

Fittings for Nylon Flexible Conduits VN Straight, Metric, Polyamide

The designation PMAFIX® describes a very large range of fittings for PMA conduits with the patented PMA® safety clip system. Fittings are available for ingress protection IP66 and IP68. IP66 fittings are fitted with a pre-installed universal safety clip that ensures a quick push-in installation. IP68 fittings for increased requirements will be delivered with a special conduit sealing ring. The new PMAFIX IP68GT fittings combine simplest push-in assembly with highest sealing performance.

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Can be easily re-opened with a screwdriver
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles

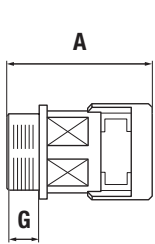


Temperature range: -40 to 105 °C

Short term: Max. 160 °C

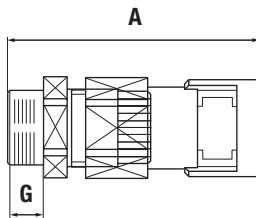
Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)



G
Thread
Length

A
Overall
Length



G
Thread Length

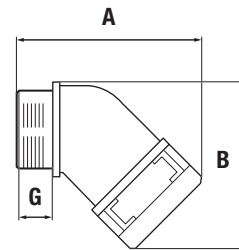
A
Overall Length



Cat. No. IP66	Cat. No. IP68 ▲	Thread Metric	Fits to Conduit		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
_VND-M12MGT	_VNV-M12M	M12x1.5	7	10	11.0	34.5
_VND-M120GT	_VNV-M120		10	12		36.5
_VND-M160GT	_VNV-M160	M16x1.5	12	16		36.5
_VND-M162GT	_VNV-M162		10	12		39.5
_VND-M200GT	_VNV-M200	M20x1.5	12	16		39.5
_VND-M202GT	_VNV-M202		17	20		47.5
_VND-M207GT	_VNV-M207		23	25	51.0	
_VND-M203GT	_VNV-M203		17	20	48.5	
_VND-M257GT	_VNV-M257	M25x1.5	23	25	12.0	52.0
_VND-M253GT	_VNV-M253		29	32		55.5
_VND-M323GT	_VNV-M323	M32x1.5	29	32	15.0	56.0
_VND-M329GT	_VNV-M329					60.0
_VND-M409GT	_VNV-M409	M40x1.5	36	40	19.0	72.5
_VND-M406GT	_VNV-M406					72.0
_VND-M506GT	_VNV-M506	M50x1.5	48	50		72.5
_VND-M508GT	_VNV-M508					72.0
_VND-M638GT	_VNV-M638	M63x1.5				72.0

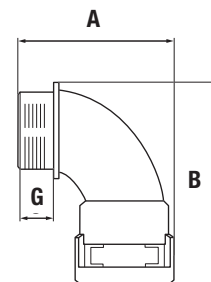
_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28-E29).



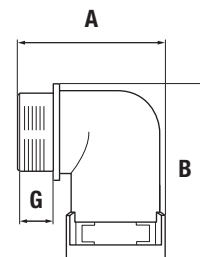
G
Thread
Length

A x B
External
dimensions



G
Thread
Length

A x B
External
dimensions



G
Thread
Length

A x B
External
dimensions

Fittings for Nylon Flexible Conduits

VNZ Straight, Metric, Strain Relief, Polyamide

- For cable protection systems in a wide range of applications
- For separation of damp and dry areas
- High-grade formulated polyamide 6, very high impact resistance
- Easy installation: simply push the conduit in
- High conduit pullout strength
- Integrated strain relief optimally holds and seals cables
- If several conductors are used with the connector, multi-hole bushings should be considered
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread Metric	Conduit Size		Bushing dia. Range (mm)	Thread Length (mm)	Overall Length (mm)
			NW	Metric			
_VNDZ-M160GT	—	M16x1.5	10	12	5.0–10.0	8.0	62.0
_VNDZ-M162GT	_VNZ-M162S		12	16			
_VNDZ-M207GT	_VNZ-M207S	M20x1.5	17	20	10.0–14.0	10.0	71.5
_VNDZ-M253GT	_VNZ-M253S	M25x1.5	23	25	13.0–18.0		81.0
_VNDZ-M329GT	_VNZ-M329S	M32x1.5	29	32	18.0–25.0	12.0	85.0
_VNDZ-M406GT	_VNZ-M406S	M40x1.5	36	40	22.0–32.0		116.5
_VNDZ-M508GT	_VNZ-M508S	M50x1.5	48	50	30.0–38.0	12.0	120.5
_VNDZ-M638GT	_VNZ-M638S	M63x1.5	48	50	34.0–44.0		

_ = Insert "B" to order black or "S" to order grey.

Note: MDE multiple sealing inserts are available for this product.

▲ IP68GT available. Please replace final "S" with "GT".

(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2) and strain-relief bushing
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), strain-relief bushing, conduit seal (NVN3) and thread gasket (SNV4)

VA 45° Elbow, Metric, Polyamide

- For cable protection systems in a wide range of applications
- High-grade specially formulated polyamide 6
- Extremely high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread Metric	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
_VAD-M120GT	—	M12x1.5	10	12	11.0	43.5 x 37.0
_VAD-M160GT	_VAV-M160					43.5 x 38.0
_VAD-M162GT	_VAV-M162	M16x1.5	12	16	15.0	48.0 x 40.0
_VAD-M202GT	_VAV-M202					48.0 x 41.5
_VAD-M207GT	_VAV-M207	M20x1.5	17	20	12.0	55.5 x 51.5
_VAD-M253GT	_VAV-M253	M25x1.5	23	25		65.0 x 58.5
_VAD-M329GT	_VAV-M329	M32x1.5	29	32	19.0	73.5 x 66.5
_VAD-M406GT	_VAV-M406	M40x1.5	36	40		92.5 x 85.5
_VAD-M506GT	_VAV-M506	M50x1.5	48	50	19.0	92.5 x 89.5
_VAD-M508GT	_VAV-M508					100.0 x 96.0
_VAD-M638GT	_VAV-M638	M63x1.5				100.0 x 104.0

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.

(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits VB 90° Curved Elbow, Metric, Polyamide

- For cable protection systems in a wide range of applications
- High-grade specially formulated polyamide
- Easy installation, high conduit pull-out strength
- Easy threading of wires and cables
- Self extinguishing
- Free from halogens and phosphor
- Excellent impact strength
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread Metric	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
_VBD-M207GT	_VBV-M207	M20x1.5	17	20	11.0	47.5 x 73.0
_VBD-M257GT	_VBV-M257	M25x1.5	23	25	12.0	48.5 x 76.0
_VBD-M253GT	_VBV-M253					57.5 x 83.0
_VBD-M323GT	_VBV-M323	M32x1.5	29	32	15.0	61.0 x 87.5
_VBD-M329GT	_VBV-M329					70.5 x 93.0
_VBD-M409GT	_VBV-M409	M40x1.5	36	40	19.0	74.5 x 98.5
_VBD-M406GT	_VBV-M406					85.0 x 121.0
_VBD-M506GT	_VBV-M506	M50x1.5	48	50	19.0	85.0 x 125.0
_VBD-M508GT	_VBV-M508					98.5 x 130.0
_VBD-M638GT	_VBV-M638	M63x1.5				98.5 x 138.0

_ = Insert with "B" to order black or "S" to order grey.

For smaller conduit sizes NW 07 to NW 12, appropriate standard elbows of type VW are available.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, (pages E28–E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

IP66 Fitting with pre-installed universal safety clips (AFN2)

IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)

IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VW 90° Elbow, Metric, Polyamide

- For cable protection systems in a wide range of applications
- High-grade specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy installation: simply push the conduit in
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread Metric	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
_VWD-M12MGT	_VWV-M12M	M12x1.5	7	10	11.0	32.0 x 35.0
_VWD-M120GT	_VWV-M120		10	12		34.0 x 39.5
_VWD-M160GT	_VWV-M160	M16x1.5	12	16	11.0	34.0 x 40.5
_VWD-M162GT	_VWV-M162					38.5 x 46.0
_VWD-M200GT	—	M20x1.5	10	12	11.0	34.0 x 42.5
_VWD-M202GT	_VWV-M202		12	16		38.5 x 47.5
_VWD-M207GT	_VWV-M207	M25x1.5	17	20	12.0	43.5 x 58.5
_VWD-M253GT	_VWV-M253		23	25		54.0 x 65.0
_VWD-M329GT	_VWV-M329	M32x1.5	29	29	15.0	64.5 x 73.0
_VWD-M406GT	_VWV-M406	M40x1.5	36	36	19.0	78.0 x 96.0
_VWD-M508GT	_VWV-M508	M50x1.5	48	48		91.5 x 106.0

_ = Insert with "B" to order black or "S" to order grey.

For the sizes NW 17 to NW 48, curved elbows of type VB are available.

▲ IP68GT available. Please add "GT" after the Catalog no.
(Functional description PMAFIX IP68GT, (pages E28–E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

IP66 Fitting with pre-installed universal safety clips (AFN2)

IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)

IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits

VN Straight, Metric, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- High-grade specially formulated polyamide
- Threads made of nickel-plated brass
- Self extinguishing
- Free from halogens and cadmium
- Excellent impact strength
- Extremely high thread and system pullout resistance
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black ▲	Cat. No. IP68, Grey ▲	Thread Metric	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
NVNV-M120-10	MVNV-M120-10	M12x1.5	10	12	10.0	40.0
NVNV-M120-5	MVNV-M120-5				5.0	35.0
NVNV-M160-10	MVNV-M160-10				10.0	40.0
NVNV-M160-5	MVNV-M160-5	M16x1.5	12	16	5.0	35.0
NVNV-M162-10	MVNV-M162-10				10.0	43.0
NVNV-M162-5	MVNV-M162-5				5.0	38.0
NVNV-M202-10	MVNV-M202-10	M20x1.5	17	20	10.0	43.0
NVNV-M202-6	MVNV-M202-6				6.0	39.0
NVNV-M207-10	MVNV-M207-10				10.0	51.0
NVNV-M207-6	MVNV-M207-6	M25x1.5	23	25	6.0	47.0
NVNV-M257-11	MVNV-M257-11				11.0	52.0
NVNV-M257-7	MVNV-M257-7				7.0	48.0
NVNV-M253-11	MVNV-M253-11	M32x1.5	29	32	11.0	54.0
NVNV-M253-7	MVNV-M253-7				7.0	50.0
NVNV-M323-13	MVNV-M323-13				13.0	57.3
NVNV-M323-8	MVNV-M323-8	M40x1.5	36	40	8.0	51.0
NVNV-M329-13	MVNV-M329-13				13.0	57.3
NVNV-M329-8	MVNV-M329-8				8.0	52.3
NVNV-M409-13	MVNV-M409-13	M50x1.5	48	50	13.0	57.3
NVNV-M409-8	MVNV-M409-8				8.0	52.3
NVNV-M406-13	MVNV-M406-13				13.0	71.4
NVNV-M406-8	MVNV-M406-8	M63x1.5			8.0	66.4
NVNV-M506-14	MVNV-M506-14				14.0	72.4
NVNV-M506-9	MVNV-M506-9				9.0	67.4
NVNV-M508-14	MVNV-M508-14				14.0	72.4
NVNV-M508-9	MVNV-M508-9				9.0	67.4
NVNV-M638-14	MVNV-M638-14				14.0	72.4

▲ IP68GT available. Please add "GT" prior to the thread length (for example, NVNV-M120GT-10).
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4 or OR)

Fittings for Nylon Flexible Conduits

VNZ Straight, Metric, Strain Relief, Metal/Polyamide



Cat. No. Complete, Black ▲	Cat. No. Fitting * ▲	Cat. No. Insert	Thread Metric	Fits to Conduit Size		Terminal Range (mm)	Thread Length (mm)	Overall Length (mm)
				NW	Metric			
NVNZ-M120S/P1	NVNZ-M120R/P	DE-M120/P1	M12x1.5	10	12	4.0-6.5	5.0	48.5
NVNZ-M120S/P2		DE-M120/P2				5.0-8.0		
NVNZ-M120S/P3		DE-M120/P3				6.5-9.5		
NVNZ-M160S/P1	NVNZ-M160R/P	DE-M160/P1	M16x1.5			4.0-6.5	6.0	49.5
NVNZ-M160S/P2		DE-M160/P2				5.0-8.0		
NVNZ-M160S/P3		DE-M160/P3				6.5-9.5		
NVNZ-M202S/P1	NVNZ-M202R/P	DE-M202/P1	M20x1.5	12	16	4.0-6.5	6.5	60.0
NVNZ-M202S/P3		DE-M202/P3				6.5-9.5		
NVNZ-M202S/P4		DE-M202/P4				7.0-10.5		
NVNZ-M207S/P3	NVNZ-M207R/P	DE-M207/P3	M20x1.5	17	20	6.5-9.5	7.5	61.5
NVNZ-M207S/P4		DE-M207/P4				7.0-10.5		
NVNZ-M207S/P5		DE-M207/P5				9.0-13.0		
NVNZ-M253S/P5	NVNZ-M253R/P	DE-M253/P5	M25x1.5	23	25	9.0-13.0	8.0	73.0
NVNZ-M253S/P6		DE-M253/P6				11.5-15.5		
NVNZ-M257S/P4	NVNZ-M257R/P	DE-M257/P4				7.0-10.0		
NVNZ-M257S/P5		DE-M257/P5	M25x1.5	17	20	9.0-13.0	7.5	61.5
NVNZ-M257S/P6		DE-M257/P6				11.5-15.5		
NVNZ-M323S/P4	NVNZ-M323R/P	DE-M323/P4				14.0-18.0		
NVNZ-M323S/P5	NVNZ-M323R1/P	DE-M323/P5	M32x1.5	23	25	17.0-20.5	8.0	73.0
NVNZ-M329S/P2	NVNZ-M329R/P	DE-M329/P2				14.0-18.0		
NVNZ-M329S/P3		DE-M329/P3				17.0-20.5		
NVNZ-M329S/P4		DE-M329/P4	20.0-25.0					
NVNZ-M406S/P1	NVNZ-M406R/P	DE-M406/P1	M40x1.5	36	40	20.0-25.0	9.0	87.0
NVNZ-M406S/P2		DE-M406/P2				24.0-28.0		
NVNZ-M409S/P1	NVNZ-M409R/P	DE-M409/P1				11.5-15.5		
NVNZ-M409S/P2		DE-M409/P2	M40x1.5	29	32	14.0-18.0	8.0	73.0
NVNZ-M409S/P3		DE-M409/P3				17.0-20.5		
NVNZ-M409S/P4		DE-M409/P4				20.0-25.0		
NVNZ-M409S/P5		DE-M409/P5	24.0-28.0					
NVNZ-M506S/P1	NVNZ-M506R/P	DE-M506/P1	M50x1.5	36	40	27.0-32.0	9.0	89.5
NVNZ-M506S/P3		DE-M506/P3				32.0-36.0		
NVNZ-M508S/P2	NVNZ-M508R/P	DE-M508/P2				32.0-36.0		
NVNZ-M508S/P3		DE-M508/P3	36.0-40.0					
NVNZ-M638S/P1	NVNZ-M638R/P	DE-M638/P1	M63x1.5	48	50	35.0-40.0	10.0	90.5
NVNZ-M638S/P2		DE-M638/P2				39.0-44.0		

* = without insert

Note: MDE multiple sealing inserts are available for this product.

▲ IP68GT available. Please replace "S" or "R" with "GT" (for example, NVNZ-M120GT/P1, NVNZ-M120GT/P). (Functional description PMAFIX IP68GT, pages E28-E29).

- Use in railway vehicle and heavy machine construction and for the separation of damp and dry areas
- High-grade, specially formulated polyamide 6
- Threads made of nickel-plated brass
- Sealing bushings are made from TPE-V
- Very high impact resistance
- Integrated strain-relief and optimal ingress protection at the cable (up to IP68/10 bar)
- High thread and system pullout resistance
- Vibration-resistant connection to PMAFLEX[®] conduits
- Easy assembly
- Very good chemical properties
- Polyamide free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles
- For several conductors, multi-hole bushings are available (MDE)

Temperature range: -40 to 105 °C

Short term: Max. 135 °C

Content of delivery:

IP68GT

Complete Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT), sealing bushing and O-ring (OR)

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

IP68

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

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

Fittings for Nylon Flexible Conduits

VNZ Straight, Metric, Strain Relief, Metal/Polyamide (cont'd)



Cat. No. Complete, Black ▲	Cat. No. Fitting * ▲	Cat. No. Insert	Thread Metric	Fits to Conduit Size		Terminal Range (mm)	Thread Length (mm)	Overall Length (mm)
				NW	Metric			
NVNZ-M160S/P1-L	NVNZ-M160R/P-L	DE-M160/P1	M16x1.5	10	12	4.0-6.5	15.0	58.5
NVNZ-M160S/P2-L		DE-M160/P2				5.0-8.0		
NVNZ-M160S/P3-L		DE-M160/P3				6.5-9.5		
NVNZ-M202S/P1-L	NVNZ-M202R/P-L	DE-M202/P1	M20x1.5	12	16	4.0-6.5	15.0	62.5
NVNZ-M202S/P3-L		DE-M202/P3				6.5-9.5		
NVNZ-M202S/P4-L		DE-M202/P4				7.0-10.5		
NVNZ-M207S/P3-L	NVNZ-M207R/P-L	DE-M207/P3	M20x1.5	17	20	6.5-9.5	15.0	68.5
NVNZ-M207S/P4-L		DE-M207/P4				7.0-10.5		
NVNZ-M207S/P5-L		DE-M207/P5				9.0-13.0		
NVNZ-M257S/P5-L	NVNZ-M257R/P-L	DE-M257/P5	M25x1.5			9.0-13.0	15.0	69.0
NVNZ-M257S/P6-L		DE-M257/P6				11.5-15.5		
NVNZ-M323S/P4-L	NVNZ-M323R/P-L	DE-M323/P4	M32x1.5			14.0-18.0	15.0	80.0
NVNZ-M323S/P5-L		DE-M323/P5				17.0-20.5		
NVNZ-M329S/P2-L	NVNZ-M329R/P-L	DE-M329/P2	M32x1.5			14.0-18.0	15.0	91.0
NVNZ-M329S/P3-L		DE-M329/P3				17.0-20.5		
NVNZ-M409S/P3-L		DE-M409/P3				17.0-20.5		
NVNZ-M409S/P4-L	NVNZ-M409R/P-L	DE-M409/P4	M40x1.5			20.0-25.0	15.0	80.0
NVNZ-M409S/P5-L		DE-M409/P5				24.0-28.0		
NVNZ-M506S/P1-L		DE-M506/P1				27.0-32.0		
NVNZ-M506S/P3-L	NVNZ-M506R/P-L	DE-M506/P3	M50x1.5			32.0-36.0	15.0	94.5
NVNZ-M508S/P2-L		DE-M508/P2				32.0-36.0		
NVNZ-M508S/P3-L		DE-M508/P3				36.0-40.0		
NVNZ-M638S/P1-L	NVNZ-M638R/P-L	DE-M638/P1	M63x1.5			35.0-40.0	15.0	95.5
NVNZ-M638S/P2-L		DE-M638/P2				39.0-44.0		

* = without insert

Note: MDE multiple sealing inserts are available for this product.

▲ IP68GT available. Please replace "S" or "R" with "GT" (for example, NVNZ-M120GT/P1).
(Functional description PMAFIX IP68GT, pages E28-E29).

Fittings for Nylon Flexible Conduits VA 45° Elbow, Metric, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- Body made of specially formulated polyamide 6
- Threads made of nickel-plated brass
- Very high impact resistance
- High thread and system pullout resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy assembly
- Very good chemical properties
- Polyamide free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black ▲	Cat. No. IP68, Grey ▲	Thread Metric	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
NVAV-M120-10	MVAV-M120-10	M12x1.5	10	12	10.0	48.5 x 37.0
NVAV-M120-5	MVAV-M120-5				5.0	43.5 x 37.0
NVAV-M162-10	MVAV-M162-10	M16x1.5	12	16	10.0	53.0 x 40.5
NVAV-M162-5	MVAV-M162-5				5.0	48.0 x 40.5
NVAV-M207-10	MVAV-M207-10	M20x1.5	17	20	10.0	60.5 x 51.5
NVAV-M207-6	MVAV-M207-6				6.0	56.5 x 51.5
NVAV-M253-11	MVAV-M253-11	M25x1.5	23	25	11.0	70.0 x 60.5
NVAV-M253-7	MVAV-M253-7				7.0	66.0 x 60.5
NVAV-M257-11	MVAV-M257-11	M32x1.5	23	25	11.0	61.5 x 54.5
NVAV-M323-13	MVAV-M323-13				13.0	72.0 x 64.5
NVAV-M329-13	MVAV-M329-13	M32x1.5	29	32	8.0	72.0 x 68.0
NVAV-M329-8	MVAV-M329-8				8.0	72.0 x 68.0
NVAV-M406-13	MVAV-M406-13	M40x1.5	36	40	13.0	94.0 x 87.5
NVAV-M406-8	MVAV-M406-8				8.0	89.0 x 87.5
NVAV-M409-13	MVAV-M409-13	M50x1.5	29	32	13.0	77.0 x 73.0
NVAV-M506-14	MVAV-M506-14				14.0	95.0 x 92.5
NVAV-M508-14	MVAV-M508-14	M50x1.5	48	50	14.0	102.0 x 101.0
NVAV-M508-9	MVAV-M508-9				9.0	97.0 x 101.0
NVAV-M638-14	MVAV-M638-14	M63x1.5	48	50	14.0	102.0 x 104.0
NVAV-M638-10	MVAV-M638-10				10.0	98.0 x 104.0

▲ IP68GT available. Please add "GT" prior to the thread length (e.g. NVAV-M120GT-10).
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4 or OR)

VB 90° Curved Elbow, Metric, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- Body made of high-grade formulated polyamide
- Threads made of nickel-plated brass
- Self extinguishing
- Free from halogens and cadmium
- Excellent impact strength
- Extremely high thread and system connection strength
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black ▲	Cat. No. IP68, Grey ▲	Thread Metric	Fits to Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
NVBV-M207-10	MVBV-M207-10	M20x1.5	17	20	10.0	51.0 x 73.0
NVBV-M207-6	MVBV-M207-6				6.0	47.0 x 73.0
NVBV-M257-11	MVBV-M257-11	M25x1.5	23	25	11.0	52.0 x 76.0
NVBV-M257-7	MVBV-M257-7				7.0	48.0 x 76.0
NVBV-M253-11	MVBV-M253-11	M32x1.5	23	25	11.0	62.5 x 85.0
NVBV-M253-7	MVBV-M253-7				7.0	58.5 x 85.0
NVBV-M323-13	MVBV-M323-13	M32x1.5	29	32	13.0	64.5 x 89.0
NVBV-M323-8	MVBV-M323-8				8.0	59.5 x 89.0
NVBV-M329-13	MVBV-M329-13	M40x1.5	29	32	13.0	74.0 x 94.5
NVBV-M329-8	MVBV-M329-8				8.0	69.0 x 94.5
NVBV-M409-13	MVBV-M409-13	M40x1.5	36	40	13.0	75.5 x 100.5
NVBV-M409-8	MVBV-M409-8				8.0	70.5 x 100.5
NVBV-M406-13	MVBV-M406-13	M50x1.5	36	40	13.0	86.5 x 123.0
NVBV-M406-8	MVBV-M406-8				8.0	81.5 x 123.0
NVBV-M506-14	MVBV-M506-14	M50x1.5	48	50	14.0	87.5 x 130.0
NVBV-M506-9	MVBV-M506-9				9.0	82.5 x 130.0
NVBV-M508-14	MVBV-M508-14	M50x1.5	48	50	14.0	100.5 x 135.0
NVBV-M508-9	MVBV-M508-9				9.0	95.5 x 135.0
NVBV-M638-10	MVBV-M638-10	M63x1.5	48	50	14.0	100.5 x 138.0
NVBV-M638-14	MVBV-M638-14				10.0	96.5 x 138.0

Appropriate standard elbows of type VW are available for smaller conduit sizes NW 10 to NW 12.

▲ IP68GT available. Please add "GT" prior to the thread length (e.g. NVBV-M207GT-10).
(Functional description PMAFIX IP68GT, pages E28–E29).



Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits

VW 90° Elbow, Metric, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- Body made of high-grade formulated polyamide
- Threads made of nickel-plated brass
- Self extinguishing
- Free from halogens and cadmium
- Excellent impact strength
- Extremely high thread and system pullout resistance
- Fits fine (T) and coarse (G) conduit profiles



Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT** Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4 or OR)
- IP68** Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4 or OR)

Cat. No. IP68, Black ▲	Cat. No. IP68, Grey ▲	Thread Metric	Fits to Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
NVWV-M120-10	MVWV-M120-10	M12x1.5	10	12	10.0	37.5 x 39.5
NVWV-M120-5	MVWV-M120-5				5.0	32.5 x 39.5
NVWV-M160-10	MVWV-M160-10				10.0	37.5 x 41.5
NVWV-M160-5	MVWV-M160-5	M16x1.5	12	16	5.0	32.5 x 41.5
NVWV-M162-10	MVWV-M162-10				10.0	42.0 x 46.5
NVWV-M162-5	MVWV-M162-5				5.0	37.0 x 46.5
NVWV-M202-10	MVWV-M202-10	M20x1.5	17	20	10.0	42.0 x 49.0
NVWV-M202-6	MVWV-M202-6				6.0	38.0 x 49.0
NVWV-M207-10	MVWV-M207-10				10.0	47.0 x 58.5
NVWV-M207-6	MVWV-M207-6	M25x1.5	23	25	6.0	43.0 x 58.5
NVWV-M253-11	MVWV-M253-11				11.0	59.0 x 67.0
NVWV-M253-7	MVWV-M253-7				7.0	55.0 x 67.0
NVWV-M329-13	MVWV-M329-13	M32x1.5	29	32	13.0	68.0 x 74.5
NVWV-M329-8	MVWV-M329-8				8.0	63.0 x 74.5
NVWV-M406-13	MVWV-M406-13				13.0	80.5 x 98.0
NVWV-M406-8	MVWV-M406-8	M50x1.5	48	50	8.0	75.5 x 98.0
NVWV-M508-14	MVWV-M508-14				14.0	95.5 x 111.0
NVWV-M508-9	MVWV-M508-9				9.0	90.5 x 111.0
NVWV-M638-14	MVWV-M638-14	M63x1.5	48	50	14.0	94.5 x 114.0
NVWV-M638-10	MVWV-M638-10				10.0	90.5 x 114.0

▲ IP68GT available. Please add "GT" prior to the thread length (e.g. NVWV-M120GT-10).
 (Functional description PMAFIX IP68GT, pages E28-E29).

VWZ 90° Elbow, Metric, Strain Relief, Metal/Polyamide

- Use in railway vehicle construction and heavy machine construction
- Separate damp and dry areas
- PA straight fitting made from high-grade formulated polyamide with nickel-plated brass female threads
- Zinc diecast 90° elbow, with TPE-V bushing
- With corresponding seals, IP68 static/IP67 dynamic cable = IP68 (10 bar)
- Self extinguishing
- Free from halogens and cadmium
- Excellent impact strength
- Extremely high thread and system pullout resistance
- Fits fine (T) and coarse (G) conduit profiles



Temperature range: -40 to 105 °C
Short term: Max. 135 °C

Content of delivery:

- IP68GT**
- Complete** Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT), sealing bushing and O-ring (OR)
- Fitting*** Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and O-ring (OR)
- IP68**
- Complete** Fitting with oval clips (OVN2), sealing bushing, conduit seal (NVN3) and O-ring (OR)
- Fitting*** Fitting with oval clips (OVN2), conduit seal (NVN3) and O-ring (OR)

Cat. No. IP68 Complete, Black ▲	Cat. No. Fitting * ▲	Cat. No. Insert	Thread Metric	Conduit Size		Terminal Range (mm)	Thread Length (mm)	Overall Length (mm)
				NW	Metric			
NVWZ-M160S/P1	NVWZ-M160R/P	DE-M160/P1	M16x1.5	10	12	4.0-6.5	8.0	65.0
NVWZ-M160S/P2		DE-M160/P2				5.0-8.0		
NVWZ-M160S/P3		DE-M160/P3				6.5-9.5		
NVWZ-M202S/P1	NVWZ-M202R/P	DE-M202/P1	M20x1.5	12	16	4.0-6.5	8.0	74.5
NVWZ-M202S/P3		DE-M202/P3				6.5-9.5		
NVWZ-M202S/P4		DE-M202/P4				7.0-10.5		
NVWZ-M207S/P3	NVWZ-M207R/P	DE-M207/P3	M20x1.5	17	20	6.5-9.5	8.0	81.0
NVWZ-M207S/P4		DE-M207/P4				7.0-10.5		
NVWZ-M207S/P5		DE-M207/P5				9.0-13.0		
NVWZ-M257S/P5	NVWZ-M257R/P	DE-M257/P5	M25x1.5	48	50	9.0-13.0	8.0	84.0
NVWZ-M257S/P6		DE-M257/P6				11.5-15.5		

* = without insert

▲ IP68GT available. Please replace "S" with "GT" (for example NVWZ-M160GT/P1).
 (Functional description PMAFIX IP68GT, pages E28-E29).

Fittings for Nylon Flexible Conduits VN Straight, PG, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Cat. No. IP68	Cat. No. IP68 ▲	Thread PG	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
VND-P07MGT-11	VNV-P07M	7	7	10	11.0	34.5
VND-P07MGT-8	—			8.0	31.5	
VND-P070GT-11	VNV-P070		10	12	11.0	36.5
VND-P070GT-8	—			8.0	33.5	
VND-P072GT-11	VNV-P072		12	16	11.0	39.0
VND-P072GT-8	—			8.0	36.0	
VND-P09MGT-11	VNV-P09M	9	7	10	11.0	34.5
VND-P09MGT-8	—			8.0	31.5	
VND-P090GT-11	VNV-P090		10	12	11.0	36.5
VND-P090GT-8	—			8.0	33.5	
VND-P092GT-11	VNV-P092		12	16	11.0	39.0
VND-P092GT-8	—			8.0	36.0	
VND-P097GT-11	VNV-P097	17	20	11.0	47.5	
VND-P097GT-8	—		8.0	44.5		
VND-P11MGT-11	VNV-P11M		11	7	10	11.0
VND-P11MGT-8	—	8.0			31.5	
VND-P110GT-11	VNV-P110	10		12	11.0	36.5
VND-P110GT-8	—			8.0	33.5	
VND-P112GT-11	VNV-P112	12		16	11.0	39.0
VND-P112GT-8	—			8.0	36.0	
VND-P117GT-11	VNV-P117	17	20	11.0	47.5	
VND-P117GT-8	—		8.0	44.5		
VND-P13MGT-11	VNV-P13M	13.5	7	10	11.0	34.5
VND-P13MGT-8	—			8.0	31.5	
VND-P130GT-11	VNV-P130		10	12	11.0	36.5
VND-P130GT-8	—			8.0	33.5	
VND-P132GT-11	VNV-P132		12	16	11.0	39.0
VND-P132GT-8	—			8.0	36.0	
VND-P137GT-11	VNV-P137	17	20	11.0	47.5	
VND-P137GT-8	—		8.0	44.0		
VND-P160GT-11	—	16	10	12	11.0	36.5
VND-P160GT-8	—			8.0	33.5	
VND-P162GT-11	VNV-P162		12	16	11.0	39.0
VND-P163GT-11	VNV-P163			23	25	11.0
VND-P163GT-8	—		8.0		48.0	
VND-P167GT-11	VNV-P167		17	20	11.0	47.5
VND-P167GT-8	—	8.0		44.5		
VND-P213GT	VNV-P213	21	23	25	—	52.0
VND-P296GT	VNV-P296	29	36	40	12.0	67.5
VND-P299GT	VNV-P299		29	32		53.0
VND-P366GT	VNV-P366		36	36		40
VND-P368GT	VNV-P368	36	—	—	—	—
VND-P428GT	VNV-P428	42	48	50	13.0	68.5
VND-P488GT	VNV-P488	48				

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28-E29).

Fittings for Nylon Flexible Conduits

VNZ Straight, PG, Strain Relief, Polyamide

- For cable protection systems in a wide range of applications
- Separate damp and dry areas
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- High conduit pullout strength
- Easy mounting: simple push-in installation
- Integrated strain-relief optimally holds and seals cables
- If several conductors are used with the connector, multi-hole bushings should be considered
- Very good chemical properties
- Free from halogens and cadmium
- Excellent impact strength
- Fits fine (T) and coarse (G) conduit profiles



Temperature range: -40 to 105 °C
Short term: Max. 160 °C



Content of delivery:

- IP68GT** Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT), strain-relief bushing and thread gasket (SNV4)
- IP68** Fitting with oval clips (OVN2), strain-relief bushing, conduit seal (NVN3) and thread gasket (SNV4)
- For several conductors, multi-hole bushings are available (MDE)

Cat. No. IP66	Cat. No. IP68 ▲	Thread Metric	Conduit Size		Terminal Range (mm)	Thread Length (mm)	Overall Length (mm)
			NW	Metric			
VNDZ-P090GT	VNZ-P090S	9	10	12	4.0–8.0	8.0	53.0
VNDZ-P112GT	VNZ-P112S	11	12	16	5.0–10.0		59.0
VNDZ-P132GT	VNZ-P132S	13.5		17	20	6.0–12.0	9.0
VNDZ-P137GT	VNZ-P137S	13.5	23		25	10.0–14.0	10.0
VNDZ-P167GT	VNZ-P167S	16		29	32	13.0–18.0	12.0
VNDZ-P163GT	VNZ-P163S	16	29		32	18.0–25.0	11.0
VNDZ-P213GT	VNZ-P213S	21					
VNDZ-P299GT	VNZ-P299S	29					85.0

_ = Insert "B" to order black or "S" to order grey.

Note: MDE multiple sealing inserts are available for this product.

▲ IP68GT available. Please replace "S" at the end with "GT" (for example, BVNZ-P112GT/P1).
 (Functional description PMAFIX IP68GT, pages E28–E29).

Fittings for Nylon Flexible Conduits VA 45° Elbow, PG, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread PG	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
VAD-P090GT	VAV-P090	9	10	12	11.0	43.0 x 37.0
VAD-P112GT	VAV-P112	11	12	16		48.0 x 40.0
VAD-P132GT	VAV-P132	13.5	17	20		48.0 x 41.5
VAD-P137GT	VAV-P137					55.5 x 51.5
VAD-P167GT	VAV-P167	16	21	25	12.0	55.5 x 51.5
VAD-P213GT	VAV-P213	21	23	25		63.0 x 58.0
VAD-P299GT	VAV-P299	29	29	32	13.0	69.0 x 66.0
VAD-P366GT	VAV-P366	36	36	40		86.0 x 86.0
VAD-P488GT	VAV-P488	48	48	50		94.0 x 100.0

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VB 90° Curved Elbow, PG, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX conduits
- High conduit pullout strength
- Smooth elbow allows easy guidance through connector
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread PG	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
VBD-P167GT	VBV-P167	16	17	20	11.0	47.5 x 73.0
VBD-P213GT	VBV-P213	21	23	25	12.0	57.5 x 85.0
VBD-P299GT	VBV-P299	29	29	32		67.5 x 96.0
VBD-P366GT	VBV-P366	36	36	40	13.0	79.0 x 123.0
VBD-P488GT	VBV-P488	48	48	50		92.5 x 135.0

_ = Insert "B" to order black or "S" to order grey.

Appropriate standard elbows of type VW are available for smaller conduit sizes NW 07 to NW 12.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits

VW 90° Elbow, PG, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread PG	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
VWD-P07MGT-11	VWV-P07M	7	7	10	11.0	32.0 x 35.0
VWD-P07MGT-8	—				8.0	29.0 x 35.0
VWD-P070GT-11	VWV-P070				11.0	34.0 x 39.5
VWD-P070GT-8	—				8.0	31.0 x 39.5
VWD-P072GT-11	VWV-P072				11.0	38.5 x 44.5
VWD-P072GT-8	—				8.0	35.5 x 44.5
VWD-P09MGT-11	VWV-P09M	9	7	10	11.0	32.0 x 36.5
VWD-P09MGT-8	—				8.0	29.0 x 36.5
VWD-P090GT-11	VWV-P090				11.0	34.0 x 39.5
VWD-P090GT-8	—				8.0	31.0 x 39.5
VWD-P092GT-11	VWV-P092				11.0	38.5 x 44.5
VWD-P092GT-8	—				8.0	35.5 x 44.5
VWD-P11MGT-11	VWV-P11M	11	7	10	11.0	32.0 x 38.0
VWD-P11MGT-8	—				8.0	29.0 x 38.0
VWD-P110GT-11	VWV-P110				11.0	34.0 x 41.0
VWD-P110GT-8	—				8.0	31.0 x 41.0
VWD-P112GT-11	VWV-P112				11.0	38.5 x 46.0
VWD-P112GT-8	—				8.0	35.5 x 46.0
VWD-P13MGT-11	VWV-P13M	13.5	7	10	11.0	32.0 x 39.5
VWD-P13MGT-8	—				8.0	29.0 x 39.5
VWD-P130GT-11	VWV-P130				11.0	34.0 x 42.5
VWD-P130GT-8	—				8.0	31.0 x 42.5
VWD-P132GT-11	VWV-P132				11.0	38.5 x 47.5
VWD-P132GT-8	—				8.0	35.5 x 47.5
VWD-P137GT-11	VWV-P137	16	17	20	11.0	43.5 x 58.5
VWD-P137GT-8	—				8.0	40.5 x 58.5
VWD-P167GT-11	VWV-P167				11.0	43.5 x 58.5
VWD-P167GT-8	—				8.0	40.5 x 58.5
VWD-P213GT	VWV-P213				12.0	54.0 x 67.0
VWD-P299GT	VWV-P299				12.0	61.5 x 74.5
VWD-P366GT	VWV-P366	13.0	72.0 x 98.0			
VWD-P488GT	VWV-P488	13.0	85.5 x 111.0			

_ = Insert "B" to order black or "S" to order grey.

Curved elbows of type VB are available for the sizes NW 17 to NW 48.

▲ IP68GT available. Please add "GT" after the catalogue no.

(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits VN Straight, PG, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- Body made of high-grade, specially formulated polyamide
- Threads made of nickel-plated brass
- Self extinguishing
- Free from halogens and cadmium
- Excellent impact strength
- Extremely high thread and system pullout resistance
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black ▲	Cat. No. IP68, Grey ▲	Thread PG	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
NVNV-P090	MVNV-P090	9	10	12	12.0	42.0
NVNV-P112	MVNV-P112	11	12	16		45.0
NVNV-P137	MVNV-P137	13.5	17	20	13.0	54.0
NVNV-P167	MVNV-P167	16				
NVNV-P213	MVNV-P213	21	23	25	14.0	57.0
NVNV-P293	MVNV-P293	29				
NVNV-P299	MVNV-P299	29	29	32	17.0	58.5
NVNV-P366	MVNV-P366	36	36	40		75.5
NVNV-P488	MVNV-P488	48	48	50		

▲ IP68GT available. Please add "GT" after the order no. (Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VNZ Straight, PG, Strain Relief, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- Separate damp and dry areas
- Body made of high-grade, specially formulated polyamide 6
- Threads made of nickel-plated brass
- Sealing bushings made of TPE-V
- Integrated strain relief and optimal ingress protection at the cable (up to IP68/10 bar)
- High thread and system pullout resistance
- Vibration-resistant connection to PMAFLEX[®] conduits
- Very good chemical properties
- Polyamide free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68 Complete, Black ▲	Cat. No. IP68 Fitting ▲	Cat. No. Insert	Thread PG	Conduit Size		Terminal Range (mm)	Thread Length (mm)	Overall Length (mm)
				NW	Metric			
NVNZ-P090S/P3	NVNZ-P090R/P	DE-P090/P3	9	10	12	6.5-9.5	6.0	49.5
NVNZ-P110S/P1	NVNZ-P110R/P	DE-P110/P1				4.0-6.5		52.0
NVNZ-P110S/P3		DE-P110/P3				6.5-9.5		52.0
NVNZ-P112S/P1	NVNZ-P112R/P	DE-P112/P1	11	12	16	4.0-6.5	6.5	53.5
NVNZ-P112S/P3		DE-P112/P3				6.5-9.5		
NVNZ-P112S/P4		DE-P112/P4				7.0-10.5		
NVNZ-P160S/P1	NVNZ-P160R/P1	DE-P110/P1	16	17	20	4.5-6.5	6.5	52.5
NVNZ-P167S/P3	NVNZ-P167R/P	DE-P167/P3				6.5-9.5		
NVNZ-P167S/P4		DE-P167/P4				7.0-10.5		
NVNZ-P167S/P5		DE-P167/P5	16	17	20	9.0-13.0	6.5	61.0
NVNZ-P167S/P6		DE-P167/P6				11.5-15.5		
NVNZ-P213S/P4	NVNZ-P213R/P	DE-P213/P4				21		23
NVNZ-P213S/P5	NVNZ-P213R1/P	DE-P213/P5	17.0-20.5					
NVNZ-P299S/P3	NVNZ-P299R/P	DE-P299/P3	29	29	32		17.0-20.5	
NVNZ-P299S/P4		DE-P299/P4				20.0-25.0		
NVNZ-P299S/P5		DE-P299/P5				24.0-28.0		
NVNZ-P366S/P1	NVNZ-P366R/P	DE-P366/P1	36	36	40	27.0-32.0	9.0	88.0
NVNZ-P366S/P2		DE-P366/P2				29.0-34.0		
NVNZ-P366S/P3		DE-P366/P3				32.0-36.0		
NVNZ-P488S/P1	NVNZ-P488R/P	DE-P488/P1	48	48	50	35.0-40.0	10.0	90.5
NVNZ-P488S/P2	NVNZ-P488R/P	DE-P488/P2				39.0-44.0		

* = without insert

Note: MDE multi-hole bushings are available for this product.

▲ IP68GT available. Please replace "S" or "R" with "GT" (for example NVNZ-P112GT/P1) (Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C
Short term: Max. 135 °C

Content of delivery:

- IP68GT Complete Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT), sealing bushing and O-ring (OR)
 - Fitting* Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and O-ring (OR)
 - IP68 Complete Fitting with oval clips (OVN2), sealing bushing, conduit seal (NVN3) and O-ring (OR)
 - Fitting* Fitting with oval clips (OVN2), conduit seal (NVN3) and O-ring (OR)
 - Bushing Sealing bushing
- For several conductors, multi-hole bushings are available (MDE)

Fittings for Nylon Flexible Conduits

VA 45° Elbow, PG, Metal/Polyamide

- For cable protection systems in a wide range of applications
- Body made of high-grade, specially formulated polyamide
- Threads made of nickel-plated brass
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Polyamide free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Cat. No. IP68, Black ▲	Cat. No. IP68, Grey ▲	Thread PG	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
NVAV-P090	MVAV-P090	9	10	12	12.0	50.5 x 37.0
NVAV-P112	MVAV-P112	11	12	16	13.0	55.0 x 40.5
NVAV-P137	MVAV-P137	13.5	17	20		63.5 x 50.0
NVAV-P167	MVAV-P167	16	17	20		63.5 x 50.0
NVAV-P213	MVAV-P213	21	23	25	14.0	73.0 x 60.5
NVAV-P299	MVAV-P299	29	29	32	17.0	78.0 x 68.0
NVAV-P366	MVAV-P366	36	36	40		98.0 x 87.5
NVAV-P488	MVAV-P488	48	48	50		105.0 x 101.0

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VB 90° Curved Elbow, PG, Metal/Polyamide

- For cable protection systems in a wide range of applications
- Body made of high-grade, specially formulated polyamide
- Threads made of nickel-plated brass
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- Very good chemical properties
- Polyamide free from halogens and cadmium
- Extremely high thread and system pullout resistance
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black ▲	Cat. No. IP68, Grey ▲	Thread PG	Fits to Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
NVBV-P167	MVBV-P167	16	17	20	13.0	54.0 x 73.0
NVBV-P213	MVBV-P213	21	23	25	14.0	65.5 x 85.0
NVBV-P299	MVBV-P299	29	29	32		75.0 x 96.0
NVBV-P366	MVBV-P366	36	36	40		90.5 x 123.0
NVBV-P488	MVBV-P488	48	48	50	17.0	103.5 x 135.0

Appropriate standard elbows of type VW are available for smaller conduit sizes NW 07 to NW 12.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits VW 90° Elbow, PG, Metal/Polyamide

- Use in railway vehicle and heavy machine construction
- Body made of high-grade, specially formulated polyamide
- Threads made of nickel-plated brass
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Very good chemical properties
- Polyamide free from halogens and cadmium
- Extremely high thread and system pullout resistance
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black ▲	Cat. No. IP68, Grey ▲	Thread PG	Fits to Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
NVWV-P090	MVWV-P090	9	10	12	12.0	39.5 x 39.5
NVWV-P112	MVWV-P112	11	12	16		45.5 x 45.0
NVWV-P137	MVWV-P137	13.5	17	20	13.0	50.0 x 58.5
NVWV-P167	MVWV-P167	16	17	20		50.0 x 58.5
NVWV-P213	MVWV-P213	21	23	25	14.0	62.0 x 67.0
NVWV-P299	MVWV-P299	29	29	32		69.0 x 74.5
NVWV-P366	MVWV-P366	36	36	40	17.0	83.5 x 98.0
NVWV-P488	MVWV-P488	48	48	50		96.5 x 111.0

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Curved elbows of type VB are available for the sizes NW 17 to NW 48.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Fittings for Nylon Flexible Conduits

VN Straight, Whitworth, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66 ▲	Cat. No. IP68 ▲	Thread Whitworth (in.)	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
_VND-G00MGT	VNV-G00M	1/4	7	10	11.0	34.5
_VND-G000GT	VNV-G000		10	12		36.5
_VND-G010GT	VNV-G010		10	12		36.5
_VND-G012GT	VNV-G012	3/8	12	16	13.0	39.0
_VND-G022GT	VNV-G022		12	16		41.0
_VND-G027GT	VNV-G027	1/2	17	20	14.0	49.5
_VND-G043GT	VNV-G043		23	25		54.0
_VND-G069GT	VNV-G069	1	29	32	15.0	56.0
_VND-G076GT	VNV-G076		36	40		71.0
_VND-G088GT	VNV-G088	1-1/2	48	50	18.0	71.5
_VND-G098GT	VNV-G098	2	48	50		71.5

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VA 45° Elbow, Whitworth, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread Whitworth (in.)	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
_VAD-G000GT	VAV-G000	1/4	10	12	11.0	43.5 x 37.0
_VAD-G012GT	VAV-G012		12	16		48.0 x 40.0
_VAD-G027GT	VAV-G027		17	20		57.5 x 51.5
_VAD-G043GT	VAV-G043	3/8	23	25	14.0	67.0 x 60.0
_VAD-G069GT	VAV-G069		29	32		73.5 x 67.0
_VAD-G076GT	VAV-G076	1/2	36	40	15.0	91.5 x 85.5
_VAD-G088GT	—		48	50		99.0 x 96.0
_VAD-G098GT	VAV-G098	1	48	50	18.0	99.0 x 101.0

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits VW 90° Elbow, Whitworth, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread Whitworth (in.)	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
_VWD-G00MGT	_VWV-G00M	1/4	7	10	11.0	32.0 x 36.5
_VWD-G000GT	_VWV-G000		10	12		34.0 x 39.5
_VWD-G010GT	_VWV-G010	3/8	12	16		34.0 x 40.5
_VWD-G012GT	_VWV-G012				38.5 x 46.0	
_VWD-G022GT	_VWV-G022	1/2	17	20	13.0	40.5 x 47.5
_VWD-G027GT	_VWV-G027					45.5 x 58.5
_VWD-G043GT	_VWV-G043	3/4	23	25		14.0
_VWD-G069GT	_VWV-G069	1	29	32	64.5 x 73.5	
_VWD-G076GT	_VWV-G076	1-1/4	36	40	77.0 x 96.0	
_VWD-G088GT	_VWV-G088	1-1/2	48	50	18.0	90.5 x 106.0
_VWD-G098GT	_VWV-G098					2

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Fittings for Nylon Flexible Conduits

VN Straight, NPT, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread NPT (in.)	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
_VND-N022GT	_VNV-N022	1/2	12	16	13.0	41.5
_VND-N027GT	_VNV-N027		17	20		49.5
_VND-N043GT	_VNV-N043	3/4	23	25	14.0	54.0
_VND-N069GT	_VNV-N069	1	29	32	15.0	56.0
_VND-N076GT	_VNV-N076	1-1/4	36	40	18.0	71.0
_VND-N088GT	_VNV-N088	1-1/2	48	50		71.5
_VND-N098GT	_VNV-N098	2	48	50		71.5

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no. (Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VA 45° Elbow, NPT, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread NPT (in.)	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
_VAD-N022GT	_VAV-N022	1/2	12	16	13.0	50.0 x 41.5
_VAD-N027GT	_VAV-N027		17	20		57.5 x 51.5
_VAD-N043GT	_VAV-N043	3/4	23	25	14.0	67.0 x 60.0
_VAD-N069GT	_VAV-N069	1	29	32	15.0	73.5 x 67.0
_VAD-N076GT	_VAV-N076	1-1/4	36	40	18.0	91.5 x 85.5
_VAD-N088GT	_VAV-N088	1-1/2	48	50		99.0 x 96.0
_VAD-N098GT	_VAV-N098	2	48	50		99.0 x 101.0

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no. (Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

Fittings for Nylon Flexible Conduits VW 90° Elbow, NPT, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- Easy mounting: simple conduit push-in installation
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Thread NPT (in.)	Conduit Size		Thread Length (mm)	External Dimensions (mm)
			NW	Metric		
_VWD-N022GT	_VWV-N022	1/2	12	16	13.0	40.5 x 47.5
_VWD-N027GT	_VWV-N027		17	20		45.5 x 58.5
_VWD-N043GT	_VWV-N043	3/4	23	25	14.0	56.0 x 66.5
_VWD-N069GT	_VWV-N069	1	29	32	15.0	64.5 x 73.5
_VWD-N076GT	_VWV-N076	1-1/4	36	40	18.0	77.0 x 96.0
_VWD-N088GT	_VWV-N088	1-1/2	48	50		90.5 x 106.0
_VWD-N098GT	_VWV-N098	2	48	50		90.5 x 111.0

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and thread gasket (SNV4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and thread gasket (SNV4)

VO Flange 90°, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Standard flange seal FGO4 made from EPDM
- Flange seal FGO4/01 made from NBR on demand
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Conduit Size		Dimensions (mm) Width x Length x Depth	Screw Sizes
		NW	Metric		
_VOD-P167GT	_VOV-P167	17	20	46.0 x 66.0 x 35.5	2 x M5
_VOD-P213GT	_VOV-P213	23	25	65.5 x 70.0 x 43.0	2 x M6
_VOD-P299GT	_VOV-P299	29	32	67.0 x 78.0 x 49.5	4 x M6
_VOD-P366GT	_VOV-P366	36	40	85.0 x 102.0 x 65.5	4 x M6
_VOD-P488GT	_VOV-P488	48	50	86.0 x 119.0 x 77.5	4 x M6

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2) and flange gasket (FGO4)
- IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and flange gasket (FGO4)
- IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and flange gasket (FGO4)

Fittings for Nylon Flexible Conduits

VI Female Thread Adapter, Metric, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black	Cat. No. IP68, Black ▲	Thread Metric	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
BVID-M12MGT	—	M12x1.5	7	10	8.0	32.0
BVID-M160GT	BVIR-M160	M16x1.5	10	12		33.5
BVID-M162GT	BVIR-M162	M16x1.5	12	16		36.5
—	BVIR-M202	M20x1.5	12	16		36.5
BVID-M207GT	BVIR-M207	M20x1.5	17	20		44.5
BVID-M253GT	BVIR-M253	M25x1.5	23	25		48.5
—	BVIR-M257	M25x1.5	17	20	44.5	
BVID-M329GT	BVIR-M329	M32x1.5	29	32	10.0	51.5
BVID-M406GT	BVIR-M406	M40x1.5	36	40		65.5
BVID-M508GT	BVIR-M508	M50x1.5	48	50		65.5
BVID-M638GT	BVIR-M638	M63x1.5	48	50		65.5

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

- VIR: IP68 static/IP67 dynamic, conduit side
- VID: IP66 static/IP54 dynamic, conduit side

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP66 Fitting with pre-installed universal safety clips (AFN2)
- IP68GT Fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)
- IP68 Fitting with oval clips (OVN2) and conduit seal (NVN3)

VI Female Thread Adapter, Metric, Metal/Polyamide

- Use in machine railway construction and heavy-duty applications
- Body made of high-grade, specially formulated polyamide 6
- Threads made of nickel-plated brass
- Very high impact resistance
- High thread and system pullout resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black ▲	Thread Metric	Conduit Size		Thread Length (mm)	Overall Length (mm)
		NW	Metric		
NVIR-M120	M12x1.5	10	12	7.0	35.5
NVIR-M162	M16x1.5	12	16	9.0	40.5
NVIR-M207	M20x1.5	17	20	10.5	50.5
NVIR-M253	M25x1.5	23	25	10.5	53.0
NVIR-M329	M32x1.5	29	32	11.0	55.0
NVIR-M406	M40x1.5	36	40	13.5	71.0
NVIR-M508	M50x1.5	48	50	15.0	73.0
NVIR-M638	M63x1.5	48	50	17.5	78.0

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

- VIR: IP68 static/IP67 dynamic, conduit side

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)
- IP68 Fitting with oval clips (OVN2) and conduit seal (NVN3)

Fittings for Nylon Flexible Conduits FI/VI Female Thread Adapter, PG, Polyamide

- For machine, automobile and rail vehicle building
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP67, Black	Cat. No. IP68, Black	Thread PG	Fits to Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
BFIL-P07M	—	7	7	10	8.0	29.0
BFIL-P070	—					34.5
—	BVIR-P070	10	10	12		33.5
BFIL-P090	—					32.5
—	BVIR-P090	9	9	12		33.5
BFIL-P112	—					32.5
—	BVIR-P112	11	12	16		36.5
BFIL-P117	—					17
BFIL-P132	—	13.5	12	16		32.5
BFIL-P137	—		17	20		33.5
BFIL-P160	—		10	12	7.0	37.0
BFIL-P167	—	16	17	20	8.0	33.5
—	BVIR-P167				8.0	44.5
BFIL-P217	—	21	21	25	10.5	35.5
BFIL-P213	—				8.0	39.0
BFIL-P293	—	29	29	32	9.0	42.0
BFIL-P299	—				9.0	43.0
BFIL-P363	—	36	23	25	12.0	51.0
BFIL-P369	—		29	32	16.0	52.0
BFIL-P366	—		36	25	13.0	64.0
BFIL-P488	—	48	48	50	13.0	65.0

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

VIR: IP68 static/IP67 dynamic, conduit side
FIL: IP67 static/IP65 dynamic, conduit side
Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP67 Fitting with oval clips (OVN2) and conduit seal (NFN3)
- IP68GT Fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)
- IP68 Fitting with oval clips (OVN2) and conduit seal (NVN3)

VI Female Thread Adapter PG, Metal/Polyamide

- For machine, vehicle and traction building
- Body made of high-grade, specially formulated polyamide 6
- Threads made of nickel-plated brass
- Very high impact resistance
- High thread and system connection strengths
- Vibration-proof connection to PMAFLEX® conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP68, Black ▲	Thread PG	Conduit Size		Thread Length (mm)	Overall Length (mm)
		NW	Metric		
NVIZR-P07M	7	7	10	6.0	33.0
NVIZR-P090	9	10	12	9.0	37.5
NVIZR-P110	11	10	12	9.0	39.5
NVIZR-P112	11	12	16	9.0	41.5
NVIZR-P167	16	17	20	9.5	49.5
NVIZR-P213	21	23	25	10.0	56.5
NVIZR-P299	29	29	32	12.5	56.5
NVIZR-P366	36	36	40	13.0	73.0
NVIZR-P488	48	48	50	14.0	75.0

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

VUZR: IP68 static/IP67 dynamic, conduit side
Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

- IP68GT Fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)
- IP68 Fitting with oval clips (OVN2) and conduit seal (NVN3)

Fittings for Nylon Flexible Conduits

VI Female Thread Adapter, UNEF for AMP CPC Series, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Suitable for the AMP connector Series CPC
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black	Cat. No. IP68, Black ▲	Thread UNEF	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
BVIDA-U15MGT	BVIRA-U15M	5/8 in.-24	7	10	8.0	31.5
BVIDA-U150GT	BVIRA-U150	5/8 in.-24	10	12		33.5
BVIDA-U152GT	BVIRA-U152	5/8 in.-24	12	16		36.5
BVIDA-U180GT	BVIRA-U180	1/4 in.-20	10	12		33.5
BVIDA-U182GT	BVIRA-U182	1/4 in.-20	12	16		36.5
BVIDA-U187GT	BVIRA-U187	1/4 in.-20	17	20		44.5
BVIDA-U232GT	BVIRA-U232	15/16 in.-20	12	16		38.5
BVIDA-U237GT	BVIRA-U237	15/16 in.-20	17	20		46.5
BVIDA-U233GT	BVIRA-U233	15/16 in.-20	23	25		48.5
BVIDA-U347GT	BVIRA-U347	13/8 in.-18	17	20		46.5
BVIDA-U343GT	BVIRA-U343	13/8 in.-18	23	25	48.5	
BVIDA-U402GT	BVIRA-U402	15/8 in.-18	12	16	7.0	55.5
BVIDA-U407GT	BVIRA-U407	15/8 in.-18	17	20		61.5
BVIDA-U403GT	BVIRA-U403	15/8 in.-18	23	25		60.5

▲ IP68GT available. Please add "GT" after the catalogue no. (Functional description PMAFIX IP68GT, pages E28–E29).

VIRA: IP68 static/IP67 dynamic, conduit side

VIDA: IP66 static/IP54 dynamic, conduit side

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

IP66 Fitting with pre-installed universal safety clips (AFN2)

IP68GT Fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)

IP68 Fitting with oval clips (OVN2) and conduit seal (NVN3)

VI Female Thread Adapter, UNEF for Souriau

UTG-6/ITT Cannon Trident, Polyamide

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Suitable for the Souriau connector Series UTG-6 - ITT Cannon Trident
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black	Cat. No. IP68, Black ▲	Thread UNEF	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
BVIDB-U162GT	BVIRB-U162	11/16 in.-24	12	16	4.0	43.5
BVIDB-U202GT	BVIRB-U202	13/16 in.-20	12	16	4.5	44.0
BVIDB-U232GT	BVIRB-U232	15/16 in.-20	12	16	4.5	49.0
BVIDB-U237GT	BVIRB-U237	15/16 in.-20	17	20	4.5	52.0
BVIDB-U267GT	BVIRB-U267	11/16 in.-18	17	20	4.5	52.0
BVIDB-U297GT	BVIRB-U297	13/16 in.-18	17	20	6.5	55.5
BVIDB-U293GT	BVIRB-U293	13/16 in.-18	23	25	6.5	52.0
BVIDB-U323GT	BVIRB-U323	15/16 in.-18	23	25	6.5	52.0
BVIDB-U357GT	BVIRB-U357	17/16 in.-18	17	20	6.5	58.5
BVIDB-U353GT	BVIRB-U353	17/16 in.-18	23	25	6.5	54.0
BVIDB-U359GT	BVIRB-U359	17/16 in.-18	29	32	6.5	50.5

▲ IP68GT available. Please add "GT" after the catalogue no. (Functional description PMAFIX IP68GT, pages E28–E29).

VIRB: IP68 static/IP67 dynamic, conduit side

VIDB: IP66 static/IP54 dynamic, conduit side

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

IP66 Fitting with pre-installed universal safety clips (AFN2)

IP68GT Fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)

IP68 Fitting with oval clips (OVN2) and conduit seal (NVN3)

Fittings for Nylon Flexible Conduits VI Female Thread Adapter, UNEF for MIL C 5015

- Use in machine, vehicle and traction building industries
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66, Black	Cat. No. IP68, Black ▲	Thread UNEF	Conduit Size		Thread Length (mm)	Overall Length (mm)
			NW	Metric		
—	BVIVG-U152	5/ in.-24	12	16	8.0	36.5
—	BVIVG-U187	3/4 in.-20	17	20		46.5
—	BVIVG-U210	7/8 in.-20	10	07		37.0
BVIDG-U212GT	BVIVG-U212	7/8 in.-20	12	16	9.0	38.5
BVIDG-U217GT	BVIVG-U217	7/8 in.-20	17	20		46.5
BVIDG-U242GT	BVIVG-U242	1 in.-20	12	16		40.5
—	BVIVG-U243	1 in.-20	23	25		55.0
BVIDG-U247GT	BVIVG-U247	1 in.-20	17	20		47.5
—	BVIVG-U292	1-3/16 in.-18	12	16		40.5
BVIDG-U293GT	BVIVG-U293	1-3/16 in.-18	23	25		55.0
BVIDG-U297GT	BVIVG-U297	1-3/16 in.-18	17	20		47.5
—	BVIVG-U299	1-3/16 in.-18	29	29		47.0
—	BVIVG-U352	1-7/16 in.-18	12	16		39.0
BVIDG-U353GT	BVIVG-U353	1-7/16 in.-18	23	25		52.0
—	BVIVG-U356	1-7/16 in.-18	36	40		63.0
BVIDG-U357GT	BVIVG-U357	1-7/16 in.-18	17	20	46.5	
BVIDG-U359GT	BVIVG-U359	1-7/16 in.-18	29	29	52.0	
BVIDG-U433GT	BVIVG-U433	1-3/4-18 UNS	23	25	10.0	52.0
BVIDG-U436GT	BVIVG-U436	1-3/4-18 UNS	36	40		62.5
—	BVIVG-U437	1-3/4-18 UNS	17	20		46.5
BVIDG-U439GT	BVIVG-U439	1-3/4-18 UNS	29	32		51.5
—	BVIVG-U503	2 in.-18 UNS	23	25		51.5
—	BVIVG-U503/01	2 in.-18 UNS	23	25		62.5
BVIDG-U506GT	BVIVG-U506	2 in.-18 UNS	36	40		62.5
—	BVIVG-U508	2 in.-18 UNS	48	50		64.5
BVIDG-U509GT	BVIVG-U509	2 in.-18 UNS	29	32		55.0
—	BVIVG-U563	2-1/4 in.-16 UN	23	25		51.0
BVIDG-U566GT	BVIVG-U566	2-1/4 in.-16 UN	36	40		62.0
—	BVIVG-U568	2-1/4 in.-16 UN	48	50		64.0
BVIDG-U569GT	BVIVG-U569	2-1/4 in.-16 UN	29	32	51.0	
—	BVIVG-U628	2-1/4 in.-16 UN	48	500	64.0	

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28-E29).

VI: IP68 static/IP67 dynamic, conduit- and thread side

VIDG: IP66 static/IP54 dynamic, conduit- and thread side

Temperature range: -40 to 105 °C
Short term: Max. 160 °C

Content of delivery:

IP66 Fitting with pre-installed universal safety clips (AFN2) and O-ring (OR)

IP68GT Fitting with pre-installed universal safety clips (AFN2), conduit seal (NVN3-GT) and O-ring (OR)

IP68 Fitting with oval clips (OVN2), conduit seal (NVN3) and O-ring (OR)

FI Female Thread Adapter, Fine-Metric, Transparent

- Use in machine and vehicle building, in connection with electronic sensors
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Light-emitting diodes are recognizable through the connector
- Vibration-proof connection to PMAFLEX[®] conduits
- High conduit pullout strength
- Very good chemical properties, free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP67, Transparent	Thread Fine-Metric	Conduit Size		Thread Length (mm)	Overall Length (mm)
		NW	Metric		
TFIL-F08M	8	7	10	6.5	29.5
TFIL-F12M	12				56.0
TFIL-F18M	18				56.5
TFIL-F30M	30	10	12	6.0	57.0
TFIL-F120	12				
TFIL-F180	18				
TFIL-F300	30				

FIL: IP67 static / IP65 dynamic, conduit side

Temperature range: -40 to 105 °C
Short term: Max. 120 °C

Content of delivery:

Fitting with oval clips (OVN2) and conduit seal (NFN3)

Fittings for Nylon Flexible Conduits

VY Y Pieces

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP68 ▲	Input Fits to Conduit Size		Outputs Fit to Conduit Size	
		NW	Metric	NW	Metric
_VYD-10070GT	_VYR-100707	10	12	7	10
_VYD-121010GT	_VYR-121010	12	16	10	12
_VYD-171212GT	_VYR-171212	17	20	12	16
_VYD-231717GT	_VYR-231717	23	25	17	20
_VYD-292323GT	_VYR-292323	29	32	23	25
_VYD-362929GT	_VYR-362929	36	40	29	32
_VYD-483636GT	_VYR-483636	48	50	36	40

_ = Insert "B" to order black or "S" to order grey.

The input/output sizes can be adapted with the AVD/AVR conduit adapters.

▲ IP68GT available. Please add "GT" after the catalogue no.

(Functional description PMAFIX IP68GT, pages E28-E29).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Distributor fitting with pre-installed universal safety clips (AFN2)
- IP68GT Distributor fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)
- IP68 Distributor fitting with oval clips (OVN2) and conduit seal (NVN3)

FV V Pieces

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP67	Input Fits to Conduit Size		Outputs Fit to Conduit Size	
		NW	Metric	NW	Metric
_FVD-10070GT	_FVL-100707	10	12	7	10
_FVD-101010GT	_FVL-101010	10	12	10	12
_FVD-121010GT	_FVL-121010	12	16	10	12
_FVD-171010GT	_FVL-171010	17	20	10	12
_FVD-171212GT	_FVL-171212	17	20	12	16
_FVD-231717GT	_FVL-231717	23	25	17	20

_ = Insert "B" to order black or "S" to order grey.

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Distributor fitting with pre-installed universal safety clips (AFN2)
- IP67 Distributor fitting with oval clips (OVN2) and conduit seal (NFN3)

Fittings for Nylon Flexible Conduits

FT/VT T Pieces

- For cable protection systems in a wide range of applications
- High-grade, specially formulated polyamide 6
- Very high impact resistance
- Vibration-proof connection to PMAFLEX® conduits
- High conduit pullout strength
- Very good chemical properties
- Free from halogens and cadmium
- Fits fine (T) and coarse (G) conduit profiles



Cat. No. IP66	Cat. No. IP67 ▲	Input Fits to Conduit Size		Outputs Fit to Conduit Size	
		NW	Metric	NW	Metric
_FTD-101010GT	—	10	12	10	12
_FTD-121212GT	—	12	16	12	16
_FTD-171717GT	—	17	20	17	20
_FTD-292323GT	_FTL-292323 (!)	29	32	23	25
_FTD-292929GT	—	29	32	29	32
—	_VTR-101010	10	12	10	12
—	_VTR-121212	12	16	12	16
—	_VTR-171717	17	20	17	20
_VDD-232323GT	_VTR-232323	23	25	23	25
—	_VTR-292929	29	32	29	32
_VTD-363636GT	_VTR-363636	36	40	36	40
_VTD-484848GT	_VTR-484848	48	50	48	50

_ = Insert "B" to order black or "S" to order grey.

▲ IP68GT available. Please add "GT" after the catalogue no.
(Functional description PMAFIX IP68GT, pages E28–E29).

(!) Please note: The article "FTL" (IP67) will be discontinued! For new applications we recommend _VTR (IP68).

Temperature range: -40 to 105 °C

Short term: Max. 160 °C

Content of delivery:

- IP66 Distributor fitting with pre-installed universal safety clips (AFN2)
- IP67 Distributor fitting with oval clips (OVN2) and conduit seal (NFN3)
- IP68GT Distributor fitting with pre-installed universal safety clips (AFN2) and conduit seal (NVN3-GT)
- IP68 Distributor fitting with oval clips (OVN2) and conduit seal (NVN3)