













PMA® conduits

Conduit guide

Products				PMAFLEX Pro			PMAFLEX					
Application areas				PHT	POH	PSX	CYL	ESD	PCL	PEL	PIS/PIH	POS
Machine building 	General applications	static				●		●				
		dynamic	●			●		●		●	●	
	Heavy loads	static										
		dynamic										
	Outdoor applications	static									●	
		dynamic									●	
	Antistatic requirements	static					●					
		dynamic					●					
Traction vehicles 	Outdoor applications with sunlight exposure	static								●		
		dynamic								●		
	Outdoor applications	static	●								●	
		dynamic	●								●	
	Indoor applications	static		●								
Rail infrastructure 	Outdoor applications with sunlight exposure	static										
	Indoor and tunnel applications	static		●								
Automation/ Robotics 	Moving systems	dynamic	●			●		●		●	●	
	Systems with extreme movements	dynamic								●		
	Moving systems with antistatic requirements	dynamic					●					
Ship + Off-shore 	Outdoor general applications	static								●		
		dynamic	●								●	●
	Indoor applications	static				●		●				
		dynamic				●		●			●	
	Passenger area	static		●		●		●				
Energy 	Outdoor applications with sunlight exposure	static										
	Indoor applications	static		●		●		●	●		●	
	Exposed to radiation	static			●							
Food & Beverage 	General applications	static										
		dynamic										
Others     	Vehicle building	static	●									
	Telecommunications	indoor					●		●			
		outdoor										
	Building constructions	indoor		●								
		outdoor										
	Ex hazardous areas (ATEX, IECEx)	static						●				
	High temperature applications	static	●		●							

PMA® conduits

Conduit guide

Products		PMAFLEX Pro			PMAFLEX						
		PHT	POH	PSX	CYL	ESD	PCL	PEL	PIS/PIH	POS	
Material properties	Ductility										
	Reversed bending resistance										
	Compression resistance										
	Low temperature performance										
	High temperature performance										
	Resistance to weathering										
Approvals	Bi-National Recognition File UL1696 & CSA C22.2 No. 227.3-05 CSA C22.2 No. 227.3-05 Bi-National Listing File UL1660 & CSA C22.2 No. 227.2.1	 									
			Free from halogens, REACH + RoHS compliant	●	●	●	●	●	●	●	
			Non flame propagating EN61386			●	●	●	●	●	
	EN 45545-2 NFPA 130 (ASTM E162 – ASTM E662) BSS 7239/SMP 800-C ASTM E1354 PN-K 2511 GOST 12.1.044-89	 									
			DNV (Type approved)		●	●	●	●	●		
			Lloyd's Register (Type approved)		●	●	●	●	●		
			Bureau Veritas (Type approved)		●	●	●	●	●		
	Hazardous	ATEX IECEx	 								
				Food & Beverage	NSF Ecolab	 					
	Temperature range	Continuous operating temperature (acc. to DO 9.21-4510) Short term max. operating temperature 168h (acc. to DO 9.21-4360)	Min. (-) Max. (+)	-50			-25	-100	-40	-40	-50
135				95	170	105	90	105	60	95	95
Sizes	Nominal width min.	07	10	10	07	07	07	10	07	07	
	Nominal width max.	48	48	48	125	95	125	48	125	95	
	Metric size min.	10	12	12	10	10	10	12	10	10	
	Metric size max.	50	50	50	146	106	146	50	146	106	
Page no.		15	15	16	17	17	18	19	20	21	

PMAFLEX							PMAFLEX Multilayer							PMA overextruded			PMAFLEX PLUS (UL-Listed)		Divisible System		PMA Smart Line					
PUE	PVD	VAM	VAML	VCS	VOH	PLR	XESX	XPCL	XR90	XTPC	XSOL	XVCS1H	XVCS2H	XVCSF	XPCS	XPCS F	JFBD	JXPCSF	JLLPA	CUS	PUS	PACOF	PPCOF	LLPA	LLPF	
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
●				●							●					●	●								●	
																				●	●				●	
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●
	●	●	●	●	●	●	●	●	●	●										●	●	●	●	●	●	●
		●	●			●								●	●			●				●	●		●	
		●	●											●	●							●	●		●	
		●	●											●	●							●	●		●	
	●	●	●	●	●																				●	●
	●	●	●	●	●																				●	●
							●																			
							●									●										
																●										
																●										
-60	-40	-40	-40	-50	-40	-40	-50	-50	-40	-40	-50	-50	-50	-40	-50	-18	-50	-18		-40	-50			-40	-40	
50	150	105	105	105	105	105	90	105	95	105	95	90	90	105	95	95	90	95	105		105	95			105	105
-	-	160	160	160	160	160	150	160	150	150	150	120	120	160	150	150	120	150	-		160	150			160	160
17	10	10	10	07	07	07	10	12	17	17	12	12	12	10	10	07	12	12	12		17	17			07	07
70	29	48	125	95	125	48	48	48	48	70	48	48	48	48	48	48	48	48	48		48	48			70	70
20	12	12	12	10	10	10	12	16	20	20	16	16	16	12	12	12	16	16	16		20	20			10	10
80	32	50	146	106	146	50	50	50	50	80	50	50	50	50	50	50	30	50	50		50	50			80	80
21	22	22	23	23	24	24	*	25	**	**	25	26	26	27	27	28	29	29	30		31	31			32	33

* See PMA Ex-System brochure
 ** See PMA Automation brochure

Key
 ● correct