*** Radius 静态 / 动态 最小弯曲半径	PU meter 包装量 米
PUET-23B	T	23	25	22.4	28.5	35 / 70	50
PUET-29B	T	29	32	28.8	34.5	40 / 90	30
PUET-36B	T	36	40	35.8	42.4	50 / 120	30
PUET-48B	T	48	50	48.6	54.5	60 / 130	21
PUEG-56B	G	56	68	56.3	67.2	90 / 170	30
PUEG-70B	G	70	80	68.2	80.5	100 / 200	30

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)
For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.11701
要了解详细技术规格，请索取“技术数据表” DB-Nr.11701

unit = mm
单位 = mm



- High-grade, specially formulated polyurethane
- Highest flexibility
- Excellent resistance to abrasion
- Increased resistance to elongation
- Free from halogens and cadmium
- Temperature range: -60°C to +50°C
- Chemical resistance: To fuels, mineral oils and fats etc.
- 高级，特殊改良聚亚胺脂制成
- 极高柔软性
- 优异的抗磨损性
- 耐拉伸率增强
- 不含卤素和镉
- 温度范围：-60°C 至 +50°C
- 耐化学性：防燃油，矿物油，脂肪等

PUEH highly flexible, heavy-duty

For dynamic applications in robotics and automation.

PUEH 极柔软，厚壁

在机器人和自动化方面的动态应用。

CE

Order No. black 订货号 黑色	Profile 波纹	Conduit size NW 软管规格 标称内径	Conduit size metric 软管规格 公制	Inside diameter 内径	Outside diameter 外径	stat.** / dyn.*** radius 静态 / 动态 最小弯曲半径	PU meter 包装单位 米
PUEHG-70B	G	70	80	67.5	80.2	100 / 220	30

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)
For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.11702
要了解详细技术规格，请索取“技术数据表” DB-Nr.11702

unit = mm
单位 = mm

PIS/PIH*highly flexible,
medium-and heavy-duty*

Produced from specially modified polyamide (PA12)
Combines material strength with excellent flexibility
For dynamic conduit movements in robotic and
automation systems (e.g. axes 1 to 4)

PIS/PIH

极柔软，中壁和厚壁



用特殊改良聚酰胺（PA12）制造。
材料强度高，柔软性极高
适用于机器人和自动化系统的动态的柔性
软管敷设（如轴1-4）。

Order No. black 订货号 黑色	Profile 波纹	Conduit size NW metric 软管规格 标称内径 公制	Inside diameter 内径	Outside diameter 外径	stat. **/ dyn. *** radius 静态**/动态*** 最小弯曲半径	PU meter 包装量 米
PIST-23B	T	23 25	23.2	28.4	40 / 110	50
PIST-29B	T	29 32	28.9	34.5	50 / 135	50
PIST-36B	T	36 40	36.8	42.4	60 / 170	30
PIST-48B	T	48 50	48.0	54.5	75 / 220	30
PISG-23B	G	23 25	22.0	28.4	45 / 110	50
PISG-29B	G	29 32	27.8	34.5	55 / 135	50
PISG-36B	G	36 40	36.2	42.4	65 / 170	30
PISG-48B	G	48 50	47.1	54.5	85 / 220	30
PIHG-56B	G	56 68	57.0	67.2	110 / 270	30
PIHG-70B	G	70 80	68.0	79.6	130 / 320	30

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.11000

要了解详细技术规格，请索取“技术数据表”DB-Nr.11000

unit = mm
单位 = mm

- Specially modified polyamide 12
- Excellent resistance to ultra violet rays and atmospheric corrosion
- Excellent flexibility
- Self-extinguishing
- Free from halogens and cadmium
- Good mechanical strength at low temperatures and dry conditions
- Temperature range: -50°C to +95°C; Short-term to +150°C

- 特殊改良聚酰胺12制成
- 优异的耐候性和抗紫外线能力
- 优异的柔软性
- 自熄灭性好
- 不含卤素和镉
- 低温下也有极好的机械性能
- 在温度范围：-50°C至+95°C；短期温度+150°C

POS*highly flexible, medium-duty*

Use in automation as well as in machine building and
industrial installations, especially where continuous
movements occur.

POS

极柔软，中壁

适用于自动化，机械制造及工业装置中经常频繁活
动区域。

Order No. black 订货号 黑色	Profile 波纹	Conduit size NW 软管规格 标称内径	Conduit size metric 软管尺寸 公制	Inside Diameter 内径	Outside Diameter 外径	stat.** / dyn.*** Radius 静态 / 动态 最小弯曲半径	PU meter 包装单位 米	MOQ (M) 最小起订量 黑色B
POST-23B	T	23	25	22.6	28.5	40 / 100	50	—
POST-29B	T	29	32	29.0	34.5	50 / 120	50	—
POST-36B	T	36	40	36.5	42.5	60 / 180	30	—
POST-48B	T	48	50	47.5	54.5	70 / 195	30	—
# POSG-29B	G	29	32	27.6	34.5	50 / 120	50	1200
# POSG-36B	G	36	40	36.0	42.5	60 / 180	30	1080
# POSG-48B	G	48	50	47.0	54.5	70 / 195	30	960
POSG-70B	G	70	80	67.2	79.6	150 / 350	30	—

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.11040

要了解详细技术规格，请索取“技术数据表”DB-Nr.11040

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm

- Specially modified polyolefin
- Excellent reversed bending performance
- Very good insulating characteristics
- Free from halogens and cadmium
- Excellent flexibility
- Good impact resistance
- Good resistance against strong acids
- Temperature range: -25°C to +95°C; Short-term: +130°C
- Chemical resistance: To fuels, mineral oils, fats, alkalies, acids and bases etc.

- 特别改良聚烯烃
- 极好的交变弯曲性能
- 非常好的绝缘特性
- 不含卤素和镉
- 极柔软
- 良好的抗冲击性
- 耐强酸性
- 温度范围：-25°C至+95°C；短期温度+130°C
- 耐化学性：防燃油，矿物油，脂肪，碱，酸等



- Outer, intermediate and inner layer made from high-grade, specially formulated polyamide 12
- With wear indicator
- High resistance to continuous bending
- No abrupt conduit failure due to high tear propagation resistance
- High resistance to torsion and elongation
- Long service life
- Free from halogen and cadmium
- **Temperature range:** -40°C to +95°C; **Short-term** to +150°C
- **Chemical resistance:** To fuels, mineral oils, fats, alkalies, acids and bases etc.

- 外层，中间夹层和内层：高级特别配方聚酰胺12
- 磨损指示器
- 优异的交变弯曲性
- 由于抗撕裂的扩展，以便于软管不会突然发生断裂
- 良好的扭转及抗拉强度
- 使用寿命较长
- 不含卤素、镉
- 温度范围：-40°C 至 +95°C; 短期温度 +150°C
- 耐化学性：防燃油，矿物油，脂肪，碱，酸等

XR90G *very flexible, medium-duty*

For dynamically moving conduit systems in robotics and automation industry

XR90G 非常柔软, 中壁

适用于机器人及自动化领域动态软管系统。

Order No. black / red 订货号 黑色 / 红色	Profile 波纹	Conduit size NW 软管规格 标称内径	Conduit size metric 软管规格 公制	Inside diameter 内径	Outside diameter 外径	stat.** / dyn.** radius 静态 / 动态 最小弯曲半径	PU meter 包装单位 米
XR90G-23BR	G	23	25	21.4	28.4	45 / 100	50
XR90G-29BR	G	29	32	27.2	34.5	55 / 135	50
XR90G-36BR	G	36	40	35.9	42.4	65 / 170	30
XR90G-48BR	G	48	50	47.0	54.5	85 / 220	30
XR90G-56BR	G	56	68	56.7	67.3	110 / 270	30
XR90G-70BR	G	70	80	67.8	79.8	130 / 320	30

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)
For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.16080
要了解详细技术规格，请索取“技术数据表” DB-Nr.16080

unit = mm
单位 = mm



- Outer, intermediate and inner layer made from high-grade, specially formulated polyamide 12
- With wear indication function
- High resistance to continuous bending
- No abrupt conduit failure due to high tear propagation resistance
- Improved chafing resistance
- Highly flexible, small bending radii possible
- High resistance to torsion
- Long service life
- Free from halogen and cadmium
- **Temperature range:** -40°C to +95°C; **Short-term** to +150°C

- 外层，中间夹层和内层：高级特别配方聚酰胺12
- 带有磨损指示器功能
- 优异的交变弯曲性
- 由于抗撕裂的扩展，以便于软管不会突然发生断裂，
- 经改良，具有抗磨损性
- 极柔软，较小的弯曲半径
- 极好的扭转性能
- 使用寿命较长
- 不含卤素、镉
- 温度范围：-40°C 至 +95°C; 短期温度 +150°C

XR90H *Highly flexible, medium-duty*

Multilayer conduit for the robotic and automation industry.

XR90H 极柔软, 中壁

多层软管适用于机器人和自动化领域。

Order No. black / red 订货号 黑色 / 红色	Profile 波纹	Conduit size NW 软管规格 标称内径	Conduit size metric 软管规格 公制	Inside diameter 内径	Outside diameter 外径	stat.** / dyn.** radius 静态 / 动态 最小弯曲半径	PU meter 包装单位 米	MOQ (M) 最小 起订量
XR90H-70BR	H	70	80	67.5	82.5	150 / 300	30	540

Larger outer diameter - not suitable for current NW70 accessories

较大外径 - 不适用于现有的NW70配件

High profile H 高波纹

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.16081

要了解详细技术规格，请索取“技术数据表” DB-Nr.16081

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm

ESD Very flexible,
medium duty

For dynamic applications in robotics and automation where electrostatic charge and uncontrolled discharge need to be avoided.

ESD 极柔软，中壁

在机器人和自动化领域动态安装中需要防静电要求的场合。



Order No. black	Profile	Conduit size NW	Conduit size metric	Inside diameter	Outside diameter	stat.** / dyn.*** radius	PU meter	MOQ (M)
订货号 黑色	波纹	软管规格 标称内径	软管规格 公制	内径	外径	静态 / 动态 最小弯曲半径	包装单位 米	最小起订量 黑色B
ESDT-23B	T	23	25	23.0	28.4	40 / 110	50	—
ESDT-29B	T	29	32	28.7	34.5	50 / 135	50	—
ESDT-36B	T	36	40	36.8	42.4	60 / 170	30	—
ESDT-48B	T	48	50	48.0	54.5	75 / 220	30	—
# ESDG-56B	G	56	68	55.8	67.0	110 / 270	30	630
ESDG-70B	G	70	80	67.4	80.0	130 / 320	10	—
# ESDG-75B	G	75	—	76.0	89.0	155 / 350	30	810

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)
For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.11500 / 11501
要了解详细技术规格，请索取“技术数据表” DB-Nr.11500 / 11501
标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm



- High grade, specially formulated polyamide 12
- Prevents electrostatic charging
- For indoor and outdoor use (very good cold temperature performance)
- Excellent UV-resistance and high dynamic load resistance
- Free from halogens and cadmium
- Very good chemical properties
- Temperature range: -40°C to +90°C; Shot-term: +150°C;
- Chemical resistance: To fuels,mineral oils,fats,alkalies,acids etc.

- 高级，特殊配方聚酰胺12制成
- 防静电产生
- 用于室内和室外使用（非常良好的低温性能）
- 优异的抗紫外线和高动态负载阻抗
- 不含卤素和镉
- 非常好的化学性能
- 温度范围：-40°C 至 +90°C; 短期温度：+150°C;
- 耐化学性：防燃油，矿物油，脂肪，碱，酸等

SH tube clamp

In automation applications for guiding or fixing PMA conduits.

SH 管夹

适用于自动化行业，便于PMA软管的导向和固定。

Order No. black	Fits to conduit size NW	Fits to conduit size metric	Dimensions length / height / width
订货号 黑色	适配软管 标称内径	适配软管 公制	尺寸 长 / 高 / 宽
BSH-R23	23	25	63.0 / 60.5 / 26.0
BSH-R29	29	32	70.3 / 67.0 / 26.0
BSH-R36	36	40	81.6 / 77.5 / 26.0
BSH-R48	48	50	95.8 / 91.0 / 26.0
BSH-R56	56	68	112.6 / 109.8 / 30.0
BSH-R70	70	80	148.7 / 144.0 / 40.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40500
要了解详细技术规格，请索取“技术数据表” DB-Nr.40500

unit = mm
单位 = mm



- High-grade, specially formulated polyamide6
- Easy installation
- Provide axial strain relief for conduits but allowing rotation
- Especially suitable for dynamic applications
- Flexible combination with system blocks
- Variety of fixation possibilities
- Self-extinguishing
- Free from halogens and cadmium
- Excellent impact strength
- Temperature range: -40°C to +105°C; Shot-term: +160°C
- Content of delivery: Tube clamp, 1 PT screw, 1 Straight pin

- 高级，特殊配方聚酰胺6制成
- 易于安装
- 让软管的轴向应力消除但允许旋转
- 特别适用于动态应用
- 与系统模块灵活组合应用
- 固定的多种可能性
- 自熄灭性好
- 不含卤素和镉
- 极好的冲击强度
- 温度范围：-40°C 至 +105°C; 短期温度：+160°C;
- 包含配件：管夹，1个PT型螺钉，1个直形钉



- High-grade, specially formulated polyamide 6
- 2-piece tube clamp
- Specially compact construction
- To be used in combination with standard half-shell GN, data sheet No.40050
- Easy installation
- Allows optimum installations in automation applications due to space saving design
- Extends lifecycle of the cable pack due to reduced mechanical stress (avoiding torsion)
- Free from halogens and cadmium
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C;
- **Content of delivery:** Tube clamp, BGN half shells, 2PT screw, 1 Straight pin

- 高级，特殊配方聚酰胺6制成
- 2件管夹
- 特别紧凑的结构
- 要使用标准的半壳GN组合，“技术数据表” No.40050
- 易于安装
- 允许缘于节省空间设计的自动化应用设备优化
- 由于减少机械应力（避免扭曲）延长管线包的生命周期
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C; 短期温度：+160°C
- 包含配件：管夹，BGN瓦形件，2个PT型螺钉，1个直形钉



- High-grade formulated polyamide 6
- Free of halogens and cadmium
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C

- 高级合成聚酰胺6制成
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C; 短期温度：+160°C

LH tube clamp compact

The LH tube clamp in combination with GN half shells is used for fixation of PMAFLEX conduits in automation applications.

LH 紧凑式管夹

配合GN瓦形件的LH紧凑式管夹可应用于自动化应用中对PMAFLEX软管的固定。

Order No. black 订货号 黑色	Including half-shell GN 包括 瓦形件	Fits to Conduit size NW 适配软管尺寸 标称内径	metric 公制	Conduit Profile 软管 波纹	Dimensions width x length x depth 尺寸 宽 x 长 x 深	MOQ(pcs) 最小起订量 黑色B
# BLH-R56G	BGN-S56G/70	56	68	G	121 x 30 x 128	500
# BLH-R70G	BGN-S70G	70	80	G	121 x 30 x 128	500
# BLH-R70	—	—	—	—	121 x 30 x 128	500

For technical specification in details, please ask for “Technical Data Sheet” DB-Nr.40501
要了解详细技术规格，请索取“技术数据表” DB-Nr.40501

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm

GN slide half-shell

These inserts for SH tube clamps allow sliding of the conduit in the clamps and thus reduce axial stress on the conduit.

GN 滑动瓦形件

用于SH管夹的滑动瓦形件能让软管滑入管夹，从而降低软管的轴向应力。

Order No. black 订货号 黑色	Fits to tube clamp SH 适配 SH管夹	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Conduit profile 软管 波纹	Dimensions outside / width 尺寸 外径 / 宽度
BGN-R29	BSH-R29	29	32	T+G	47.0 / 34.0
BGN-R36/48	BSH-R48	36	40	T+ G	66.5 / 34.0
BGN-R36	BSH-R36	36	40	T+G	55.0 / 36.0
BGN-R48	BSH-R48	48	50	T+G	66.5 / 34.0
BGN-R56	BSH-R56	56	68	G	81.0 / 38.0
BGN-R56S/70	BSH-R70	56	68	G	105.0 / 45.0
BGN-R70	BSH-R70	70	80	G	105.0 / 45.0

For technical specification in details, please ask for “Technical Data Sheet” DB-Nr.40505
要了解详细技术规格，请索取“技术数据表” DB-Nr.40505

unit = mm
单位 = mm

SSK Ball-joint half shells

Axial fixation allowing conduit rotation and 15°-20° freedom of movement.

SSK 球节瓦形件

允许软管旋转和15°-20°自由度的轴向固定运动。

Order No. black 订货号 黑色	Conduit profile 软管 波纹	Fits to tube clamp SH 适配 SH管夹	Complete Kit part number 套餐型号	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Outside diameter 外径	Dimensions width 宽度
BSSK-23GT	T + G	BSH-R23	KIT-BSSK/R23GT	23	25	42.2	27.0
BSSK-29GT	T + G	BSH-R29	KIT-BSSK/R29GT	29	32	48.1	28.0
BSSK-36GT	T + G	BSH-R36	KIT-BSSK/R36GT	36	40	55.0	30.0
BSSK-48GT	T + G	BSH-R48	KIT-BSSK/R48GT	48	50	65.9	30.0
BSSK-56G	G	BSH-R56	KIT-BSSK/R56G	56	68	80.9	34.0

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40516

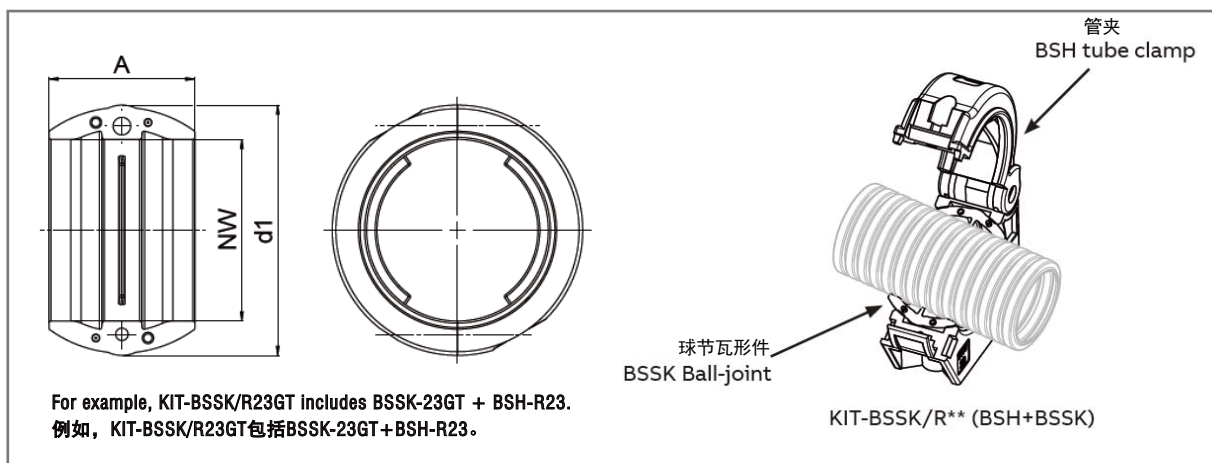
要了解详细技术规格, 请索取“技术数据表”DB-Nr.40516

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Increases degree of freedom for conduits
- Optimum solution for cable guidance in automation applications
- Extends lifecycle of conduit and cables due to reduced mechanical stress
- Easy to install and exchange
- Free of halogens and cadmium
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级合成聚酰胺6
- 增加软管的灵活性
- 在自动化应用中对电缆指引提供最佳的解决方案
- 由于降低相应的机械应力, 从而延长软管和电缆的使用寿命。
- 易于安装和更换
- 不含卤素和镉
- 温度范围: -40°C 至 +105°C; 短期温度: +160°C


GN strain relief half-shell

These inserts for SH tube clamps fix the conduits against axial movements but still allow radial turning of the conduit within the clamps.

GN 消除应力瓦形件

用于SH管夹的这种瓦形件可防止轴向移动, 但仍可使软管在管夹内选择运动。

Order No. black 订货号 黑色	Fits to tube clamp SH 适配 SH管夹	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Conduit profile 软管 波纹	Dimensions outside / width 尺寸 外径 / 宽度
BGN-S23T	BSH-R23	23	25	T	39.5 / 34.0
BGN-S23G	BSH-R23	23	25	G	39.5 / 34.0
BGN-S29T	BSH-R29	29	32	T	47.0 / 34.0
BGN-S29G	BSH-R29	29	32	G	47.0 / 34.0
BGN-S36T	BSH-R36	36	40	T	55.0 / 36.5
BGN-S36G	BSH-R36	36	40	G	55.0 / 34.0
BGN-S48T	BSH-R48	48	50	T	66.5 / 34.0
BGN-S48G	BSH-R48	48	50	G	66.5 / 34.0
BGN-S56G	BSH-R56	56	68	G	81.0 / 38.0
BGN-S70G	BLH-R70	70	80	G	93.5 / 38.0
BGN-R70G	BSH-R70	70	80	G	105.0 / 45.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40505

要了解详细技术规格, 请索取“技术数据表”DB-Nr.40505

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Free of halogens and cadmium
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级合成聚酰胺6制成
- 不含卤素和镉
- 温度范围: -40°C 至 +105°C; 短期温度: +160°C;



- High-grade formulated polyamide 6
- Free of halogens and cadmium
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C

- 高级合成聚酰胺6制成
- 不含卤素和镉
- 温度范围: -40°C至+105°C; 短期温度: +160°C

GN strain relief half-shell reduction

The GN Strain Relief Half-Shell Reductions allow the application of PMA SH tube clamps and other automation accessories also for conduits of the next smaller dimension. Radial turning of the conduits within the reduction rings is possible.

GN 消除应力缩减瓦形件

这种瓦形件可用于PMA SH管夹和其它较小软管的自动化附件。软管的径向转动可在允许的范围之内。

Order No. black 订货号 黑色	Fits to tube clamp SH SH适配 管夹	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Conduit profile 软管 波纹	Dimensions outside / width 尺寸 外径 / 宽度	MOQ(pcs) 最小起订量 黑色
BGN-R36GT/48	BSH-R48	36	40	T + G	66.5 / 34.0	—
#BGN-S56G/70	BSH-R70	56	68	G	105.0 / 45.0	待定
BGN-R56G/70G	BTR-R70G BKE-R70G	56	68	G	80.0 / 35.0	—

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40505

要了解详细技术规格, 请索取“技术数据表”DB-Nr.40505

标记为 # 的产品有最小起订量 (MOQ), 待定 = MOQ需与工厂确认

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Increased degree of freedom for cable packs
- The ball joint offers additional flexibility and reduces mechanical stress on the conduit
- Can be used with strain relief insert TR to fix the conduit axial direction
- Easy to install and exchange
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C
- **Content of delivery:** Ball Joint Sleeve, 4 PT screws

- 高级合成聚酰胺6制成
- 提高电缆组件的灵活性
- 球节套筒增加软管的柔软性, 同时可大大降低运动中给软管带来的机械应力
- 配合TR消除应力插入件, 可用来固定软管在套管内的轴向运动
- 易于安装和替换
- 温度范围: -40°C至+105°C; 短期温度: +160°C
- 包含配件: 球节套筒, 4个PT型螺钉

TK ball joint sleeve

The TK ball joint sleeve combined with SH tube clamp can be used for gliding PMAFLEX conduits in automation applications. The ball joint offers additional flexibility and reduces mechanical stress on the conduit. The TR strain relief insert can be used to fix the conduit in the sleeve in axial direction.

TK 球节套筒

SH管夹配合TK球节套筒, 可以在机器人的应用中控制PMAFLEX系列电缆保护软管滑动和定位。此外, 球节套筒提供更高的柔软性和消除软管应力。TR消除应力插入件可用来固定软管在套管内的轴向运动。

Order No. black 订货号 黑色	Fits to 适配	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	PT screws PT型螺钉	Outside diameter 外径	Dimensions width 宽度
BTK-R70	BTR-R70G+BGN-R56G/70G	56	68	KA 50 x 20	122.0	140.0
BTK-R70	BTR-R70G	70	80	KA 50 x 20	122.0	140.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40510

要了解详细技术规格, 请索取“技术数据表”DB-Nr.40510

unit = mm
单位 = mm

TR strain relief insert

The TR strain relief insert can be used to fix the conduit against axial movements in TK ball joint sleeves. Rotation of the conduit remains possible.

TR 消除应力插入件

TR消除应力插入件可防止软管在TK球节套筒上的轴向运动，但仍可允许其径向旋转。

Order No. black 订货号 黑色	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Conduit profile 软管 波纹	Outside diameter 外径	Dimensions length 长度
BTR-R70G	70	80	G	92.0	25.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40510
要了解详细技术规格，请索取“技术数据表”DB-Nr.40510

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Free of halogens and cadmium
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级合成聚酰胺6
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C；短期温度：+160°C

FE gliding bush

The FE gliding bush can be fixed in the SH tube clamp and allows easy gliding of the conduit e.g. in combination with a specialised pull back system.

FE 滑动套筒

FE滑动套筒可固定在SH管夹上，使软管易于滑动，例如：与某一特定回拉装置组合使用。

Order No. black 订货号 黑色	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Outside diameter 外径	Dimensions width 宽度	MOQ(pcs) 最小 起订量
# BFE-R70	70	80	104.0	93.5	200

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40520
要了解详细技术规格，请索取“技术数据表”DB-Nr.40520

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Will be fixed in the tube clamp SH
- Used as termination for fixing a pull back mechanism
- Allows easy gliding of the conduit
- Free of halogens and cadmium
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级合成聚酰胺6制成
- 将固定在管夹SH中
- 作为末端应用固定回拉装置
- 使软管易于滑动
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C；短期温度：+160°C



- High-grade formulated polyamide 6
- Increased degree of freedom for cable packs
- Optimum solution for cable guidance in automation applications
- Extends lifecycle of conduit and cables due to reduced mechanical stress
- Easy to install and exchange
- Various combinations possible, e.g. for strain relief of cables and wires
- Free of halogens and cadmium
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C
- **Content of delivery:** Ball Joint Sleeve, 4 PT screws

- 高级合成聚酰胺6制成
- 提高电缆组件的灵活性
- 在自动化应用中，为电缆导向提供最佳的解决方案
- 由于降低了机械应力，从而延长了软管和电缆的使用寿命
- 易于安装和替换
- 可行性组合选择，例如：适用于电缆和电线的消除应力
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C；短期温度：+160°C；
- 包含配件：球节套筒，4个PT型螺钉

KE ball joint termination

The KE ball joint termination used in the BSH tube clamp offers highest flexibility at the end of the installation. Due to reduced mechanical stress it helps to additionally relief conduit and cables. A grommet can be inserted directly into this termination to hold and strain relief the cables.

KE 球节端件

安装在BSH管夹的球节端件，在末端安装时提高灵活性。由于降低了机械压力来帮助减少对软管和电缆的应力。分线垫圈可被直接插入端口来控制并拉紧电缆，减少应力。

Order No. black 订货号 黑色	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	PT screws PT 型螺钉	Outside diameter 外径	Dimensions width 宽度
BKE-R70G	70	80	KA 50 x 20	122.0	128.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40515
要了解详细技术规格，请索取“技术数据表” DB-Nr.40515

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Free of halogens and cadmium
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C
- 高级合成聚酰胺6制成
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C；短期温度：+160°C；

GS grommet half-shell

The GS half-shells for grommet assembly with strain relief are used as insert to the SH tube clamp to fix a loom of cables of special dimensions.

GS 垫圈式瓦形件

GS垫圈用消除应力瓦形件应用于SH管夹上，用以固定不同大小特殊规格的电缆。

Order No. black 订货号 黑色	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Conduit profile 软管 波纹	Outside diameter 外径	Dimensions width 宽度
BGS-R70	70	80	G	105.0	45.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40507
要了解详细技术规格，请索取“技术数据表” DB-Nr.40507

unit = mm
单位 = mm

BKS grommets

The BKS grommets are manufactured from special polymeric materials used for arrangement and strain relief of hoses and leads in cable assemblies.

BKS 分线垫圈

消除应力分线垫圈，配合BGS垫圈式瓦型件，用于设置软管内电线电缆组装。

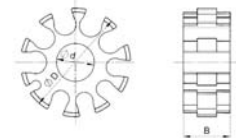
Order No. black 订货号 黑色	Fits to conduit size NW 适配软管 标称内径	Dimensions in mm			Weight kg/100pcs 重量 公斤/每100个
		B	Ød 尺寸	ØD	
BKS-R70/00	70	35	17.5	81.5	13.8
BKS-R70/02	70	35	13.2	81.5	10.7
BKS-R70/03	70	35	17.5	81.5	16.2
BKS-R70/04	70	30	17.5	81.5	10.2
BKS-R70/05	70	30	28.0	81.5	8.8

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40507
要了解详细技术规格，请索取“技术数据表”DB-Nr.40507

unit = mm
单位 = mm

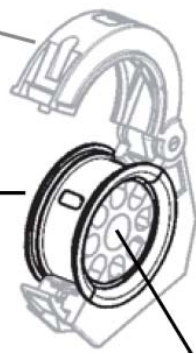


- Special polymer
- Free of halogens and cadmium
- Temperature range: -40°C to +105°C; Shot-term: +160°C
- 特殊聚合物
- 不含卤素和镉
- 温度范围: -40°C 至 +105°C; 短期温度: +160°C;

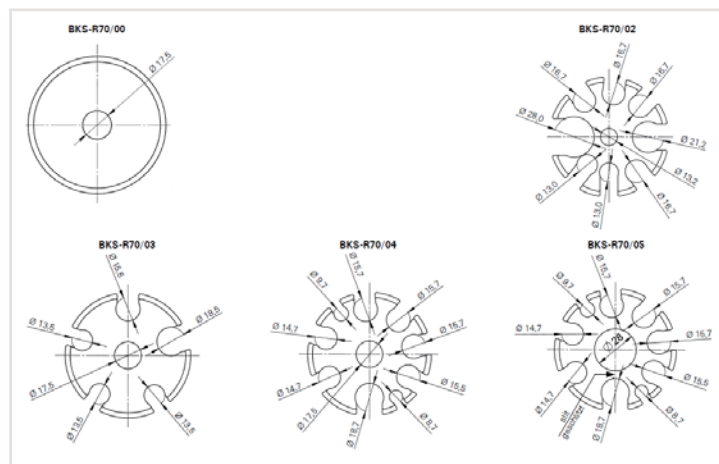


BSH tube clamp
BSH 管夹

BGS grommet half-shell
BGS 垫圈式瓦形件



BKS grommet
BKS 垫圈





- Black anodized aluminium
- Robust construction
- Sealed high quality bearing with minimal play
- Allows rotation of cable pack supports
- Suitable for high mechanical forces in all assembly positions
- BSH tube clamp easy to install on the bearing with central screw
- Cylinder pin prevents twisting of the clamp on the bearing
- **Temperature range:** -50°C to +105°C
- **Content of delivery:**
Swivel Base with transition piece, 1 allen screw

- 黑色阳极化铝
- 坚固结构
- 带最小游隙的高质量密封轴承
- 允许管线包组件旋转
- 适用于在所有装配位置中相对较高的机械力要求
- 利用附上螺钉容易安装BSH型系列管夹在轴承上
- 圆柱销防止管夹在轴承上扭曲
- 温度范围: -50°C 至 +105°C
- 包含配件:
带有运转器设计的旋转底座, 1个螺丝钉

DKLK swivel base

In automation and robotic applications.

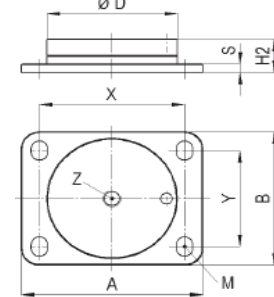
DKLK 带有运转器设计的旋转底座

应用于自动化和机器人方面。

Order No. black 订货号 黑色	Fits to 适配	Dimensions length 长度	Dimensions width 宽度	Dimensions height 高度	Fits to screws 适配螺钉 尺寸Z	Fits to screws 适配螺钉 尺寸M
DKLK-R56X56	BSH-R29/BSH-R36/BSH-R48	56	56	21.5	M 8	M 6
DKLK-R100X80	BSH-R56/BSH-R70	100	80	20.0	M10	M 8
DKLK-R100X80/01	BSH-R29/BSH-R36/BSH-R48	100	80	23.0	M 8	M 8

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40503
要了解详细技术规格, 请索取“技术数据表” DB-Nr.40503

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Increases the life time of moving conduits
- Excellent chafing characteristics
- Very good chemical properties
- Free of halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- **Temperature range:** -40°C to +105°C; **Shot-term:** +160°C
- **Content of delivery:** Abrasion protection sleeves with assembling screws

- 高级合成聚酰胺6
- 延长移动软管的使用寿命
- 优秀的防摩擦性
- 非常良好的化学性能
- 不含卤素和镉
- 适用软管类型-细波纹 (T) 和粗波纹 (G)
- 温度范围: -40°C 至 +105°C; 短期温度: +160°C
- 包含配件: 配螺钉的防摩擦保护套

SS/SV abrasion protection sleeve

The SV and SS sleeves are made from specially modified polyamide. The material is self-extinguishing, free of halogens and cadmium and offers excellent chafing properties. The SV sleeve can also be used as connector and repair sleeve.

SS/SV 摩擦护套

SV/SS摩擦护套由特殊改良聚酰胺制造。该材料为自熄灭, 不含卤素和镉, 具有优越的耐磨性能。其中BSV型既可用作摩擦护套, 又可用于作连接护套或修理护套。

Order No. black 订货号 黑色	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Conduit profile 软管 波纹	Outside diameter 外径	Dimensions width 宽度
BSS-23	23	25	T + G	49.0	26.0
BSS-29	29	32	T + G	55.0	26.0
BSS-36	36	40	T + G	63.0	30.0
BSS-48	48	50	T + G	75.0	30.0
BSS-56G	56	68	G	90.0	33.0
BSV-70G	70	80	G	108.0	60.0

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40225 / 40220

要了解详细技术规格, 请索取“技术数据表” DB-Nr.40225 / 40220

unit = mm
单位 = mm

AS conduit support sleeve

These AS conduit support sleeves increase the maximum pull-out strength values significantly. Specially suitable for soft PMAFLEX conduit type PUE with PMAFLX connectors or PMACLIP system supports.

AS 软管支撑护套

这种AS型的护套可以在允许的范围内增加抗拉强度到最大值。特别适合PMAFLEX系列的PUE软管，PMAFIX系列管接头或PMACLIP系列的支撑夹。

Order No. black	Fits to conduit size NW	Fits to conduit size metric	Conduit profile	Inside / Outside diameter	Dimensions width	MOQ(pcs)
订货号 黑色	适配软管规格 标称内径	适配软管 公制	软管 波纹	内径 / 外径	宽度	最小 起订量
BAS-29T	29	32	T	25.5 / 30.0	34.0	800
BAS-36T	36	40	T	33.5 / 38.0	47.0	—
BAS-48T	48	50	T	44.0 / 50.0	47.0	—

Profiles-fine (T) ; Profiles-coarse (G) / 细波纹 (T) ; 粗波纹 (G)
For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40215
要了解详细技术规格，请索取“技术数据表”DB-Nr.40215

unit = mm
单位 = mm

标记为 # 的产品有最小起订量 (MOQ)



- High-grade formulated polyamide 6
- Very good chemical properties
- Free of halogens and cadmium
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级合成聚酰胺6
- 非常良好的化学性能
- 不含卤素和镉
- 温度范围：-40°C 至 +105°C; 短期温度：+160°C

ES internal conduit support sleeve

Reduces the end deformation of soft conduit types thus increasing the pull out retention forces of the conduits. specially suitable for SH tube clamps and GN strain relief half-shells.

ES 套管内套支撑

减少软管末端的变形以增强其抗拉强度。特别适配于SH管夹和GN消除应力瓦形件。

Order No. black	Fits to conduit size NW	Fits to conduit size metric	Conduit profile	Inside/Outside diameter	Dimensions width
订货号 黑色	适配软管 标称内径	适配软管 公制	软管 波纹	内径/外径	宽度
BES-48G	48	50	G	43.5 / 51.0	18.0
BES-70G	70	80	G	63.0 / 80.0	23.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.40210
要了解详细技术规格，请索取“技术数据表”DB-Nr.40210

unit = mm
单位 = mm



- High-grade formulated polyamide 6
- Very good chemical properties
- Free of halogens and cadmium
- Fits conduit profile -coarse(G)
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级合成聚酰胺6
- 非常良好的化学性能
- 不含卤素和镉
- 适用软管类型-粗波纹 (G)
- 温度范围：-40°C 至 +105°C; 短期温度：+160°C;



- Galvanized steel
- Elastomer profile (EPDM), free from halogens
- Smooth connection to PMAFLEX corrugated conduits
- Good ozone and ageing resistance
- Temperature range: -40°C to +120°C;

- 钢制镀锌
- 人造橡胶剖面 (EPDM), 不含卤素
- 平滑固定PMAFLEX软管
- 良好的臭氧和耐老化性能
- 温度范围: -40°C 至 +120°C

SGS tube clamps

These tube clamps used for mounting conduits are produced from galvanized steel according to DIN 3016. The elastomer which is free of halogen, offers additional protection to the PMAFLEX conduit.

SGS 管夹

用于软管安装的这种管夹, 是用符合DIN3016要求的镀锌钢制造而成。不含卤素的弹性件, 为PMAFLEX软管提供外加保护。

Order No.	Fits to conduit size		Dimensions	Dimensions	Dimensions	Fixing
订货号	NW	metric	width	height	thickness	screw
	标称内径	公制	尺寸宽度	尺寸高度	尺寸厚度	适配螺钉
SGS-36	36	40	80.0	48.0	19.0	2 x M6
SGS-48	48	50	94.0	58.0	19.0	2 x M6
SGS-56	56	68	118.0	72.0	24.0	2 x M8
SGS-70	70	80	130.0	85.0	24.0	2 x M8

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.60021
要了解详细技术规格, 请索取“技术数据表” DB-Nr.60021

unit = mm
单位 = mm



- High-grade, specially formulated polyamide 6
- One-piece design
- Integrated rib provides axial strain relief
- Allows turning of the conduit thus avoiding torsion stresses
- Pre-fixation on the conduit possible
- Allows solid fixation with two screws
- Self-extinguishing
- Free from halogen and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- No corrosion
- Temperature range: -40°C to +105°C; Shot-term: +160°C

- 高级, 特殊配方聚酰胺6制成
- 一体式设计
- 集成的肋状凸起设计, 有效消除轴向应力
- 允许软管径向运动避免产生应力
- 可以预先安装在软管上
- 用两个螺钉固定本体
- 自熄灭性好
- 不含卤素和镉
- 适用软管类型-细波纹 (T) 和粗波纹 (G)
- 防腐蚀
- 温度范围: -40°C 至 +105°C; 短期温度: +160°C;

GH tube clamps

These tube clamps are used for the mounting of PMA conduits with large nominal widths. The integrated rib allows an optimal strain relief and thus avoids the movement of the conduit in axial direction. Due to the rib the clamp can also be pre-mounted on the conduit. This allows easy handling during installation.

GH 管夹

这种管夹通常用于在大口径PMA软管的安装上, 结合理想的消除应力设计, 避免软管轴向运动, 管夹可以预先安装在软管上, 使安装工作简易化。

Order No.	Fits to conduit size		Dimensions	Dimensions	Dimensions	Fixing	MOQ(pcs)
订货号	NW	metric	width	height	thickness	screw	最小起订量
	标称内径	公制	尺寸宽度	尺寸高度	尺寸厚度	适配螺钉	灰色S
# GH-23	23	25	58.0	31.5	16.0	2 x M5	2100
# GH-29	29	32	70.0	37.5	19.0	2 x M6	1000
# GH-36	36	40	80.0	46.0	24.0	2 x M6	600
# GH-48	48	50	94.0	58.5	24.0	2 x M6	600
# GH-56	56	68	118.0	72.0	26.0	2 x M8	500
# GH-70	70	80	130.0	85.0	30.0	2 x M8	480

* = Replace with "B" to order black or "S" to order grey / * = "B" 订黑色或"S" 订灰色

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.60025

要了解详细技术规格, 请索取“技术数据表” DB-Nr.60025

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm

GG flange straight

GG 直型法兰



For cable protection systems in a wide range of applications.

在电缆保护系统中被广泛地应用。

Order No. IP50, black 订货号 黑色	Order No. IP50, grey 订货号 灰色	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Dimensions width 尺寸 宽	Dimensions height 尺寸 高	Dimensions diameter 尺寸 直径
BGG-56	SGG-56	56	68	82.0	42.0	97.0
BGG-70	SGG-70	70	80	97.0	48.0	114.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.37000
要了解详细技术规格, 请索取“技术数据表”DB-Nr.37000

unit = mm
单位 = mm



- High-grade, specially formulated polyamide 6
- Flange seal FG04 made from EPDM
- Flange seal FG04/01 made from NBR, on request
- Very high impact strength
- Vibration-proof connection to PMAFLEX conduits
- High conduit pull-out strength
- Ingress protection: IP50 (IP65 with conduit seal ring SG03)
- Very good chemical properties
- Free from halogens and cadmium
- Temperature range: -40°C to +105°C
- Content of delivery: Flange part, fixation clamps (incl. 2 screws), flange seal (FG04 or FG04/01), conduit seal ring (SG03, optional for IP65)

- 高级, 特殊配方聚酰胺6
- 法兰密封圈FG04由EPDM制成
- 法兰密封圈FG04/01由NBR制成, 按需要提供
- 非常高的抗冲击强度
- 配合PMAFLEX软管使用具有很好的防震作用
- 高强度的抗拉能力
- 防护等级: IP50 (使用软管密封圈SG03达到IP65)
- 非常好的化学性能
- 不含卤素和镉
- 温度范围: -40°C 至 +105°C
- 包装配件: 法兰主体, 固定夹 (包含两螺丝), 法兰密封圈 (FG04或FG04/01), 软管密封圈 (选配SG03. 可达IP65)

GO flange, 90° elbow

GO 90° 度法兰弯头



For cable protection systems in a wide range of applications.

在电缆保护系统中被广泛地应用。

Order No. black 订货号 黑色	Order No. grey 订货号 灰色	Fits to conduit size NW 适配软管 标称内径	Fits to conduit size metric 适配软管 公制	Dimensions width 尺寸 宽度	Dimensions height 尺寸 高度	Dimensions length 尺寸 长度
BGO-56	SGO-56	56	68	82.0	101.0	122.0
BGO-70	SGO-70	70	80	97.0	115.0	142.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.37010
要了解详细技术规格, 请索取“技术数据表”DB-Nr.37010

unit = mm
单位 = mm



- High-grade, specially formulated polyamide 6
- Flange seal FG04 made from EPDM
- Flange seal FG04/01 made from NBR
- Very high impact strength
- Vibration-proof connection to PMAFLEX conduits
- High conduit pull-out strength
- Ingress protection: IP50 (IP65 with conduit seal ring SG03)
- Very good chemical properties
- Free from halogens and cadmium
- Temperature range: -40°C to +105°C
- Content of delivery: Flange part, fixation clamps (incl. 2 screws), flange seal (FG04 or FG04/01), conduit seal ring (SG03, optional for IP65)

- 高级, 特殊配方聚酰胺6
- 法兰密封圈FG04由EPDM制成
- 法兰密封圈FG04/01由NBR制成
- 非常高的抗冲击强度
- 配合PMAFLEX软管使用具有很好的防震作用
- 高强度的抗拉能力
- 防护等级: IP50 (使用软管密封圈SG03达到IP65)
- 非常好的化学性能
- 不含卤素和镉
- 温度范围: -40°C 至 +105°C
- 包装配件: 法兰主体, 固定夹 (包含两螺丝), 法兰密封圈 (FG04或FG04/01), 软管密封圈 (选配SG03. 可达IP65)

Tube clamp and half-shell 管夹和瓦形件

	Tube clamp 管夹	Half-shells 瓦形件			Swivel base 旋转底座
		Slide half-shell 滑动瓦形件		Strain relief half-shells 消除应力瓦形件	
	BSH	BGN	BFE	BGN	DKLK
					
Conduit size 软管规格	Tube clamp 管夹	Slide half-shell 滑动瓦形件	Gliding Bush 滑动套筒	Strain relief half-shell 消除应力瓦形件	Swivel base 旋转底座
23	BSH-R23			BGN-S23*	DKLK-R56x56
29	BSH-R29	BGN-R29		BGN-S29*	DKLK-R56x56
36	BSH-R36	BGN-R36		BGN-S36*	DKLK-R56x56
48	BSH-R48	BGN-R48		BGN-S48*	DKLK-R56x56
56	BSH-R56	BGN-R56		BGN-S56G	DKLK-R100x80
70	BSH-R70	BGN-R70	BFE-R70	BGN-R70G	DKLK-R100x80
					
		BSH + BGN	SH + FE	BSH + BGN	BSH + DKLK

Tube clamp and ball joint sleeve 管夹和球节套筒

	BSH	BTK	BSSK; BTK + BTR + (BGN)	DKLK
				
Conduit size 软管规格	Tube clamp 管夹	Slide half-shell 球节套筒	Strain relief insert 消除应力插入件	Swivel base 旋转底座
23	BSH-R23		BSSK-23GT	
29	BSH-R29		BSSK-29GT	DKLK-R56x56
36	BSH-R36		BSSK-36GT	DKLK-R56x56
48	BSH-R48		BSSK-48GT	DKLK-R56x56
56	BSH-R56		BSSK-56G	DKLK-R56x56
56	BSH-R70	BTK-R70	BTK-R70 + BTR-R70G + BGN-R56G/70G	DKLK-R100x80
70	BSH-R70	BTK-R70	BTK-R70 + BTR-R70G	DKLK-R100x80
			 	
		BSH + BTK	BSH + BSSK BSH + BTK + BTR + (BGN)	BSH + DKLK

Conduit size 软管规格	Tube clamp 管夹	Conduit size 软管规格	Ball joint termination 球节端件	Swivel base 旋转底座
56	BSH-R70	56	BKE-R70G + BGN-R56G/70G	DKLK-R100x80
70	BSH-R70	70	BKE-R70G	DKLK-R100x80
			 	
			BSH + BKE + (BGN) BKE	BSH + DKLK

* Replace with "T" to order fine profile or "G" to order coarse profile

* = "T" 代表细波纹或 "G" 代表粗波纹

Notes 备注