

Connector, Metric/PG, with strain relief (Pflitsch UNI Dicht sealing insert) and metal thread, IP68 / IP69
管接头，公制/PG制，消除应力（Pflitsch UNI Dicht 密封插入件）和金属螺纹，IP68 / IP69



■ Sealing system 密封系统

Graduation of the clamping ranges P1, P2, P3 etc. in the UNI Dicht sealing system achieves optimal transfer of the clamping force to the cable.

Distribution of the pressure through the sealing insert avoids damage to the cable.

At the same time optimal sealing and strain relief are provided.

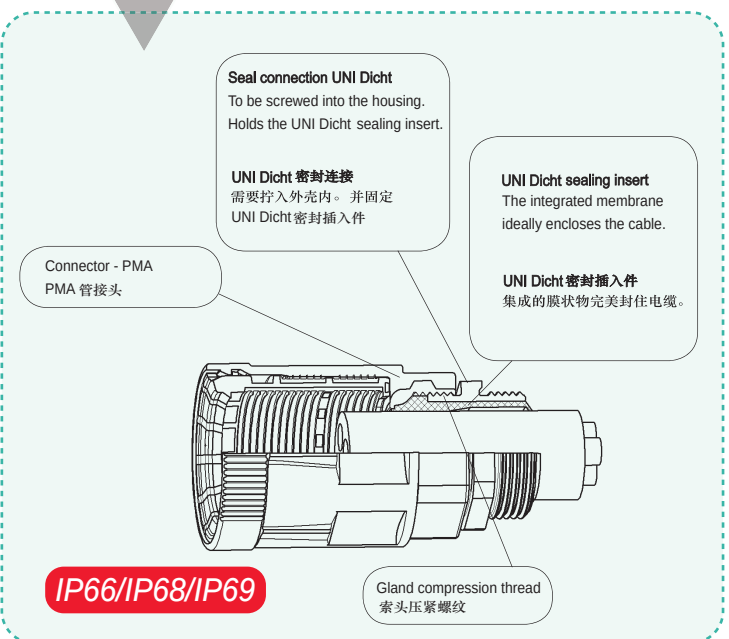
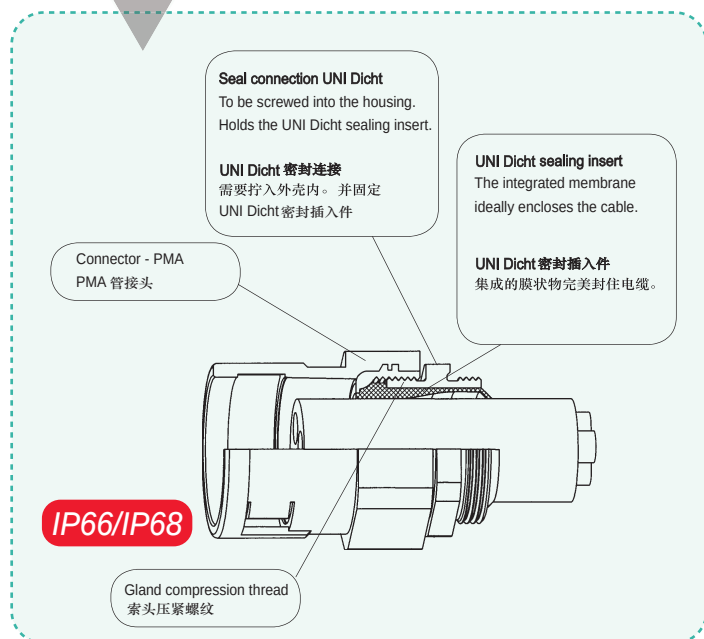
Even when not completely tightened, the sealing insert membrane offers sealing to IP54.

UNI Dicht密封系统中的夹紧范围分别为P1, P2, P3等，此分级实现了应用到电缆夹紧力的最佳传递。

通过密封插入件平均分散相关压力，从而避免了对电缆的损坏。

同时提供最佳的密封和消除应力效果。

即使没有完全拧紧，密封插入件上的薄膜也能达到IP54等级。



Sealing Recommendations: PMA strain relief connectors using Pflitsch cable gland elements

密封推荐：使用 Pflitsch 电缆索头密封元件的PMA消除应力管接头

- Many factors can affect the sealing performance of Pflitsch cable gland elements integrated into PMA connectors.
很多因素都会影响到PMA管接头中的Pflitsch电缆索头密封元件的密封性能。
- If a bundle of cables is clamped within a single hole sealing insert, reduced sealing performance may result.
如将一束电缆夹在单孔密封插入件内，则密封性能将会降低。
- If a cable with a diameter out of the recommended clamping range is used, reduced sealing performance may result .
如果单根电缆的直径超过推荐的夹紧范围，则密封性能将会降低。
- If a cable which is not perfectly round is clamped, reduced sealing performance may result.
如夹紧的不是完全圆形（变形）的单根电缆，则密封性能将会降低。

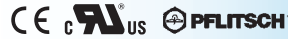
▪ In the cases mentioned above:

如上述情况下：

1. It cannot be guaranteed that water will be prevented from entering the cable protection system from outside via the gland compression thread.
它不能保证水可以被阻止从外部通过索头压紧螺纹部分进入电缆保护系统。
 2. Water may pass through the gland compression thread, along the cable, into other parts of the electrical system.
水可能会穿过索头压紧螺纹，并沿着电缆进入电气系统的其他部分。
- A sealing compound can be used on the gland compression thread to prevent water entering the cable protection system from outside.
在索头压紧螺纹上可使用密封混合物以防止水从外部进入电缆保护系统。
 - Please refer to our recommendation for adhesives and sealing agents. (see chapter 14)
请参考我司关于如何选择粘合剂和密封剂的建议。(请查阅第14章)

- Please follow the tightening torque recommendations. Over tightening of the gland compression thread can cause damage.
请遵循拧紧扭矩建议。过度拧紧索头压紧螺纹会造成损坏。
- If several cables / wires are used within a Pflitsch cable gland element, a multiple sealing insert (MDE) has to be considered for best sealing and clamping performance.
如果在Pflitsch电缆索头元件内使用多根电缆/电线，则一定要应考虑使用多孔密封插入件 (MDE)，从而达到最佳密封和夹紧性能。
- Please note that the temperature range quoted by Pflitsch for the sealing inserts (- 40°C ... + 135 °C) is different to the temperature range for the PMA connector body (- 40°C ... + 105°C)
请注意：Pflitsch 密封插入件的工作温度范围：- 40°C ... + 135 °C；不同于PMA管接头的工作温度范围：- 40°C ... + 105°C

IP66/IP68/IP69



KNZ straight,
strain relief, metric, metal

In railway vehicle construction for carriage
connections and heavy machine construction.

Furthermore, these connectors can especially be used where
damp and dry areas have to be separated.

KNZ 直型,
消除应力, 公制, 金属螺纹

应用于铁路机车车辆连接和重型机械的制造。
此外, 这些管接头可被特别用于间隔干湿区域。

Order No. black 订货号 黑色	Order No. insert 订货号 插入件	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度
NKNZ-M120/P1	EK150/p7	M12x1.5	10	12	4.0-6.5	5.0	53.5
NKNZ-M120/P2	EK150/p8	M12x1.5	10	12	5.0-8.0	5.0	53.5
NKNZ-M120/P3	EK150/p9	M12x1.5	10	12	6.5-9.5	5.0	53.5
NKNZ-M160/P1	E150/p7	M16x1.5	10	12	4.0-6.5	6.0	54.5
NKNZ-M160/P2	E150/p8	M16x1.5	10	12	5.0-8.0	6.0	54.5
NKNZ-M160/P3	E150/p9	M16x1.5	10	12	6.5-9.5	6.0	54.5
NKNZ-M162/P4	EK 151/p11	M16x1.5	12	16	7.0-10.5	6.5	60.5
NKNZ-M202/P1	E152/p7	M20x1.5	12	16	4.0-6.5	6.5	60.5
NKNZ-M202/P3	E152/p9	M20x1.5	12	16	6.5-9.5	6.5	60.5
NKNZ-M202/P4	E152/p11	M20x1.5	12	16	7.0-10.5	6.5	60.5
NKNZ-M207/P3	E152/p9	M20x1.5	17	20	6.5-9.5	6.5	66.5
NKNZ-M207/P4	E152/p11	M20x1.5	17	20	7.0-10.5	6.5	66.5
NKNZ-M207/P5	E152/p13	M20x1.5	17	20	9.0-13.0	6.5	66.5
NKNZ-M257/P4	E153/p11	M25x1.5	17	20	7.0-10.5	7.5	67.5
NKNZ-M257/P5	E153/p13	M25x1.5	17	20	9.0-13.0	7.5	67.5
NKNZ-M257/P6	E153/p16	M25x1.5	17	20	11.5-15.5	7.5	67.5
NKNZ-M253/P5	EK154/p13	M25x1.5	23	25	9.0-13.0	7.5	75.0
NKNZ-M253/P6	EK154/p16	M25x1.5	23	25	11.5-15.5	7.5	75.0
NKNZ-M323/P2	E154/p13	M32x1.5	23	25	9.0-13.0	8.0	76.0
NKNZ-M323/P4	E154/p18	M32x1.5	23	25	14.0-18.0	8.0	76.0
NKNZ-M323/P5	E154/p20	M32x1.5	23	25	17.0-20.5	8.0	76.0
NKNZ-M329/P2	EK155/p18	M32x1.5	29	32	14.0-18.0	8.0	83.0
NKNZ-M329/P3	EK155/p20	M32x1.5	29	32	17.0-20.5	8.0	83.0
NKNZ-M329/P4	EK155/p25	M32x1.5	29	32	20.0-25.0	8.0	83.0
NKNZ-M409/P1	E155/p16	M40x1.5	29	32	11.5-15.5	8.0	83.0
NKNZ-M409/P2	E155/p18	M40x1.5	29	32	14.0-18.0	8.0	83.0
NKNZ-M409/P3	E155/p20	M40x1.5	29	32	17.0-20.5	8.0	83.0
NKNZ-M409/P4	E155/p25	M40x1.5	29	32	20.0-25.0	8.0	83.0
NKNZ-M409/P5	E155/p28	M40x1.5	29	32	24.0-28.0	8.0	83.0
NKNZ-M406/P1	E156/p25HF	M40x1.5	36	40	20.0-25.0	9.0	87.5
NKNZ-M406/P2	EK156/p28	M40x1.5	36	40	24.0-28.0	9.0	87.5
NKNZ-M406/P4	EK156P34	M40x1.5	36	40	29.0-34.0	9.0	87.5
NKNZ-M406/P5	EK156P36	M40x1.5	36	40	32.0-36.0	9.0	87.5
NKNZ-M506/P1	E156/p32	M50x1.5	36	40	27.0-32.0	10.0	90.0
NKNZ-M506/P3	E156/p36	M50x1.5	36	40	32.0-36.0	10.0	90.0
NKNZ-M508/P2	E157/p36HF	M50x1.5	48	50	32.0-36.0	10.0	100.0
NKNZ-M508/P3	E157/p40HF	M50x1.5	48	50	36.0-40.0	10.0	100.0
NKNZ-M638/P1	E158/pm1x35	M63x1.5	48	50	32.0-35.0	10.0	100.0
NKNZ-M638/P2	E158/p44	M63x1.5	48	50	39.0-44.0	10.0	100.0

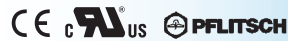
For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35312
要了解详细技术规格, 请索取 "技术数据表" DB-Nr.35312

unit = mm
单位 = mm



- Fitting: Specially modified polyamide 6
- Thread: nickel-plated brass
- Locking and sealing element made from specially formulated, halogen free polyamide 6 and crosslinked polyester elastomer
- Pflitsch UNI Dicht sealing insert: TPE-V
- IP69 even in dynamic applications
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 /10 bar).
- Self-extinguishing, free from halogens and cadmium
- Very high impact resistance, even at very low temperatures.
- Easy push-in assembly for maximum installation reliability
- Screwdriver required for dismantling, impeding unauthorised or accidental opening
- Excellent conduit pull-out strength
- High thread and system connection strengths
- Space-saving dismantling
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- Temperature range: -50°C to +105°C; Short-term: +160°C
- Content of delivery: Fitting body with sealing element, sealing insert, thread seal of OR
- 外壳: 由特别改良聚酰胺6制成
- 螺纹: 黄铜镀镍
- 锁紧和密封元件由特殊配方, 无卤素聚酰胺6和交叉联接式多酯弹性体制成
- Pflitsch UNI Dicht密封插入件: TPE-V
- IP69, 即使在动态应用条件下
- 电缆夹紧处防护等级可以达到IP68 (10bar)
- 自熄灭性好, 不含卤素和镉
- 极好的抗冲击强度, 即使在非常低的温度。
- 推入式的简易安装, 可达到最可靠性安装
- 需螺丝刀拆卸, 防止擅自或意外开启
- 优秀的抗拉能力
- 高强度的螺纹和系统连接
- 采用节省空间及易于拆卸的设计
- 非常好的化学性能
- 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: -50°C 至 +105°C; 短期温度: +160°C
- 包装配件: 管接头, 密封弹性体, 密封插入件和螺纹密封圈 - O型圈

IP66/IP68/IP69

**KNZ** straight,
strain relief, metric, metal, longIn railway vehicle construction for carriage
connections and heavy machine construction.Furthermore, these connectors can especially be used where
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应用于铁路机车车辆连接和重型机械的制造。

此外, 这些管接头可被特别用于间隔干湿区域。

Order No. black 订货号 黑色	Order No. insert 订货号 插入件	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度	MOQ (pcs) 最小起订量 黑色
NKNZ-M160/P1-L	E150p7	M16x1.5	10	12	4.0 - 6.5	15	63.5	-
NKNZ-M160/P2-L	E150p8	M16x1.5	10	12	5.0 - 8.0	15	63.5	待定
NKNZ-M160/P3-L	E150p9	M16x1.5	10	12	6.5 - 9.5	15	63.5	-
NKNZ-M202/P1-L	E152p7	M20x1.5	12	16	4.0 - 6.5	15	69.0	-
NKNZ-M202/P3-L	E152p9	M20x1.5	12	16	6.5 - 9.5	15	69.0	-
NKNZ-M202/P4-L	E152p11	M20x1.5	12	16	7.0 - 10.5	15	69.0	-
NKNZ-M207/P3-L	E152p9	M20x1.5	17	20	6.5 - 9.5	15	75.0	-
NKNZ-M207/P4-L	E152p11	M20x1.5	17	20	7.0 - 10.5	15	75.0	待定
NKNZ-M207/P5-L	E152p13	M20x1.5	17	20	9.0 - 13.0	15	75.0	-
NKNZ-M257/P5-L	E153p13	M25x1.5	17	20	9.0 - 13.0	15	75.0	-
NKNZ-M257/P6-L	E153p16	M25x1.5	17	20	11.5 - 15.5	15	75.0	-
NKNZ-M323/P1-L	E154p11	M32x1.5	23	25	7.0 - 10.5	15	83.0	-
NKNZ-M323/P2-L	E154p13	M32x1.5	23	25	9.0 - 13.0	15	83.0	-
NKNZ-M323/P4-L	E154p18	M32x1.5	23	25	14.0 - 18.0	15	83.0	-
NKNZ-M323/P5-L	E154p20	M32x1.5	23	25	17.0 - 20.5	15	83.0	-
NKNZ-M329/P2-L	E155p18	M32x1.5	29	32	14.0 - 18.0	15	90.0	-
NKNZ-M329/P3-L	E155p20	M32x1.5	29	32	17.0 - 20.5	15	90.0	-
NKNZ-M329/P4-L	E155p25	M32x1.5	29	32	20.0 - 25.0	15	90.0	-
NKNZ-M409/P3-L	E155p20	M40x1.5	29	32	17.0 - 20.5	15	90.0	待定
NKNZ-M409/P4-L	E155p25	M40x1.5	29	32	20.0 - 25.0	15	90.0	-
NKNZ-M409/P5-L	E155p28	M40x1.5	29	32	24.0 - 28.0	15	90.0	-
NKNZ-M506/P1-L	E156p32	M50x1.5	36	40	27.0 - 32.0	15	95.0	待定
NKNZ-M506/P3-L	E156p36	M50x1.5	36	40	32.0 - 36.0	15	95.0	-
NKNZ-M508/P2-L	E157p36HF	M50x1.5	48	50	32.0 - 36.0	15	105.0	-
NKNZ-M508/P3-L	E157p40HF	M50x1.5	48	50	36.0 - 40.0	15	105.0	-
NKNZ-M638/P1-L	E158p1x35	M63x1.5	48	50	32.0 - 35.0	15	105.0	待定
NKNZ-M638/P2-L	E158p44	M63x1.5	48	50	39.0 - 44.0	15	105.0	-

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35313

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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

- Fitting: Specially modified polyamide 6
- Thread: nickel-plated brass
- Locking and sealing element made from specially formulated, halogen free polyamide 6 and crosslinked polyester elastomer
- Pflitsch UNI Dicht sealing insert: TPE-V
- IP69 even in dynamic applications
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 /10 bar).
- High thread and system connection strengths
- Very high impact resistance, even at very low temperatures.
- Easy push-in assembly for maximum installation reliability
- Screwdriver required for dismantling, impeding unauthorised or accidental opening
- Excellent conduit pull-out strength
- Space-saving dismantling
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- Temperature range: -50°C to +105°C; Short-term: +160°C
- Content of delivery: Fitting body with sealing element, sealing insert, thread seal of OR
- 外壳: 由特别改良聚酰胺6制成
- 螺纹: 黄铜镀镍
- 锁紧和密封元件由特殊配方, 无卤素聚酰胺6和交叉联接式多酯弹性体制成
- Pflitsch UNI Dicht密封插入件: TPE-V
- IP69, 即使在动态应用条件下
- 电缆夹紧处防护等级可以达到IP68(10巴)
- 高强度的螺纹和系统连接
- 极好的抗冲击强度, 即使在非常低的温度。
- 推入式的简易安装, 可达到最可靠性安装
- 需螺丝刀拆卸, 防止擅自或意外开启
- 优秀的抗拉能力
- 采用节省空间及易于拆卸的设计
- 非常好的化学性能
- 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: -50°C 至 +105°C; 短期温度: +160°C
- 包装配件: 管接头, 密封弹性体, 密封插入件和螺纹密封圈 - O型圈



- Fitting: specially modified polyamide 6
- Thread: nickel-plated brass
- Locking and sealing element made from specially formulated, halogen free polyamide 6 and crosslinked polyester elastomer
- Pflitsch **blueglobe**® sealing insert made from TPE
- Very high impact resistance, even at very low temperatures
- **With integrated strain relief and excellent ingress protection at the cable (up to IP68 / 15 bar)**
- **blueglobe**® sealing insert provides reliable strain relief without damaging the cable
- High thread and system connection strengths
- Easy push-in assembly for maximum installation reliability
- Screwdriver required for dismantling, impeding unauthorised or accidental opening
- Space-saving dismantling
- Excellent conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- **temperature range:** -50°C to +105°C; **Short-term:** +160°C
- **Content of delivery:** Fitting body with sealing element, sealing insert, thread seal of OR

- 外壳：特殊改良聚酰胺6制成
- 螺纹：黄铜镀镍
- 锁紧和密封元件由特殊配方，无卤素聚酰胺6和交叉联接式多酯弹性体制成
- Pflitsch **blueglobe**® 密封插入件：TPE
- 非常好的抗冲击强度，即使在非常低的温度
- **结合消除应力设计，在电缆入口处提供最佳的保护（最高可达IP68/15巴）**
- 在不损坏电缆的情况下，**blueglobe**® 密封插入件提供可靠的应力消除作用
- 高强度的螺纹和系统连接
- 简单的推入式组装方法，可达到安装的最可靠性
- 需螺丝刀拆卸，防止擅自或意外开启
- 采用节省空间及易于拆卸的设计
- 极高抗拉强度
- 非常好的化学性能
- 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：-50°C 至 +105°C；短期温度：+160°C
- 包装配件：管接头，密封弹性体，密封插入件和螺纹密封圈 - O型圈

IP66/IP68/IP69

CE **blueglobe**® PFLITSCH

KNZ straight, strain relief, metric, metal

In railway vehicle construction for inter-carriage connections and heavy machine construction. Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

KNZ 直型，消除应力，公制，金属螺纹

应用于铁路机车建设的车厢连接和重型机械的制造。此外，这些管接头可被特别用于间隔干湿区域。

Order No. black 订货号 黑色	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度	MOQ (pcs) 最小起订量 黑色
# NKNZ-M207/PBG1	M20x1.5	17	20	5.0 - 9.0	6.5	75.0	待定
# NKNZ-M207/PBG2	M20x1.5	17	20	9.0 - 14.0	6.5	75.0	待定

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unit = mm
单位 = mm

IP66/IP68/IP69



KWZ 90° elbow,
strain relief, metric, metal

KWZ 90° 弯头,
消除应力, 公制, 金属螺纹

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Furthermore, these connectors can especially be used where
damp and dry areas have to be separated.

应用于铁路机车车辆和重型机械的制造。
此外, 这些管接头可被特别用于间隔干湿区域。

Order No. black 订货号 黑色	Order No. insert 订货号 插入件	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度	MOQ (pcs) 最小起订量 黑色
NKWZ-M160/P1	E150/p7	M16x1.5	10	12	4.0-6.5	8.0	70.0	-
# NKWZ-M160/P2	E150/p8	M16x1.5	10	12	5.0-8.0	8.0	70.0	待定
# NKWZ-M160/P3	E150/p9	M16x1.5	10	12	6.5-9.5	8.0	70.0	待定
NKWZ-M202/P1	E152/p7	M20x1.5	12	16	4.0-6.5	8.0	81.5	-
# NKWZ-M202/P3	E152/p9	M20x1.5	12	16	6.5-9.5	8.0	81.5	待定
NKWZ-M202/P4	E152/p11	M20x1.5	12	16	7.0-10.5	8.0	81.5	-
# NKWZ-M207/P3	E152/p9	M20x1.5	17	20	6.5-9.5	8.0	87.0	待定
NKWZ-M207/P4	E152/p11	M20x1.5	17	20	7.0-10.5	8.0	87.0	-
NKWZ-M207/P5	E152/p13	M20x1.5	17	20	9.0-13.0	8.0	87.0	-
# NKWZ-M257/P5	E153/p13	M25x1.5	17	20	9.0-13.0	8.0	90.0	待定
# NKWZ-M257/P6	E153/p16	M25x1.5	17	20	11.5-15.5	8.0	90.0	待定

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35315
要了解详细技术规格, 请索取 "技术数据表" DB-Nr.35315

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



- Fitting: Specially modified polyamide 6
- Female thread: nickel-plated brass
- Locking and sealing element made from specially formulated, halogen free polyamide 6 and crosslinked polyester elastomer
- Pflitsch UNI Dicht sealing insert: TPE-V
- 90° elbow: zinc diecast
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 10 bar)
- The counter nut allows accurate positioning of the 90° elbows in threaded holes
- High thread and system connection strength
- Easy push-in assembly for maximum installation reliability
- Screwdriver required for dismantling, impeding unauthorised or accidental opening
- Space-saving dismantling
- Excellent conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- Temperature range: -40°C to +105°C; Short-term: +135°C
- Content of delivery: Fitting body with sealing element, sealing insert, thread seal of OR

- 外壳: 特别改良聚酰胺6制成
- 内螺纹: 黄铜镀镍
- 锁紧和密封元件由特殊配方, 无卤素聚酰胺6和交叉联接式多酯弹性体制成
- Pflitsch UNI Dicht密封插入件: TPE-V
- 90° 弯头, 锌压铸品
- 非常高的抗冲击性
- 结合消除应力设计, 在电缆入口处提供最佳的保护 (最高可达IP68 / 10巴)
- 埋头螺母可准确定位90°弯头在螺纹孔的位置
- 高强度的螺纹和系统连接
- 简单的推入式组装方法, 可达到安装的最可靠性
- 需螺丝刀拆卸, 防止擅自或意外开启
- 采用节省空间及易于拆卸的设计
- 优秀的抗拉能力
- 非常好的化学特性
- 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: +135°C
- 包装配件: 管接头, 密封弹性体, 密封插入件和螺纹密封圈 - O型圈



- High-grade, specially formulated polyamide 6
- Thread made of nickel plated brass
- Pflitsch UNI Dicht sealing inserts are made from TPE-V
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 10 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- High conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarses (G)
- **Temperature range:** -40°C to +105°C; **Short-term:** +160°C
- **Content of delivery:**

IP68GT:
Complete: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); sealing insert, O-ring (OR)
Fitting*: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); O-ring (OR)

IP68:
Complete: Fitting with oval clips (OVN2), sealing insert, conduit seal (NVN3), O-ring (OR)
Fitting*: Fitting with oval clips (OVN2), conduit seal (NVN3), O-ring (OR)

- 高级，特殊配方聚酰胺6
- 螺纹：黄铜镀镍
- Pflitsch UNI Dicht消除应力部件由TPE-V制成
- 非常高的抗冲击强度
- 结合消除应力组件，在电缆处提供最适当的防护（可达IP68 / 10巴）
- 极高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 高强度的抗拉能力
- 非常好的化学性能
- 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

• **包装配件：**
IP68GT:
整套：管接头和通用安全夹子（AFN2）和软管密封圈（NVN3-GT）；密封插入件，O型密封圈（OR）
接头*：管接头和通用安全夹子（AFN2）和软管密封圈（NVN3-GT）；O型密封圈（OR）

IP68:
整套：管接头和椭圆型夹子（OVN2），密封插入件，软管密封圈（NVN3），O型圈（OR）
接头*：管接头和椭圆型夹子（OVN2），软管密封圈（NVN3），O型圈（OR）

IP66/IP68

VNZ straight,
strain relief, metric, metal*In railway vehicle and heavy machine construction.**Furthermore, these connectors can especially be used where damp and dry areas have to be separated.***VNZ** 直型,
消除应力，公制，金属螺纹*应用于铁路机车和重型机械的制造。**此外，这些管接头可被特别用于间隔干湿区域。*

Order No. complete black 订货号 整套 黑色	Order No. fitting * 订货号 接头 *	Order No. insert 订货号 插入件	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总长度
NVNZ-M120S/P1	NVNZ-M120R/P	EK150p7	M12x1.5	10	12	4.0 - 6.5	5.0	48.5
NVNZ-M120S/P2	NVNZ-M120R/P	EK150p8	M12x1.5	10	12	5.0 - 8.0	5.0	48.5
NVNZ-M120S/P3	NVNZ-M120R/P	EK150p9	M12x1.5	10	12	6.5 - 9.5	5.0	48.5
NVNZ-M160S/P1	NVNZ-M160R/P	E150p7	M16x1.5	10	12	4.0 - 6.5	6.0	49.5
NVNZ-M160S/P2	NVNZ-M160R/P	E150p8	M16x1.5	10	12	5.0 - 8.0	6.0	49.5
NVNZ-M160S/P3	NVNZ-M160R/P	E150p9	M16x1.5	10	12	6.5 - 9.5	6.0	49.5
NVNZ-M162S/P4	-	EK151p11	M16x1.5	12	16	7.0 - 10.5	6.0	54.5
NVNZ-M202S/P1	NVNZ-M202R/P	E152p7	M20x1.5	12	16	4.0 - 6.5	6.5	54.0
NVNZ-M202S/P2	NVNZ-M202R/P	E152p8	M20x1.5	12	16	5.0 - 8.0	6.5	54.0
NVNZ-M202S/P3	NVNZ-M202R/P	E152p9	M20x1.5	12	16	6.5 - 9.5	6.5	54.0
NVNZ-M202S/P4	NVNZ-M202R/P	E152p11	M20x1.5	12	16	7.0 - 10.5	6.5	54.0
NVNZ-M207S/P1	NVNZ-M207R/P	E152p7	M20x1.5	17	20	4.0 - 6.5	6.5	60.0
NVNZ-M207S/P2	NVNZ-M207R/P	E152p8	M20x1.5	17	20	5.0 - 8.0	6.5	60.0
NVNZ-M207S/P3	NVNZ-M207R/P	E152p9	M20x1.5	17	20	6.5 - 9.5	6.5	60.0
NVNZ-M207S/P4	NVNZ-M207R/P	E152p11	M20x1.5	17	20	7.0 - 10.5	6.5	60.0
NVNZ-M207S/P5	NVNZ-M207R/P	E152p13	M20x1.5	17	20	9.0 - 13.0	6.5	60.0
NVNZ-M253S/P5	NVNZ-M253R/P	EK154p13	M25x1.5	23	25	9.0 - 13.0	7.5	72.5
NVNZ-M253S/P6	NVNZ-M253R/P	EK154p16	M25x1.5	23	25	11.5 - 15.5	7.5	72.5
-	※ NVNZ-M253R1/P	-	M25x1.5	23	25	-	7.5	72.5
※ NVNZ-M257S/P1	NVNZ-M257R/P	E153p7	M25x1.5	17	20	4.0 - 6.5	7.5	61.5
※ NVNZ-M257S/P2	NVNZ-M257R/P	E153p8	M25x1.5	17	20	5.0 - 8.0	7.5	61.5
※ NVNZ-M257S/P3	NVNZ-M257R/P	E153p9	M25x1.5	17	20	6.5 - 9.5	7.5	61.5
NVNZ-M257S/P4	NVNZ-M257R/P	E153p11	M25x1.5	17	20	7.0 - 10.5	7.5	61.5
NVNZ-M257S/P5	NVNZ-M257R/P	E153p13	M25x1.5	17	20	9.0 - 13.0	7.5	61.5
NVNZ-M257S/P6	NVNZ-M257R/P	E153p16	M25x1.5	17	20	11.5 - 15.5	7.5	61.5
NVNZ-M323S/P4	NVNZ-M323R/P	E154p18	M32x1.5	23	25	14.0 - 18.0	8.0	73.0
NVNZ-M323S/P5	※ NVNZ-M323R1/P	E154p20	M32x1.5	23	25	17.0 - 20.5	8.0	73.0
NVNZ-M329S/P2	NVNZ-M329R/P	EK155p18	M32x1.5	29	32	14.0 - 18.0	8.0	73.0
NVNZ-M329S/P3	NVNZ-M329R/P	EK155p20	M32x1.5	29	32	17.0 - 20.5	8.0	73.0
NVNZ-M329S/P4	NVNZ-M329R/P	EK155p25	M32x1.5	29	32	20.0 - 25.0	8.0	73.0
NVNZ-M406S/P1	NVNZ-M406R/P	E156p25HF	M40x1.5	36	40	20.0 - 25.0	9.0	87.0
NVNZ-M406S/P2	NVNZ-M406R/P	EK156p28	M40x1.5	36	40	24.0 - 28.0	9.0	87.0
NVNZ-M406S/P3	NVNZ-M406R/P	EK156p32	M40x1.5	36	40	27.0 - 32.0	9.0	87.0
NVNZ-M406S/P5	NVNZ-M406R/P	EK156p36	M40x1.5	36	40	32.0 - 36.0	9.0	87.0
NVNZ-M409S/P1	NVNZ-M409R/P	E155p16	M40x1.5	29	32	11.5 - 15.5	8.0	73.0
NVNZ-M409S/P2	NVNZ-M409R/P	E155p18	M40x1.5	29	32	14.0 - 18.0	8.0	73.0
NVNZ-M409S/P3	NVNZ-M409R/P	E155p20	M40x1.5	29	32	17.0 - 20.5	8.0	73.0
NVNZ-M409S/P4	NVNZ-M409R/P	E155p25	M40x1.5	29	32	20.0 - 25.0	8.0	73.0
NVNZ-M409S/P5	NVNZ-M409R/P	E155p28	M40x1.5	29	32	24.0 - 28.0	8.0	73.0
※ NVNZ-M506S/P1	NVNZ-M506R/P	E156p32	M50x1.5	36	40	27.0 - 32.0	10.0	89.5
※ NVNZ-M506S/P2	NVNZ-M506R/P	E156p34	M50x1.5	36	40	29.0 - 34.0	10.0	89.5
NVNZ-M506S/P3	NVNZ-M506R/P	E156p36	M50x1.5	36	40	32.0 - 36.0	10.0	89.5
NVNZ-M508S/P2	NVNZ-M508R/P	E157p36HF	M50x1.5	48	50	32.0 - 36.0	10.0	92.0
NVNZ-M508S/P3	NVNZ-M508R/P	E157p40HF	M50x1.5	48	50	36.0 - 40.0	10.0	92.0
NVNZ-M638S/P1	NVNZ-M638R/P	E158pm1x35	M63x1.5	48	50	32.0 - 35.0	10.0	90.5
NVNZ-M638S/P2	NVNZ-M638R/P	E158p44	M63x1.5	48	50	39.0 - 44.0	10.0	90.5

※ = R1 version has to be used in combination with multiple sealing inserts / R1 型号要和多孔插入件一起使用

▲ IP68GT available. Please replace "S" or "R" with "GT" (for example NVNZ-M120GT/P1, NVNZ-M120GT/P).
(Functional description PMAFIX IP68GT, page 3-11/12/13).▲ IP68GT管接头开始供应。请更换订货号后的"S"或"R"改成"GT" (例如 NVNZ-M120GT/P1, NVNZ-M120GT/P)
(有关PMAFIX IP68GT管接头的功能描述，见P3-11/12/13)。

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35012

要了解详细技术规格，请索取“技术数据表”DB-Nr.35012

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

IP66/IP68

VNZ straight,
strain relief, metric, metal, long

In railway vehicle and heavy machine construction.

Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

VNZ 直型,
消除应力, 公制, 金属长螺纹

应用于铁路机车和重型机械的制造。

此外, 这些管接头可被特别用于间隔干湿区域。



Order No. complete black ▲	Order No. fitting * ▲	Order No. insert	Thread metric	Fits to conduit size NW	metric	Single Cable range	Thread length	Overall length
订货号 整套 黑色 ▲	订货号 接头 * ▲	订货号 插入件	螺纹 公制	适配软管尺寸 标称内径	公制	单根电缆 直径范围	螺纹 长度	总长度
NVNZ-M120S/P1-L	NVNZ-M120R/P-L	EK150p7	M12x1.5	10	12	4.0 - 6.5	15.0	66.5
NVNZ-M160S/P1-L	NVNZ-M160R/P-L	E150p7	M16x1.5	10	12	4.0 - 6.5	15.0	58.5
NVNZ-M160S/P2-L	NVNZ-M160R/P-L	E150p8	M16x1.5	10	12	5.0 - 8.0	15.0	58.5
NVNZ-M160S/P3-L	NVNZ-M160R/P-L	E150p9	M16x1.5	10	12	6.5 - 9.5	15.0	58.5
NVNZ-M202S/P1-L	NVNZ-M202R/P-L	E152p7	M20x1.5	12	16	4.0 - 6.5	15.0	62.5
NVNZ-M202S/P3-L	NVNZ-M202R/P-L	E152p9	M20x1.5	12	16	6.5 - 9.5	15.0	62.5
NVNZ-M202S/P4-L	NVNZ-M202R/P-L	E152p11	M20x1.5	12	16	7.0 - 10.5	15.0	62.5
NVNZ-M207S/P3-L	NVNZ-M207R/P-L	E152p9	M20x1.5	17	20	6.5 - 9.5	15.0	68.5
NVNZ-M207S/P4-L	NVNZ-M207R/P-L	E152p11	M20x1.5	17	20	7.0 - 10.5	15.0	68.5
NVNZ-M207S/P5-L	NVNZ-M207R/P-L	E152p13	M20x1.5	17	20	9.0 - 13.0	15.0	68.5
NVNZ-M257S/P5-L	NVNZ-M257R/P-L	E153p13	M25x1.5	17	20	9.0 - 13.0	15.0	69.0
NVNZ-M257S/P6-L	NVNZ-M257R/P-L	E153p16	M25x1.5	17	20	11.5 - 15.5	15.0	69.0
NVNZ-M323S/P4-L	NVNZ-M323R/P-L	E154p18	M32x1.5	23	25	14.0 - 18.0	15.0	80.0
NVNZ-M323S/P5-L	NVNZ-M323R1/P-L	E154p20	M32x1.5	23	25	17.0 - 20.5	15.0	80.0
NVNZ-M329S/P2-L	NVNZ-M329R/P-L	E155p18	M32x1.5	29	32	14.0 - 18.0	15.0	91.0
NVNZ-M329S/P3-L	NVNZ-M329R/P-L	E155p20	M32x1.5	29	32	17.0 - 20.5	15.0	91.0
NVNZ-M409S/P3-L	NVNZ-M409R/P-L	E155p20	M40x1.5	29	32	17.0 - 20.5	15.0	80.0
NVNZ-M409S/P4-L	NVNZ-M409R/P-L	E155p25	M40x1.5	29	32	20.0 - 25.0	15.0	80.0
NVNZ-M409S/P5-L	NVNZ-M409R/P-L	E155p28	M40x1.5	29	32	24.0 - 28.0	15.0	80.0
NVNZ-M506S/P1-L	NVNZ-M506R/P-L	E156p32	M50x1.5	36	40	27.0 - 32.0	15.0	94.5
NVNZ-M506S/P3-L	NVNZ-M506R/P-L	E156p36	M50x1.5	36	40	32.0 - 36.0	15.0	94.5
NVNZ-M508S/P2-L	NVNZ-M508R/P-L	E157p36HF	M50x1.5	48	50	32.0 - 36.0	15.0	97.0
NVNZ-M508S/P3-L	NVNZ-M508R/P-L	E157p40HF	M50x1.5	48	50	36.0 - 40.0	15.0	97.0
NVNZ-M638S/P1-L	NVNZ-M638R/P-L	E158p44	M63x1.5	48	50	32.0 - 35.0	15.0	95.5
NVNZ-M638S/P2-L	NVNZ-M638R/P-L	E158p44	M63x1.5	48	50	39.0 - 44.0	15.0	95.5

※ = R1 version has to be used in combination with multiple sealing inserts / R1 型号要和多孔插入件一起使用

▲ IP68GT available. Please replace "S" or "R" with "GT" (for example NVNZ-M120GT/P1-L, NVNZ-M120GT/P-L).
(Functional description PMAFIX IP68GT, page 3-11/12/13).▲ IP68GT管接头开始供应。请更换订货号后的 "S" 或 "R" 改成 "GT" (例如 NVNZ-M120GT/P1-L, NVNZ-M120GT/P-L)
(有关PMAFIX IP68GT管接头的功能描述, 见P3-11/12/13)。For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35013
要了解详细技术规格, 请索取 "技术数据表" DB-Nr.35013unit = mm
单位 = mm

- High-grade, specially formulated polyamide 6
- Thread made of nickel plated brass
- Pflitsch UNI Dicht sealing inserts are made from TPE-V
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 10 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- Easy installation
- High conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarses (G)
- Temperature range: -40°C to +105°C; Short-term: +160°C
- Content of delivery:

IP68GT:

Complete: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); sealing insert, O-ring (OR)

Fitting *: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); O-ring (OR)

IP68:

Complete: Fitting with oval clips (OVN2), sealing insert, conduit seal (NVN3), O-ring (OR)

Fitting *: Fitting with oval clips (OVN2), conduit seal (NVN3), O-ring (OR)

- 高级, 特殊配方聚酰胺6
- 螺纹: 黄铜镀镍
- Pflitsch UNI Dicht消除应力部件由TPE-V制成
- 非常高的抗冲击强度
- 结合消除应力组件, 在电缆处提供最适当的防护 (可达IP68 / 10巴)
- 极高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 易于安装
- 高强度的抗拉能力
- 非常好的化学性能
- 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
- 包装配件:

IP68GT:

整套: 管接头和通用安全夹子 (AFN2) 和软管密封圈 (NVN3-GT); 密封插入件, O型密封圈 (OR)

接头*: 管接头和通用安全夹子 (AFN2) 和软管密封圈 (NVN3-GT); O型密封圈 (OR)

IP68:

整套: 管接头和椭圆型夹子 (OVN2), 密封插入件, 软管密封圈 (NVN3), O型圈 (OR)

接头*: 管接头和椭圆型夹子 (OVN2), 软管密封圈 (NVN3), O型圈 (OR)



- High-grade specially formulated polyamide 6
- Thread made of nickel plated brass
- Pflitsch UNI Dicht sealing inserts are made from TPE-V
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 10bar)
- High thread and system connection strength
- **Special flange**
- Vibration-resistant connection to PMAFLEX conduits
- Easy installation
- High conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- **Temperature range:** -40°C to +105°C; **Short-term:** +160°C
- **Content of delivery:**
- Complete: Fitting with oval clips (OVN2), sealing insert, conduit seal (NVN3), O-ring (OR)

- 高级特殊配方聚酰胺6
- 螺纹：黄铜镀镍
- Pflitsch UNI Dicht消除应力部件由TPE-V制成
- 非常高的抗冲击强度
- 结合消除应力组件，在电缆处提供最适当的防护（可达IP68 / 10巴）
- 极高强度的螺纹和系统连接；
- **特殊法兰**
- 配合PMAFLEX软管使用具有很好的防震作用
- 易于安装；
- 高强度的抗拉能力
- 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
- 包装配件：
- 整套：管接头和椭圆形夹子 (OVN2)，密封插入件，软管密封圈 (NVN3)，O型圈 (OR)

IP66/IP68

VNZ straight, strain relief, metric, metal

In railway vehicle and heavy machine construction.

Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

VNZ 直型, 消除应力, 公制, 金属螺纹

应用于铁路机车和重型机械的制造。

此外，这些管接头可被特别用于间隔干湿区域。



Order No. black 订货号 黑色	Order No. insert 订货号 插入件	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总长度	MOQ (pcs) 最小起订量 黑色
# NVNZ-M506S/P3/1	E156p36	M50x1.5	36	40	32.0 - 36.0	15.0	98.0	待定
# NVNZ-M508S/P3/1	E157p40HF	M50x1.5	48	50	36.0 - 40.0	15.0	99.0	待定
# NVNZ-M636S/P3/1	E156p36	M63x1.5	36	40	32.0 - 36.0	15.0	97.0	待定
# NVNZ-M638S/P2/1	E158p44	M63x1.5	48	50	39.0 - 44.0	15.0	101.0	待定

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35014
要了解详细技术规格，请索取“技术数据表”DB-Nr.35014
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

IP66/IP68

CE PFLITSCH

VWZ 90° elbow,
strain relief, metric, metal

In railway vehicle construction and heavy machine construction.
Furthermore, these connectors can especially be used where
damp and dry areas have to be separated.

VWZ 90° 弯头,
消除应力, 公制, 金属螺纹

应用于铁路机车和重型机械的制造。
此外, 这些管接头可被特别用于间隔干湿区域。



Order No. complete, black 订货号 整套 黑色	Order No. fitting * 订货号 接头*	Order No. insert 订货号 插入件	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度
NVWZ-M160S/P1	NVWZ-M160R/P	E150p7	M16x1.5	10	12	4.0 - 6.5	8.0	65.0
NVWZ-M160S/P2	NVWZ-M160R/P	E150p8	M16x1.5	10	12	5.0 - 8.0	8.0	65.0
NVWZ-M160S/P3	NVWZ-M160R/P	E150p9	M16x1.5	10	12	6.5 - 9.5	8.0	65.0
NVWZ-M202S/P1	NVWZ-M202R/P	E152p7	M20x1.5	12	16	4.0 - 6.5	8.0	74.5
NVWZ-M202S/P3	NVWZ-M202R/P	E152p9	M20x1.5	12	16	6.5 - 9.5	8.0	74.5
NVWZ-M202S/P4	NVWZ-M202R/P	E152p11	M20x1.5	12	16	7.0 - 10.5	8.0	74.5
NVWZ-M207S/P1	NVWZ-M207R/P	E152p7	M20x1.5	17	20	4.0 - 6.5	8.0	81.0
NVWZ-M207S/P3	NVWZ-M207R/P	E152p9	M20x1.5	17	20	6.5 - 9.5	8.0	81.0
NVWZ-M207S/P4	NVWZ-M207R/P	E152p11	M20x1.5	17	20	7.0 - 10.5	8.0	81.0
NVWZ-M207S/P5	NVWZ-M207R/P	E152p13	M20x1.5	17	20	9.0 - 13.0	8.0	81.0
NVWZ-M257S/P5	NVWZ-M257R/P	E153p13	M25x1.5	17	20	9.0 - 13.0	8.0	84.0
NVWZ-M257S/P6	NVWZ-M257R/P	E153p16	M25x1.5	17	20	11.5 - 15.5	8.0	84.0
NVWZ-M323S/P4	-	E154p18	M32x1.5	23	25	14.0 - 18.0	10.0	102.0

▲ IP68GT available. Please replace final "S" with "GT" (for example NVWZ-M160GT/P1).
(Functional description PMAFIX IP68GT, page 3-11/12/13).

▲ IP68GT管接头开始供应。请更换订货号后的"S"改成"GT" 例如 NVWZ-M160GT/P1)。
(有关PMAFIX IP68GT管接头的功能描述, 见P3-11/12/13)。

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35112
要了解详细技术规格, 请索取"技术数据表" DB-Nr.35112

unit = mm
单位 = mm

- High-grade formulated polyamide 6, straight fitting with nickel-plated brass female thread, zinc diecast (90° elbow), Pflitsch UNI Dicht sealing insert TPE-V
 - With corresponding seals IP68 static / IP67 dynamic, cable=IP68 (10 bar)
 - Very high impact resistance
 - With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 10bar)
 - The counter nut allows accurate positioning of the 90° elbows in threaded holes
 - High thread and system connection strength
 - Vibration-resistant connection to PMAFLEX conduits
 - Easy installation
 - High conduit pull-out strength
 - Very good chemical properties
 - Free from halogens and cadmium
 - Fits both conduit profiles-fine (T) and coarse (G)
 - Temperature range: -40°C to +105°C; Short-term: +160°C
- Content of delivery:**
IP68GT:
Complete: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); sealing insert, O-ring (OR)
Fitting*: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); O-ring (OR)
IP68:
Complete: Fitting with oval clips (OVN2), sealing insert, conduit seal (NVN3), O-ring (OR)
Fitting*: Fitting with oval clips (OVN2), conduit seal (NVN3), O-ring (OR)

- 高级, 特殊配方聚酰胺6, 黄铜镀镍内螺纹直型装置, 铸铝(90°弯头), Pflitsch UNI Dicht密封插入件TPE-V
- 带相关密封圈IP68静态 / IP67动态, 电缆=IP68(10巴)
- 极高的抗冲击强度
- 结合消除应力组件, 在电缆处提供最适当的防护(可达IP68 / 10巴)
- 埋头螺母可准确定位90°弯头在螺纹孔的位置
- 极高强度的螺纹和系统连接;
- 配合PMAFLEX软管使用具有很好的防震作用
- 易于安装
- 高强度的抗拉能力;
- 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
- 包装配件:
IP68GT:
整套: 管接头和通用安全夹子 (AFN2) 和软管密封圈 (NVN3-GT); 密封插入件, O型圈 (OR)
接头*: 管接头和通用安全夹子 (AFN2) 和软管密封圈 (NVN3-GT); O型圈 (OR)
IP68:
整套: 管接头和椭圆型夹子 (OVN2), 密封插入件, 软管密封圈(NVN3), O型圈 (OR)
接头*: 管接头和椭圆型夹子 (OVN2), 软管密封圈 (NVN3); O型圈 (OR)



- High-grade, specially formulated polyamide 6,
- Thread made of nickel plated brass
- Pflitsch UNI Dicht sealing inserts made from TPE-V
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 10 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- High conduit pull-out strength
- Very good chemical properties
- Easy installation
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- Temperature range: -40°C to +105°C; Short-term: +160°C

Content of delivery:

IP68GT:

Complete: Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); sealing insert, O-ring (OR)

Fitting * Fitting with pre-assembled universal safety clips (AFN2) and conduit seal (NVN3-GT); O-ring (OR)

IP68:

Complete: Fitting with oval clips (OVN2), sealing insert, conduit seal (NVN3), O-ring (OR)

Fitting * Fitting with oval clips (OVN2), conduit seal (NVN3), O-ring (OR)

- 高级，特殊配方聚酰胺6
- 螺纹：黄铜镀镍
- Pflitsch UNI Dicht密封插入件由TPE-V制成
- 非常高的抗冲击强度
- 结合消除应力组件，在电缆处提供最适当的防护（最高可达 IP68 / 10巴）
- 极高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 高强度的抗拉能力
- 非常好的化学性能
- 安装方便
- 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
- 包装配件：

IP68GT:

整套* 管接头和通用安全夹子 (AFN2) 软管密封圈 (NVN3-GT); 密封插入件, O型圈 (OR)

接头：管接头和通用安全夹子 (AFN2), 和软管密封圈 (NVN3-GT); O型圈 (OR)

IP68:

整套* 管接头和椭圆型夹子 (OVN2), 密封插入件, 软管密封圈 (NVN3), O型圈 (OR)

接头：管接头和椭圆型夹子 (OVN2), 软管密封圈(NVN3); O型圈 (OR)

IP66/IP68

VNZ straight, PG, strain relief, metal

In railway vehicle and heavy machine construction.

Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

VNZ 直型, PG, 消除应力, 金属螺纹

应用于铁路机车和重型机械的制造。

此外，这些管接头可被特别用于间隔干湿区域。



Order No. Complete, black 订货号 整套 黑色	Order No. Fitting * 订货号 接头 *	Order No. Insert 订货号 插入件	Thread PG 螺纹 PG	Fits to conduit size NW 适配软管 标称内径	metric 尺寸 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度	MOQ (pcs) 最小起订量 黑色N
NVNZ-P090S/P1	NVNZ-P090R/P	E150p7	09	10	12	4.0 - 6.5	6.0	49.5	—
NVNZ-P090S/P3	NVNZ-P090R/P	E150p9	09	10	12	6.5 - 9.5	6.0	49.5	—
NVNZ-P110S/P1	NVNZ-P110R/P	E151p7	11	10	12	4.0 - 6.5	6.0	52.0	—
NVNZ-P110S/P3	NVNZ-P110R/P	E151p9	11	10	12	6.5 - 9.5	6.0	52.0	—
NVNZ-P112S/P1	NVNZ-P112R/P	E151p7	11	12	16	4.0 - 6.5	6.0	53.5	—
NVNZ-P112S/P3	NVNZ-P112R/P	E151p9	11	12	16	6.5 - 9.5	6.0	53.5	—
NVNZ-P112S/P4	NVNZ-P112R/P	E151p11	11	12	16	7.0 - 10.5	6.0	53.5	—
NVNZ-P137S/P4	NVNZ-P137R/P	E152p11	13	17	20	7.0 - 10.5	6.5	60.0	—
# NVNZ-P160S/P1	NVNZ-P160R/P	E151p7	16	10	12	4.0 - 6.5	6.5	52.5	100
NVNZ-P167S/P3	NVNZ-P167R/P	E153p9	16	17	20	6.5 - 9.5	6.5	61.0	—
NVNZ-P167S/P4	NVNZ-P167R/P	E153p11	16	17	20	7.0 - 10.5	6.5	61.0	—
NVNZ-P167S/P5	NVNZ-P167R/P	E153p13	16	17	20	9.0 - 13.0	6.5	61.0	—
NVNZ-P167S/P6	NVNZ-P167R/P	E153p16	16	17	20	11.5 - 15.5	6.5	61.0	—
NVNZ-P213S/P1	NVNZ-P213R/P	E154p11	21	23	25	7.0 - 10.5	7.0	72.0	—
NVNZ-P213S/P3	NVNZ-P213R/P	E154p16	21	23	25	11.5 - 15.5	7.0	72.0	—
NVNZ-P213S/P4	NVNZ-P213R/P	E154p18	21	23	25	14.0 - 18.0	7.0	72.0	—
NVNZ-P213S/P5	NVNZ-P213R/P	E154p20	21	23	25	17.0 - 20.5	7.0	72.0	—
NVNZ-P299S/P3	NVNZ-P299R/P	E155p20	29	29	32	17.0 - 20.5	8.0	73.5	—
NVNZ-P299S/P4	NVNZ-P299R/P	E155p25	29	29	32	20.0 - 25.0	8.0	73.5	—
NVNZ-P299S/P5	NVNZ-P299R/P	E155p28	29	29	32	24.0 - 28.0	8.0	73.5	—
NVNZ-P366S/P1	NVNZ-P366R/P	E156p32	36	36	40	27.0 - 32.0	9.0	88.0	—
NVNZ-P366S/P2	NVNZ-P366R/P	E156p34	36	36	40	29.0 - 34.0	9.0	88.0	—
NVNZ-P366S/P3	NVNZ-P366R/P	E156p36	36	36	40	32.0 - 36.0	9.0	88.0	—
NVNZ-P488S/P1	NVNZ-P488R/P	E158pm1x35	48	48	50	32.0 - 35.0	10.0	90.5	—
NVNZ-P488S/P2	NVNZ-P488R/P	E158p44	48	48	50	39.0 - 44.0	10.0	90.5	—

※ = R1 version has to be used in combination with multiple sealing inserts / R1 型号要和多孔插入件一起使用

▲ IP68GT available. Please replace final "S" or "R" with "GT". (Functional description PMAFIX IP68GT, page 3-11/12/13).

▲ IP68GT管接头开始供应。请在订货号后的 "S" 或 "R" 改成 "GT"。

(有关PMAFIX IP68GT管接头的功能描述，见P3-11/12/13)。

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35010

要了解详细技术规格，请索取“技术数据表” DB-Nr.35010

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm

MDE multiple sealing inserts

To seal many individual wires / cables. Suitable for VNZ/KNZ connectors with Pflitsch insert with metric metal thread.

MDE 多孔密封插入件

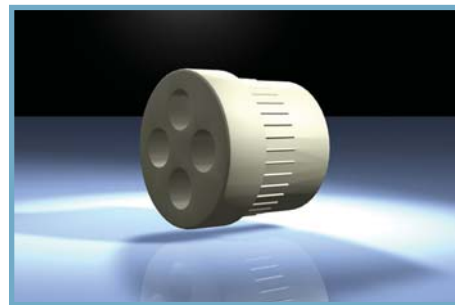
密封多根电线/电缆。
适合VNZ/KNZ带Pflitsch消除应力插入件的公制金属螺纹管接头。

Order No. beige 订货号 浅褐色	Thread size of VNZ/KNZ connector Metric metal thread VNZ/KNZ管接头的螺纹尺寸 公制金属螺纹	Numbers of bores x hole diameter(mm) 孔数和孔径（毫米）				MOQ(pcs) 最小起订量
# MDE-M160-*x*/P	M16 x 1.5	2 x 3	2 x 4	4 x 3		50
# MDE-M202-*x*/P	M20 x 1.5	2 x 6	3 x 4			50
# MDE-M257-*x*/P	M25 x 1.5	2 x 5	4 x 5			100
# MDE-M253-*x*/P	M25 x 1.5	2 x 8	3 x 7			25
# MDE-M323-*x*/P	M32 x 1.5	2 x 9	2 x 6.5	4 x 8		25 / 25 / 25
# MDE-M329-*x*/P	M32 x 1.5	2 x 6.5	4 x 9			待定 / 10
# MDE-M409-*x*/P	M40 x 1.5	2 x 8	2 x 10	2 x 13	4 x 9	10
# MDE-M506-*x*/P	M50 x 1.5	2 x 14				50

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.62065
要了解详细技术规格，请索取“技术数据表”DB-Nr.62065

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



- Material TPE-V
- To seal many individual wires / cables
- Type of protection: IP65
- Type of protection: IP68 up to 10 bar, reachable if cable $\varnothing$ = hole $\varnothing$
- Temperature range: -40°C to +105°C; Short-term: +135°C

- 材质为TPE-V
- 用于密封多根电线 / 电缆
- 防护等级: IP65
- 防护等级: 如果电缆直径 = 孔径，则可达最高IP68 / 10 巴
- 温度范围: -40°C 至 +105°C; 短期温度: +135°C

MDE multiple sealing inserts

To seal many individual wires / cables. Suitable for VNZ connectors with Pflitsch insert with PG metal thread.

MDE 多孔密封插入件

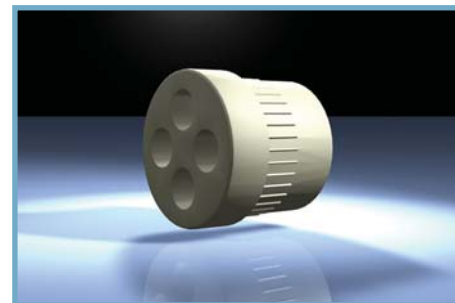
密封多根电线/电缆。
适合VNZ带Pflitsch消除应力插入件的PG制金属螺纹管接头。

Order No. beige 订货号 浅褐色	Thread size of VNZ connector PG metal thread VNZ管接头的螺纹尺寸 PG制金属螺纹	Numbers of bores x hole diameter(mm) 孔数和孔径（毫米）		MOQ(pcs) 最小起订量
# MDE-P13-*x*/P	PG 13.5	2 x 3		待定
# MDE-P16-*x*/P	PG 16.0	4 x 5		待定
# MDE-P21-*x*/P	PG 21.0	4 x 5		25
# MDE-P29-*x*/P	PG 29.0	2 x 11		25

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.62070
要了解详细技术规格，请索取“技术数据表”DB-Nr.62070

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



- Material TPE-V
- To seal many individual wires / cables
- Type of protection: IP65
- Type of protection: IP68 up to 10 bar, reachable if cable $\varnothing$ = hole $\varnothing$
- Temperature range: -40°C to +105°C; Short-term: +135°C

- 材质为TPE-V
- 用于密封多根电线 / 电缆
- 防护等级: IP65
- 防护等级: 如果电缆直径 = 孔径，则可达最高IP68 / 10 巴
- 温度范围: -40°C 至 +105°C; 短期温度: +135°C

Note:

注意:

Other combinations of number of bores and hole diameter are available on request.

不同的孔数和孔径的组合可按需要提供。

Connector, Metric/PG/NPT, Straight, with strain relief (Jacob PERFECT Sealing insert) and metal thread, IP68 / IP69

管接头，公制/PG制/NPT制，直型，消除应力（Jacob PERFECT密封插入件）和金属螺纹，IP68 / IP69

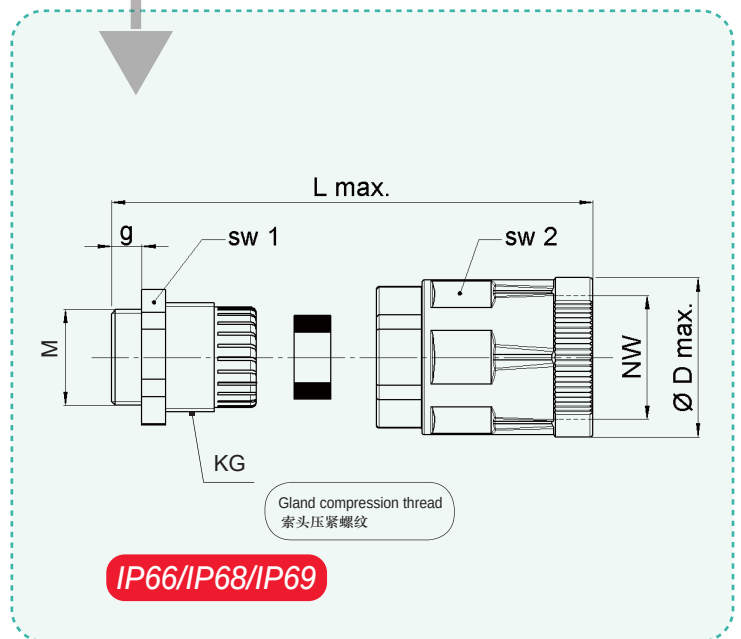
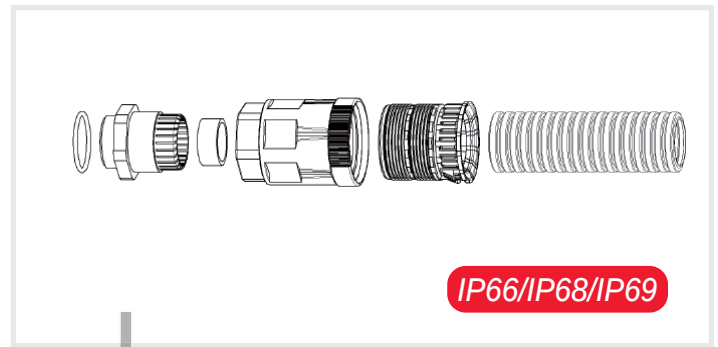
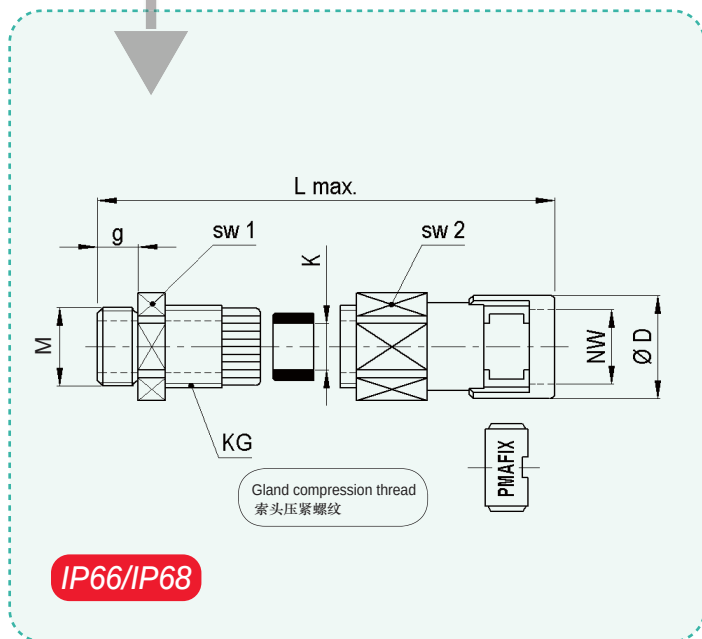
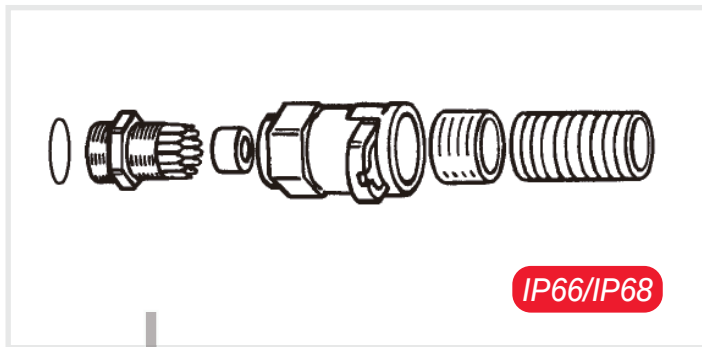


Sealing system

密封系统

If several cables or wires are used, or if a cable is out of the recommended clamping range for the sealing insert, increased deformation of the insert can occur and it leads to reduced sealing performance. In order to achieve a sealing level corresponding to IP68, PMA generally recommends additional sealing of the gland compression thread (KG) using a commonly available thread sealing compound.

如果使用多根电缆或电线，或者单根电缆的直径超过密封插入件的推荐夹紧范围，则插入件变形的可能性增加，从而导致密封性能降低。为了达到与IP68相对应的密封水平，PMA建议使用通用的螺纹密封剂对索头压紧螺纹(KG)进行额外的密封。



Sealing Recommendations: PMA strain relief connectors using Jacob cable gland elements

密封推荐：使用 Jacob 电缆索头密封元件的PMA消除应力管接头

- Many factors can affect the sealing performance of Jacob cable gland elements integrated into PMA connectors.
很多因素都会影响到PMA管接头中的 Jacob 电缆索头密封元件的密封性能。
- If a bundle of cables is clamped within a single hole sealing insert, reduced sealing performance may result.
如将一束电缆夹在单孔密封插入件内，则密封性能将会降低。
- If a cable with a diameter out of the recommended clamping range is used, reduced sealing performance may result .
如果单根电缆的直径超过推荐的夹紧范围，则密封性能将会降低。
- If a cable which is not perfectly round is clamped, reduced sealing performance may result.
如夹紧的不是完全圆形（变形）的电缆，则密封性能将会降低。

■ In the cases mentioned above:

如上述情况下：

1. It cannot be guaranteed that water will be prevented from entering the cable protection system from outside via the gland compression thread.
它不能保证水可以被阻止从外部通过索头压紧螺纹部分进入电缆保护系统。
 2. Water may pass through the gland compression thread, along the cable, into other parts of the electrical system.
水可能会穿过索头压紧螺纹，并沿着电缆进入电气系统的其他部分。
- A sealing compound can be used on the gland compression thread to prevent water entering the cable protection system from outside.
在索头压紧螺纹上可使用密封混合物以防止水从外部进入电缆保护系统。
 - Please consider our recommendation for adhesives and sealing agents. (see chapter 14)
请参考我司关于如何使用粘合剂和密封剂的建议。（请查阅第14章）

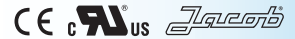
- Please follow the tightening torque recommendations. Over tightening of the gland compression thread can cause damage.
请遵循拧紧扭矩建议。过度拧紧索头压紧螺纹会造成损坏。
- If several cables / wires are used within a Jacob cable gland element, a multiple sealing insert (MDE) has to be considered for best sealing and clamping performance.
如果在 Jacob 电缆索头元件内使用多根电缆 / 电线，则一定要考虑使用多孔密封插入件 (MDE)，从而达到最佳密封和夹紧性能。
- Please note that the temperature range quoted by Jacob for the sealing inserts : Temperature range -20°C... + 100°C (dynamic) ;
- 40°C (static, short term) , is different to the temperature range for the PMA connector body : - 40°C ... + 105°C
请注意：Jacob 密封插入件的工作温度范围：- 20°C ... + 100 °C (动态)；- 40°C (静态，短期温度)
不同于PMA管接头的工作温度范围：- 40°C ... + 105°C



- Fitting: specially modified polyamide 6
- Thread: nickel-plated brass
- Sealing: crosslinked polyester elastomer+Jacob PERFECT sealing insert with sealing ring made from CR / NBR
- **IP69** even in dynamic applications
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 5 bar).
- High thread and system connection strengths
- Very high impact resistance, even at very low temperatures.
- Easy push-in assembly for maximum installation reliability
- Screwdriver required for dismantling, impeding unauthorised or accidental opening
- Space-saving dismantling
- Excellent conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- **Temperature range:** -50°C to +105°C; Short-term: +160°C
- **Content of delivery:** Fitting body with sealing element, sealing insert, thread seal of OR

- 外壳：由特别改良聚酰胺6制成
- 螺纹：黄铜镀镍
- 密封圈：交叉联接式多元酯弹性体+JACOB PERFECT密封插入件，其密封环材质是CR / NBR
- **IP69**，即使在动态应用条件下
- 电缆夹紧处防护等级可以达到IP68 (5 bar)
- 高强度的螺纹和系统连接
- 极好的抗冲击强度，即使在非常低的温度。
- 推入式的简易安装，可达到最可靠性安装
- 需螺丝刀拆卸，防止擅自或意外开启
- 采用节省空间及易于拆卸的设计
- 优秀的抗拉能力
- 非常好的化学性能
- 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：-50°C 至 +105°C；短期温度：+160°C
- 包装配件：管接头，密封弹性体，密封插入件和螺纹密封圈 - O型圈

IP66/IP68/IP69

**KNZ** straight,
strain relief, metric, metal

In railway vehicle construction for carriage connections and heavy machine construction.

Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

KNZ 直型，
消除应力，公制，金属螺纹

应用于铁路机车车辆连接和重型机械的制造。

此外，这些管接头可被特别用于间隔干湿区域。

	Order No. black 订货号 黑色	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度	MOQ (pcs) 最小起订量 黑色
	NKNZ-M160S-5	M16x1.5	10	12	5.0 - 9.0	5.0	59.0	-
	NKNZ-M162S-5	M16x1.5	12	16	5.0 - 9.0	5.0	64.5	-
	NKNZ-M202S-10	M20x1.5	12	16	9.0 - 13.0	10.0	72.0	待定
	NKNZ-M202S-6	M20x1.5	12	16	9.0 - 13.0	6.0	68.0	-
	NKNZ-M207S-10	M20x1.5	17	20	9.0 - 13.0	10.0	77.5	-
	NKNZ-M207S-6	M20x1.5	17	20	9.0 - 13.0	6.0	73.5	-
	NKNZ-M257S-11	M25x1.5	17	20	11.0 - 16.0	11.0	79.0	-
	NKNZ-M257S-7	M25x1.5	17	20	11.0 - 16.0	7.0	75.0	-
	NKNZ-M253S-11	M25x1.5	23	25	11.0 - 16.0	11.0	81.0	-
	NKNZ-M253S-7	M25x1.5	23	25	11.0 - 16.0	7.0	77.0	-
	NKNZ-M323S-13	M32x1.5	23	25	14.0 - 21.0	13.0	86.5	-
	NKNZ-M323S-8	M32x1.5	23	25	14.0 - 21.0	8.0	81.5	-
	NKNZ-M329S-13	M32x1.5	29	32	14.0 - 21.0	13.0	91.0	-
	NKNZ-M329S-8	M32x1.5	29	32	14.0 - 21.0	8.0	86.0	-
	NKNZ-M409S-13	M40x1.5	29	32	19.0 - 27.0	13.0	95.5	-
	NKNZ-M409S-8	M40x1.5	29	32	19.0 - 27.0	8.0	90.5	-
	NKNZ-M406S-13	M40x1.5	36	40	19.0 - 27.0	13.0	100.0	-
	NKNZ-M406S-8	M40x1.5	36	40	19.0 - 27.0	8.0	95.0	-
	NKNZ-M506S-14	M50x1.5	36	40	24.0 - 35.0	14.0	108.5	-
	NKNZ-M506S-9	M50x1.5	36	40	24.0 - 35.0	9.0	103.5	-
	NKNZ-M508S-14	M50x1.5	48	50	24.0 - 35.0	14.0	114.5	-
	NKNZ-M508S-9	M50x1.5	48	50	24.0 - 35.0	9.0	109.5	-
	NKNZ-M638S-14	M63x1.5	48	50	32.0 - 42.0	14.0	116.0	-
	NKNZ-M638S-10	M63x1.5	48	50	32.0 - 42.0	10.0	112.0	-

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35302

要了解详细技术规格，请索取“技术数据表”DB-Nr.35302

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

IP66/IP68

VNZ straight, strain relief, metric, metal

In railway vehicle and heavy machine construction.

Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

VNZ 直型, 消除应力, 公制, 金属螺纹

应用于铁路机车和重型机械的制造。

此外, 这些管接头可被特别用于间隔干湿区域。

CE 

Order No. black 订货号 黑色	Thread metric 螺纹 公制	Fits to conduit size NW 适配软管尺寸 标称内径 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总长度
NVNZ-M120S-10	M12x1.5	10 12	3.0 - 6.0	10.0	54.5
NVNZ-M120S-5	M12x1.5	10 12	3.0 - 6.0	5.0	49.5
NVNZ-M160S-10	M16x1.5	10 12	5.0 - 9.0	10.0	58.0
NVNZ-M160S-5	M16x1.5	10 12	5.0 - 9.0	5.0	53.0
NVNZ-M162S-10	M16x1.5	12 16	5.0 - 9.0	10.0	61.0
NVNZ-M162S-5	M16x1.5	12 16	5.0 - 9.0	5.0	56.0
NVNZ-M202S-10	M20x1.5	12 16	9.0 - 13.0	10.0	64.5
NVNZ-M202S-6	M20x1.5	12 16	9.0 - 13.0	6.0	60.5
NVNZ-M207S-10	M20x1.5	17 20	9.0 - 13.0	10.0	72.0
NVNZ-M207S-6	M20x1.5	17 20	9.0 - 13.0	6.0	68.0
NVNZ-M257S-11	M25x1.5	17 20	11.0 - 16.0	11.0	74.0
NVNZ-M257S-7	M25x1.5	17 20	11.0 - 16.0	7.0	70.0
NVNZ-M253S-11	M25x1.5	23 25	11.0 - 16.0	11.0	78.5
NVNZ-M253S-7	M25x1.5	23 25	11.0 - 16.0	7.0	74.5
NVNZ-M323S-13	M32x1.5	23 25	14.0 - 21.0	13.0	84.0
NVNZ-M323S-8	M32x1.5	23 25	14.0 - 21.0	8.0	79.0
NVNZ-M329S-13	M32x1.5	29 32	14.0 - 21.0	13.0	80.5
NVNZ-M329S-8	M32x1.5	29 32	14.0 - 21.0	8.0	75.5
NVNZ-M409S-13	M40x1.5	29 32	19.0 - 27.0	13.0	86.0
NVNZ-M409S-8	M40x1.5	29 32	19.0 - 27.0	8.0	81.0
NVNZ-M406S-13	M40x1.5	36 40	19.0 - 27.0	13.0	99.0
NVNZ-M406S-8	M40x1.5	36 40	19.0 - 27.0	8.0	94.0
NVNZ-M506S-14	M50x1.5	36 40	24.0 - 35.0	14.0	106.0
NVNZ-M506S-9	M50x1.5	36 40	24.0 - 35.0	9.0	101.0
NVNZ-M508S-14	M50x1.5	48 50	24.0 - 35.0	14.0	104.5
NVNZ-M508S-9	M50x1.5	48 50	24.0 - 35.0	9.0	99.5
NVNZ-M638S-14	M63x1.5	48 50	32.0 - 42.0	14.0	110.0
NVNZ-M638S-10	M63x1.5	48 50	32.0 - 42.0	10.0	106.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35002

要了解详细技术规格, 请索取 "技术数据表" DB-Nr.35002

unit = mm

单位 = mm



- High-grade, specially formulated polyamide 6
- Thread made of nickel plated brass
- Jacob PERFECT sealing insert with sealing insert with sealing ring made from CR / NBR
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 5 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- Easy installation
- High conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarses (G)
- Temperature range: -40°C to +105°C; Short-term: +160°C
- Content of delivery:
- Complete: Fitting with oval clips (OVN2), sealing insert, conduit seal (NVN3), O-ring (OR)

- 高级, 特殊配方聚酰胺6
- 螺纹: 黄铜镀镍
- Jacob PERFECT密封插入件, 其密封环由CR / NBR制成
- 非常高的抗冲击强度
- 结合消除应力组件, 在电缆处提供最适当的防护 (可达IP68 / 5巴)
- 极高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 易于安装
- 高强度的抗拉能力
- 非常好的化学性能
- 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
- 包装配件:
- 整套: 管接头和通用安全夹子 (OVN2), 密封插入件, 软管密封圈 (NVN3); O型圈 (OR)

IP66/IP68

VNZ straight, PG, strain relief, metal

In railway vehicle and heavy machine construction

Furthermore, these connectors can especially be used where damp and dry areas have to be separated.

VNZ 直型, PG, 消除应力, 金属螺纹

通常用于轨道车辆和重型机械制造。

此外, 这些管接头可被特别用于间隔干湿区域。

CE 

Order No. black 订货号 黑色	Thread PG 螺纹 PG	Fits to conduit size NW 适配软管尺寸 标称内径 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总长度	MOQ (pcs) 最小起订量 黑色
NVNZ-P07MS	07	07 10	3.0 - 6.5	5.0	45.0	-
NVNZ-P090S	09	10 12	4.0 - 8.0	6.0	53.0	-
NVNZ-P110S	11	10 12	5.0 - 10.0	6.0	54.5	-
NVNZ-P112S	11	12 16	5.0 - 10.0	6.0	57.0	-
NVNZ-P167S	16	17 20	10.0 - 14.0	6.5	64.5	-
NVNZ-P213S	21	23 25	13.0 - 18.0	7.0	73.0	-
NVNZ-P299S	29	29 32	18.0 - 25.0	8.0	78.0	-
NVNZ-P366S	36	36 40	24.0 - 32.0	9.0	94.0	-
# NVNZ-P368S/01	36	48 50	29.0 - 35.0	9.0	116.0	待定
NVNZ-P488S	48	48 50	34.0 - 44.0	10.0	102.0	-

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35000

要了解详细技术规格, 请索取 "技术数据表" DB-Nr.35000

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, specially formulated polyamide 6
- Thread made of nickel-plated brass
- Jacob PERFECT sealing insert with sealing ring made from CR / NBR
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 5 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- Easy assembly
- High conduit pull-out strength
- 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; Short-term: +160°C
- Content of delivery:
- IP68: Fitting with oval clips (OVN2), sealing insert, conduit and thread seal (NVN3, OR)

- 高级, 特殊合成聚酰胺6制成
- 螺纹: 黄铜镀镍
- Jacob PERFECT密封插入件, 其密封环由CR / NBR制成
- 非常高的抗冲击性
- 结合消除应力组件, 在电缆处提供最适当的防护 (最高可达IP68 / 5巴)
- 高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 易于安装;
- 高强度的抗拉能力
- 非常好的化学性能;
- 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
- 包装配件:
- IP68: 管接头和椭圆形夹子 (OVN2), 密封插入件 软管和O型密封圈 (NVN3, OR)



- High-grade, specially formulated polyamide 6
- Thread made of nickel-plated brass
- Jacob PERFECT sealing insert with sealing ring made from CR / NBR
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 5 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- Easy assembly
- High conduit pull-out strength
- 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; **Short-term:** +160°C
- **Content of delivery:**
IP68: Fitting with oval clips (OVN2), sealing insert, conduit and thread seal (NVN3, OR)

- 高级，特殊合成聚酰胺6制成
- 螺纹：黄铜镀镍
- Jacob PERFECT密封插入件，其密封环由CR / NBR制成
- 非常高的抗冲击性
- 结合消除应力组件，在电缆处提供最适当的防护（最高可达 IP68 / 5巴）
- 高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 易于安装
- 高强度的抗拉能力
- 非常好的化学性能
- 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
- 包装配件：
IP68：管接头和椭圆形夹子（OVN2），密封插入件，软管和O型密封圈（NVN3, OR）



- High-grade, specially formulated polyamide 6
- Thread made of nickel-plated brass
- Jacob PERFECT sealing insert with sealing ring made from CR / NBR
- Very high impact resistance
- With integrated strain relief and optimal ingress protection at the cable (up to IP68 / 5 bar)
- High thread and system connection strength
- Vibration-resistant connection to PMAFLEX conduits
- Easy assembly; High conduit pull-out strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits both conduit profiles-fine (T) and coarse (G)
- **Temperature range:** -40°C to +105°C; **Short-term:** +160°C
- **Content of delivery:**
IP68: Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SVN4)

- 高级，特殊配方聚酰胺6制成
- 螺纹：黄铜镀镍
- Jacob PERFECT密封插入件，其密封环由CR / NBR制成
- 非常高的抗冲击强度
- 结合消除应力组件，在电缆处提供最适当的防护（最高可达 IP68 / 5巴）
- 高强度的螺纹和系统连接
- 配合PMAFLEX软管使用具有很好的防震作用
- 安装方便；高强度的抗拉能力
- 非常好的化学性能
- 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
- 包装配件：
IP68：管接头和椭圆形夹子（OVN2），软管密封圈（NVN3）和螺纹垫圈（SVN4）

IP68

VNZ straight, PG,
strain relief, metal, long

*In railway vehicle and heavy machine construction.
Furthermore, these connectors can especially be used where damp and dry areas have to be separated.*



VNZ 直型, PG,
消除应力, 金属长螺纹

通常用于轨道车辆和重型机械制造。
此外，这些管接头可被特别用于间隔干湿区域。

Order No. IP68, black 订货号 黑色	Thread PG 螺纹 PG	Fits to conduit size NW 适配软管尺寸 标称内径	metric 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度
NVNZ-P090S-L	09	10	12	4.0 - 8.0	15.0	62.0
NVNZ-P110S-L	11	10	12	4.0 - 8.0	15.0	64.0
NVNZ-P112S-L	11	12	16	5.0 - 10.0	15.0	66.0
NVNZ-P167S-L	16	17	20	10.0 - 14.0	15.0	73.0
NVNZ-P213S-L	21	23	25	13.0 - 18.0	15.0	81.0
NVNZ-P299S-L	29	29	32	18.0 - 25.0	15.0	85.0
NVNZ-P366S-L	36	36	40	24.0 - 32.0	15.0	100.0
NVNZ-P488S-L	48	48	50	34.0 - 44.0	15.0	107.0

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35001
要了解详细技术规格，请索取“技术数据表”DB-Nr.35001

unit = mm
单位 = mm

IP66/IP68

VNZ straight, NPT,
strain relief, metal

*In railway vehicle and heavy machine construction.
Furthermore, these connectors can especially be used where damp and dry areas have to be separated.*



VNZ 直型, NPT,
消除应力, 金属螺纹

通常用于轨道车辆和重型机械制造。
此外，这些管接头可被特别用于间隔干湿区域。

Order No. black 订货号 黑色	Thread NPT 螺纹 NPT	Fits to conduit size NW 适配软管 尺寸 标称内径 公制	Single Cable range 单根电缆 直径范围	Thread length 螺纹 长度	Overall length 总 长度	MOQ (pcs) 最小起订量 黑色
# NVNZ-N076	1 1/4"	36 40	24.0 - 32.0	17.0	115.0	待定

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.35003
要了解详细技术规格，请索取“技术数据表”DB-Nr.35003
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

MDE multiple sealing inserts

To seal many individual wires/cables. Suitable for VNZ/KNZ connectors with Jacob insert with metric metal thread.

MDE 多孔密封插入件

密封多根电线/电缆。
适合VNZ/KNZ带Jacob消除应力插入件的公制金属螺纹管接头。



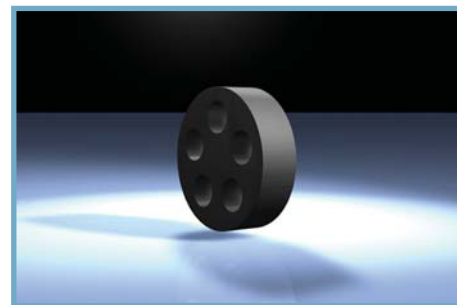
Order No. Black 订货号 黑色	Thread size of VNZ/KNZ connector Metric metal thread VNZ/KNZ管接头的螺纹尺寸 公制金属螺纹	Numbers of bores x hole diameter(mm) 孔数和孔径 (毫米)				MOQ(pcs) 最小起订量
# MDE-M16-*x*	M16 x 1.5	2 x 4				50
# MDE-M20-*x*	M20 x 1.5	2 x 6	4 x 5			50
# MDE-M25-*x*	M25 x 1.5	3 x 7	4 x 5	4 x 6		50
# MDE-M32-*x*	M32 x 1.5	2 x 8	4 x 7	4 x 8	4 x 8.5	25
# MDE-M40-*x*	M40 x 1.5	4 x 10	8 x 6.5			10

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.62055

要了解详细技术规格, 请索取“技术数据表” DB-Nr.62055

标记为 # 的产品有最小起订量 (MOQ)

unit = mm
单位 = mm



- Material CR / NBR
- To seal many individual wires / cables
- Type of protection: IP65 if diameter of bore holes in the sealing insert and cable diameter are almost identical
- Temperature range: -40°C to +105°C; Shot-term: +120°C

- 材质为CR / NBR
- 用于密封多根电线 / 电缆
- 防护等级: 如果密封插入件的孔径和电缆直径几乎相同, 则防护等级为IP65
- 温度范围: -40°C 至 +105°C; 短期温度: +120°C;

MDE multiple sealing inserts

To seal many individual wires/cables. Suitable for VNZ connectors with Jacob insert with PG metal/polyamide and metric polyamide thread.

MDE 多孔密封插入件

密封多根电线/电缆。
适合VNZ带Jacob消除应力插入件的PG制金属或聚酰胺螺纹和公制聚酰胺螺纹管接头。



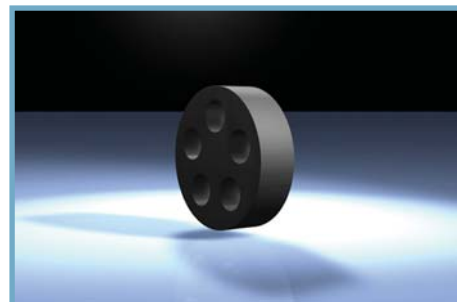
Order No. black 订货号 黑色	Thread size of VNZconnector PG metal/polyamide metric polyamide VNZ管接头的螺纹尺寸 PG金属/聚酰胺 公制聚酰胺		Numbers of bores x hole diameter(mm) 孔数和孔径 (毫米)				MOQ(pcs) 最小起订量
# MDE-P09-*x*	09	M12 x 1.5	2 x 3	3 x 2	3 x 3.5		50 / 待定 / 50
# MDE-P11-*x*	11	M16 x 1.5	2 x 3	2 x 4	2 x 4.5	3 x 4	50
# MDE-P13-*x*	13.5	M20 x 1.5	2 x 5				50
# MDE-P16-*x*	16	M20 x 1.5	2 x 4	2 x 6	3 x 4	3 x 5	50
			4 x 6	5 x 4			50
# MDE-P21-*x*	21	M25 x 1.5	3 x 7				50
# MDE-P29-*x*	29	M32 x 1.5	6 x 5	6 x 7.5			50

For technical specification in details, please ask for "Technical Data Sheet" DB-Nr.62054

要了解详细技术规格, 请索取“技术数据表” DB-Nr.62054

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



- Material CR / NBR
- To sea many individual wires / cables
- Type of protection: IP65 if diameter of bore holes in the sealing insert and cable diameter are almost identical
- Temperature range: -40°C to +105°C; Shot-term: +120°C

- 材质为CR / NBR
- 用于密封多根电线 / 电缆
- 防护等级: 如果密封插入件的孔径和电缆直径几乎相同, 则防护等级为IP65
- 温度范围: -40°C 至 +105°C; 短期温度: +120°C;

Note:

注意:

Other combinations of number of bores and hole diamater are available on request.

不同的孔数和孔径的组合可按需要提供。