

PMA

CABLE PROTECTION



May 2010

PMA North American Selection Guide

From a range of over 6,500 products, cataloged are
the most frequently specified

PMA FLEXPLus
UL Listed
Conduit Types



UL Listed	Products			PUSG PA12	VUSG PA6	CUSG PA6
	For Conduit Size			Very flexible, heavy-wall black	Flexible, heavy-duty black	Very flexible, medium-wall black
	Metric	Inches	NW			
	20	½"	17	PUSG-17B	VUSG-17B	CUSG-17B
	25	¾"	23	PUSG-23B	VUSG-23B	CUSG-23B
	32	1"	29	PUSG-29B	VUSG-29B	CUSG-29B
	40	1¼"	36	PUSG-36B	VUSG-36B	CUSG-36B
	50	1½"	48	PUSG-48B	VUSG-48B	CUSG-48B

PMAFLEX
Standard
Conduit Types



UL Recognized	Products			PCS PA12	
	For Conduit Size			Highly flexible, heavy conduits	
	Metric	Inches	NW		
	12	-	10	PCST-10B	-
	16	¾"	12	PCST-12B	-
	20	½"	17	PCST-17B	PCSG-17B
	25	¾"	23	-	PCSG-23B
	32	1"	29	-	PCSG-29B
	40	1¼"	36	-	PCSG-36B
	50	1½"	48	-	PCSG-48B



PMA FIXPLus
UL Listed
Connectors



UL Listed / metric	Products			UN	UA	UW
	For Conduit Size			Straight, black IP68, NEMA 6P	45° Elbow, black IP68, NEMA 6P	90° Elbow, black IP68, NEMA 6P
	Metric	Inches	NW	Thread type		
	20	½"	17	M20x1.5	BUNV-M207-UL	BUAV-M207-UL
	20	½"	17	M25x1.5	BUNV-M257-UL	-
	25	¾"	23	M25x1.5	BUNV-M253-UL	BUAV-M253-UL
	25	¾"	23	M32x1.5	BUNV-M323-UL	-
	32	1"	29	M32x1.5	BUNV-M329-UL	BUAV-M329-UL
	32	1"	29	M40x1.5	BUNV-M409-UL	-
	40	1¼"	36	M40x1.5	BUNV-M406-UL	BUAV-M406-UL
	40	1¼"	36	M50x1.5	BUNV-M506-UL	-
	50	1½"	48	M50x1.5	BUNV-M508-UL	BUAV-M508-UL
	50	1½"	48	M63x1.5	BUNV-M638-UL	-

UL Listed / NPT	Products			UN	UA	UW
	For Conduit Size			Straight, black IP68, NEMA 6P	45° Elbow, black IP68, NEMA 6P	90° Elbow, black IP68, NEMA 6P
	Metric	Inches	NW	Thread type		
	20	½"	17	NPT ½"	BUNV-N027-UL	BUAV-N027-UL
	25	¾"	23	NPT ¾"	BUNV-N043-UL	BUAV-N043-UL
	36	1"	29	NPT 1"	BUNV-N069-UL	BUAV-N069-UL
	40	1¼"	36	NPT 1¼"	BUNV-N076-UL	BUAV-N076-UL
	50	1½"	48	NPT 1½"	BUNV-N088-UL	BUAV-N088-UL
	50	1½"	48	NPT 2"	BUNV-N098-UL	BUAV-N098-UL

All part numbers quoted here are for black components.

Please ask for availability in gray.

PMA has been designing, manufacturing and distributing cable protection products of the highest quality since 1975. Very quickly PMA gained an excellent reputation world wide and following the tradition of Swiss quality established itself as market leader.

The portfolio of components which now includes over 6,500 products has proven itself world wide in rail industry technology, machine and ship building applications. PMA has also become the preferred supplier for many robotic, building installation and several other application areas where power or data cables must be reliably protected.



PMA headquarters are at Uster, on the outskirts of Zürich, in Switzerland. The great majority of the products for the world market are manufactured at this site and it is also the home to PMA's intensive research and development activities.

PMA is represented by sales subsidiaries in the USA, Great Britain, Germany, Italy, France, Austria and Spain. Partner companies in all of the important industrial nations and an extensive distribution network throughout the globe, ensure optimal service and short delivery times can be guaranteed in over 45 countries. Worldwide PMA employs in total around 170 people.

PMAFIX
Connectors



UL Recognized	Products			VN	
	For Conduit Size			Straight	
	Metric	Inches	NW	Thread type	IP68, NEMA 6P
METRIC	12	-	10	M12x1.5	BVND-M120GT
	16	¾"	12	M16x1.5	BVND-M160GT
	20	½"	17	M20x1.5	BVND-M207GT
	25	¾"	23	M25x1.5	BVND-M253GT
	32	1"	29	M32x1.5	BVND-M323GT
	40	1¼"	36	M40x1.5	BVND-M406GT
	50	1½"	48	M50x1.5	BVND-M508GT
	16	¾"	12	M20x1.5	BVND-M202GT
	20	½"	17	M25x1.5	BVND-M257GT
	25	¾"	23	M32x1.5	BVND-M323GT
NPT	32	1"	29	M32x1.5	BVND-M329GT
	40	1¼"	36	M40x1.5	BVND-M409GT
	50	1½"	48	M50x1.5	BVND-M508GT
	16	¾"	12	NPT ½"	BVND-N022GT
	20	½"	17	NPT ½"	BVND-N027GT
	25	¾"	23	NPT ¾"	BVND-N043GT
	32	1"	29	NPT 1"	BVND-N069GT
	40	1¼"	36	NPT 1¼"	BVND-N076GT

PMAFIX Pro
Connectors
with metal
threads



UL Recognized	Products			KNH metal	
	For Conduit Size			PMAFIX Pro straight	
	Metric	Inches	NW	Thread type	IP68, IP69K, NEMA 6P
METRIC	12	-	10	M12x1.5	NKNH-M120-10
	16	¾"	12	M16x1.5	NKNH-M160-10
	20	½"	17	M20x1.5	NKNH-M202-10
	25	¾"	23	M25x1.5	NKNH-M257-11
	32	1"	29	M32x1.5	NKNH-M323-13
	40	1¼"	36	M40x1.5	NKNH-M406-13
	50	1½"	48	M50x1.5	NKNH-M508-14
	16	¾"	12	M20x1.5	NKNH-M202-10
	20	½"	17	M25x1.5	NKNH-M257-11
	25	¾"	23	M32x1.5	NKNH-M323-13



VCS PA6		VAML PA6		PCL PA6		CYL PA6		LLPA PA6	
Flexible, heavy conduits		Very flexible, medium conduits		Very flexible, medium conduits		Very flexible, medium conduits		Very flexible, medium conduits	
VCST-10B	-	VAMLT-10B	-	PCLT-10B	-	CYLT-10B	-	LLPA-10A	-
VCST-12B	-	VAMLT-12B	-	PCLT-12B	-	CYLT-12B	-	LLPA-12A	-
VCST-17B	VCSG-17B	-	VAMLG-17B	PCLT-17B	PCLG-17B	CYLT-17B	-	LLPA-17A	LLPAG-17A
-	VCSG-23B	-	VAMLG-23B	PCLT-23B	PCLG-23B	CYLT-23B	CYLG-23B	LLPA-23A	LLPAG-23A
-	VCSG-29B	-	VAMLG-29B	PCLT-29B	PCLG-29B	CYLT-29B	CYLG-29B	LLPA-29A	LLPAG-29A
-	VCSG-36B	-	VAMLG-36B	PCLT-36B	PCLG-36B	CYLT-36B	CYLG-36B	LLPA-36A	LLPAG-36A
-	VCSG-48B	-	VAMLG-48B	PCLT-48B	PCLG-48B	CYLT-48B	CYLG-48B	LLPA-48A	LLPAG-48A

PMACUT
 PMACUT is an excellent tool for cutting all PMA conduits. It guarantees precise and safe 90° angle cut.
 Order No. Cutting Tool:
PMACUT-38 (Cutting range: 0-38mm for PMA conduit NW: 07-29)
 Order No. Spare blade: **FP-38**
PMACUT-52 (Cutting range: 0-52mm for PMA conduit NW: 23-48)
 Order No. Spare blade: **FP-52**



VA		VW		VB		VNDZ		VI		VO	
45° Elbow		90° Elbow		90° Curved elbow		Straight with strain relief		Female thread adapter		Flange 90°	
IP66, NEMA 4, 4x	IP68, NEMA 6P	IP66, NEMA 4, 4x	IP68, NEMA 6P	IP66, NEMA 4, 4x	IP68, NEMA 6P	IP66, NEMA 4, 4x	IP68, NEMA 6P	IP66, NEMA 4, 4x	IP68, NEMA 6P	IP66, NEMA 4, 4x	IP68, NEMA 6P
BVAD-M120GT	-	BVWD-M120GT	BVWV-M120	-	-	-	-	Female thread adapters available with different UNEF threads (suitable for MIL-, AMP- and Souriau-multipin connectors)		Free inner diameter according PG size	
BVAD-M160GT	BVAV-M160	BVWD-M160GT	BVWV-M160	-	-	BVNDZ-M160GT	BVWV-M160	-	-	-	-
BVAD-M162GT	BVAV-M162	BVWD-M162GT	BVWV-M162	-	-	BVNDZ-M162GT	BVNZ-M162S	-	-	-	-
BVAD-M202GT	BVAV-M202	BVWD-M202GT	BVWV-M202	-	-	-	-	-	-	-	-
BVAD-M207GT	BVAV-M207	BVWD-M207GT	BVWV-M207	BVBD-M207GT	BVWV-M207	BVNDZ-M207GT	BVNZ-M207S	-	-	BVOD-P167GT	BVOV-P167
-	-	-	-	BVBD-M257GT	BVWV-M257	-	-	-	-	-	-
BVAD-M253GT	BVAV-M253	BVWD-M253GT	BVWV-M253	BVBD-M253GT	BVWV-M253	BVNDZ-M253GT	BVNZ-M253S	-	-	BVOD-P213GT	BVOV-P213
-	-	-	-	BVBD-M323GT	BVWV-M323	-	-	-	-	-	-
BVAD-M329GT	BVAV-M329	BVWD-M329GT	BVWV-M329	BVBD-M329GT	BVWV-M329	BVNDZ-M329GT	BVNZ-M329S	-	-	BVOD-P299GT	BVOV-P299
-	-	-	-	BVBD-M409GT	BVWV-M409	-	-	-	-	-	-
BVAD-M406GT	BVAV-M406	BVWD-M406GT	BVWV-M406	BVBD-M406GT	BVWV-M406	BVNDZ-M406GT	BVNZ-M406S	-	-	BVOD-P366GT	BVOV-P366
BVAD-M506GT	BVAV-M506	-	-	BVBD-M506GT	BVWV-M506	-	-	-	-	-	-
BVAD-M508GT	BVAV-M508	BVWD-M508GT	BVWV-M508	BVBD-M508GT	BVWV-M508	BVNDZ-M508GT	BVNZ-M508S	-	-	BVOD-P488GT	BVOV-P488
BVAD-M638GT	BVAV-M638	-	-	BVBD-M638GT	BVWV-M638	BVNDZ-M638GT	BVNZ-M638S	-	-	-	-



KAH metal		KBH metal		KNZ metal		KIS metal	
PMAFIX Pro 45° elbow		PMAFIX Pro 90° curved elbow		Straight with strain relief		Female thread adapter	
IP68, IP69K, NEMA 6P		IP68, IP69K, NEMA 6P		IP68, IP69K, NEMA 6P		IP68, IP69K, NEMA 6P	
NKAH-M120-10	-	NKBH-M120-10	-	NKNZ-M120/Px	-	-	-
NKAH-M160-10	-	NKBH-M160-10	-	NKNZ-M160/Px	-	-	-
NKAH-M162-10	-	NKBH-M162-10	-	-	-	NKIS-M162	-
NKAH-M202-10	-	NKBH-M202-10	-	NKNZ-M202/Px	-	-	-
NKAH-M207-10	-	NKBH-M207-10	-	NKNZ-M207/Px	-	NKIS-M207	-
NKAH-M257-11	-	NKBH-M257-11	-	NKNZ-M257/Px	-	-	-
NKAH-M253-11	-	NKBH-M253-11	-	-	-	NKIS-M253	-
NKAH-M323-13	-	NKBH-M323-13	-	NKNZ-M323/Px	-	-	-
NKAH-M329-13	-	NKBH-M329-13	-	-	-	NKIS-M329	-
NKAH-M409-13	-	NKBH-M409-13	-	NKNZ-M409/Px	-	-	-
NKAH-M406-13	-	NKBH-M406-13	-	-	-	NKIS-M406	-
NKAH-M506-14	-	NKBH-M506-14	-	NKNZ-M506/Px	-	-	-
NKAH-M508-14	-	NKBH-M508-14	-	NKNZ-M508/Px	-	NKIS-M508	-
NKAH-M638-14	-	NKBH-M638-14	-	NKNZ-M638/Px	-	NKIS-M638	-

x... various sealing inserts

PMA Smart Line Connectors



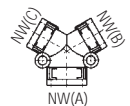
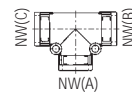
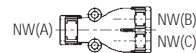
Products			LND
For Conduit Size	Metric	Inches	Straight IP66, NEMA 4, 4x
12	-	10	ALND-M120 ALND-M160
16	3/8"	12	ALND-M162 ALND-M202
20	1/2"	17	ALND-M207 ALND-M257
25	3/4"	23	ALND-M253 ALND-M323
32	1"	29	ALND-M329 ALND-M409
40	1 1/4"	36	ALND-M406 ALND-M506
50	1 1/2"	48	ALND-M508 ALND-M638



**PMACLIP/
PMAFIX
System
Supports /
Distributor**



Products			FH	GL/GH SGB	GPS	VY	FT/VT	FV		
For Conduit Size			System support	Tube clamp	Heavy System support	Y piece	T piece	V piece		
Metric	Inches	NW		polyamide	metal	IP66, NEMA 4, 4x	IP66, NEMA 4, 4x	IP66, NEMA 4, 4x	IP67 NEMA 6	
12	-	10	BFH-10-0	BGL-10	SGB-09	-	BFTD-101010GT	BFTL-101010	BFVD-101010GT	BFVL-101010
16	3/8"	12	BFH-12-0	BGL-12	SGB-11	BVYD-121010GT	BFTD-121212GT	BFTL-121212	BFVD-121010GT	BFVL-121010
20	1/2"	17	BFH-17-0	BGL-17	SGB-16	BVYD-171212GT	BFTD-171717GT	BFTL-171717	BFVD-171212GT	BFVL-171212
25	3/4"	23	BFH-23-0	BGH-23	SGB-21	BVYD-231717GT	BVTD-232323GT	BVTR-232323	BFVD-231717GT	BFVL-231717
32	1"	29	BFH-29-0	BGH-29	SGB-29	BVYD-292323GT	BFTD-292929GT	BFTL-292929	-	-
40	1 1/4"	36	BFH-36-0	BGH-36	SGB-36	BVYD-362929GT	BVTD-363636GT	BVTR-363636	-	-
50	1 1/2"	48	BFH-48-0	BGH-48	SGB-48	BVYD-483636GT	BVYR-483636	-	-	-



xxxx-17 12 12 xx

**PMAFIX
Connectors
with metal
threads**



Products			VN metal	VA metal	VW metal	VB metal	VNZ metal	GMM metal
For Conduit Size			Straight	45° Elbow	90° Elbow	90° Curved elbow	Straight with strain relief	Hexagonal lock nut, brass
Metric	Inches	NW	IP68, NEMA 6P	IP68, NEMA 6P	IP68, NEMA 6P	IP68, NEMA 6P	IP68, NEMA 6P	IP68, NEMA 6P
12	-	10	NVNV-M120-10 / -5 NVNV-M160-10 / -5	NVAV-M120-10	NVWV-M120-10 NVWV-M160-10	-	NVNZ-M120S/Px NVNZ-M160S/Px	GMM-M12 GMM-M16
16	3/8"	12	NVNV-M162-10 / -5 NVNV-M202-10 / -6	NVAV-M162-10	NVWV-M162-10 NVWV-M202-10	-	NVNZ-M202S/Px	GMM-M16 GMM-M20
20	1/2"	17	NVNV-M207-10 / -6 NVNV-M257-11 / -7	NVAV-M207-10 NVAV-M257-11	NVWV-M207-10	NVVB-M207-10 NVBV-M257-11	NVNZ-M207S/Px NVNZ-M257S/Px	GMM-M20 GMM-M25
25	3/4"	23	NVNV-M253-11 / -7 NVNV-M323-13 / -8	NVAV-M253-11 NVAV-M323-13	NVWV-M253-11	NVVB-M253-11 NVBV-M323-13	NVNZ-M253S/Px NVNZ-M323S/Px	GMM-M25 GMM-M32
32	1"	29	NVNV-M329-13 / -8 NVNV-M409-13 / -8	NVAV-M329-13 NVAV-M409-13	NVWV-M329-13	NVVB-M329-13 NVBV-M409-13	NVNZ-M329S/Px NVNZ-M409S/Px	GMM-M32 GMM-M40
40	1 1/4"	36	NVNV-M406-13 / -8 NVNV-M506-14 / -9	NVAV-M406-13 NVAV-M506-14	NVWV-M406-13	NVVB-M406-13 NVBV-M506-14	NVNZ-M406S/Px NVNZ-M506S/Px	GMM-M40 GMM-M50
50	1 1/2"	48	NVNV-M508-14 / -9 NVNV-M638-14 / -10	NVAV-M508-14 NVAV-M638-14	NVWV-M508-14 NVWV-M638-14	NVVB-M508-14 NVBV-M638-14	NVNZ-M508S/Px NVNZ-M638S/Px	GMM-M50 GMM-M63

Long / Short thread versions

x... various sealing inserts



**PMA
COFLEX
Divisible
Conduits**



LAD	LWD	MN
90° Elbow	45° Elbow	Hexagonal lock nut
IP66, NEMA 4, 4x	IP66, NEMA 4, 4x	black
ALWD-M120	ALAD-M120	BMN-M12
ALWD-M160	ALAD-M160	BMN-M16
ALWD-M162	ALAD-M162	BMN-M16
ALWD-M202	ALAD-M202	BMN-M20
ALWD-M207	ALAD-M207	BMN-M20
ALWD-M257	ALAD-M257	BMN-M25
ALWD-M253	ALAD-M253	BMN-M25
ALWD-M323	ALAD-M323	BMN-M32
ALWD-M329	ALAD-M329	BMN-M32
ALWD-M409	ALAD-M409	BMN-M40
ALWD-M406	ALAD-M406	BMN-M40
ALWD-M506	ALAD-M506	BMN-M50
ALWD-M508	ALAD-M508	BMN-M50
ALWD-M638	ALAD-M638	BMN-M63

Products	PACO PA	TN PA	GTN PA
For Conduit Size / Metric Thread Size	Flexible, medium, divisible conduits	Divisible Connectors, Metric	Divisible Lock Nuts, Metric
NW10 / M16x1.5	PACO-10B	BTNO-M1610	BGTN-M1610
NW14 / M20x1.5	PACO-14B	BTNO-M2014	BGTN-M2014
NW20 / M25x1.5	PACO-20B	BTNO-M2520	BGTN-M2520
NW23 / M32x1.5	PACO-23B	BTNO-M3223	BGTN-M3223
NW37 / M40x1.5	PACO-37B	BTNO-M4037	BGTN-M4037
NW45 / M50x1.5	PACO-45B	BTNO-M5045	BGTN-M5045

Catalog Overview

To order/download our catalogs please refer to: www.pma-usa.org



Company Profile
Overview of the structure and services of PMA Group



PMA UL Listed
Portfolio of Cable Protection Products



PMAFIX Pro
Next generation cable protection - IP69K for static and dynamic applications



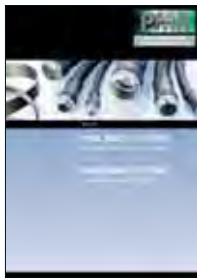
PMAFIX/PMAFLEX
The PMA main catalog with 6,500 superior products



PMA SMART LINE
Functional design with high quality at an excellent price



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Load discharging polyamide products for use in explosion endangered areas



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Special products for automation and robotic applications



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Special series of braids and braid terminations



ENERGY MARKETS
PMA conduits and fittings for the energy generation market.



RAILWAY INFRASTRUCTURE
PMA's multi-layer conduits for railway infrastructure applications

World-wide Recognitions

All PMA products are rigorously tried and tested to meet the demands of industry world-wide.



electrosuisse»



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PMA

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