

TECHNICAL DATA SHEET

PMAFLEX - PCL - Corrugated Conduit

Very flexible, medium-grade

PMA



Very flexible conduit ideal for static and slightly dynamic applications



Applications:

- In machine building and installation industries

Features & Benefits:

- Very Good flexibility
- Very good impact strength also at low temperatures and dry conditions
- Self-extinguishing

Materials:

- High-grade, specially formulated polyamide 6

Compatible with:

- PMAFIX Pro, PMAFIX, PMA Smart Line fittings
- PMAGRIP flange
- PMA accessories

Temperature range:

- -50°C ... +105°C continuous, +160°C short-term

Conforms to:

- UL 1696 (UL Flie E80294)
- CSA C22.2 No. 227.3-05 (CSA File LL 88703)

Weathering resistance:

- Very good UV resistance and weathering characteristics, particularly in black

Colour:

- Black
- Grey

Chemical properties:

- Please refer to www.pma.ch (Technical Information / Chemical Resistance)

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

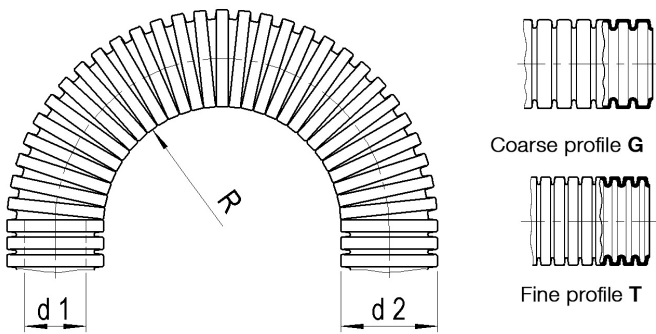
PCL-Index

	min.										max.
Ductility	[Progressive bar from min to max]										
Fatigue reversed bending	[Progressive bar from min to max]										
Compression resistance	[Progressive bar from min to max]										
Low temperature performance	[Progressive bar from min to max]										
Weathering resistance	[Progressive bar from min to max]										

Product selection:

Part no.		Profile	Conduit size		rec. fitting thread size			Dimensions in mm (nom.)			Weight kg/100 m	Packing unit metre
black	grey		NW	metric	PG	metric	NPT	d1	d2	stat. R		
PCLT-07B	PCLT-07S	T	7	10	7	M12x1.5		6.6	10.0	15	2.5	50
PCLT-10B	PCLT-10S	T	10	12	9	M12x1.5		9.8	12.8	20	3.1	50
PCLT-12B	PCLT-12S	T	12	16	11	M16x1.5		12.1	15.6	25	4.2	50
PCLT-17B	PCLT-17S	T	17	20	16	M20x1.5	16.8	16.8	21.1	35	5.7	50
PCLT-23B	PCLT-23S	T	23	25	21	M25x1.5	23.2	23.2	28.4	45	10.9	50
PCLT-29B	PCLT-29S	T	29	32	29	M32x1.5	28.8	28.8	34.5	55	14.7	50
PCLT-36B	PCLT-36S	T	36	40	36	M40x1.5	36.7	36.7	42.4	65	17.6	30
PCLT-48B	PCLT-48S	T	48	50	48	M50x1.5	48.2	48.2	54.5	80	25.1	30
PCLG-17B	PCLG-17S	G	17	20	16	M20x1.5	15.8	15.8	21.1	40	6.3	50
PCLG-23B	PCLG-23S	G	23	25	21	M25x1.5	21.9	21.9	28.4	50	10.9	50
PCLG-29B	PCLG-29S	G	29	32	29	M32x1.5	27.8	27.8	34.5	60	14.7	50
PCLG-36B	PCLG-36S	G	36	40	36	M40x1.5	36.1	36.1	42.4	75	17.6	30
PCLG-48B	PCLG-48S	G	48	50	48	M50x1.5	46.9	46.9	54.5	90	25.1	30
PCLG-56B	PCLG-56S	G	56	68	-	-	56.7	56.7	67.4	120	33.0	30
PCLG-70B	PCLG-70S	G	70	80	-	-	67.5	67.5	79.7	140	46.0	10
PCLG-95B	PCLG-95S	G	95	106	-	-	91.6	91.6	106.2	190	66.0	10
PCLG-125B	PCLG-125S	G	125	146	-	-	125.5	125.5	146.2	260	102.5	6

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time
 Conduit size NW10 - NW48 UL recognized to UL 1696 (UL file E 80294) / CSA C22.2 No. 227.3-05 (CSA File LL 88703)



stat. R. = lowest recommended bending radius for static (fixed) installation

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	> 5 J	(+23°C)	PMA DO 9.21-4330
	> 12.2 J	(-18°C)	UL 1696 / CSA C22.2 Nr. 227.3
	class 3, > 2J	(-45°C)	IEC EN 61386
	class 4, > 4J	(-15°)	IEC EN 61386
	class 5, > 20 J	(+23°C)	IEC EN 61386
Compression strength	> 200 N	(50 x 50 mm)	PMA DO 9.21-4320
	> 400 N	(100 x 100 mm)	PMA DO 9.21-4320
	class 1		IEC EN 61386
Reverse bending resistance	> 250'000 cycles		PMA DO 9.21-4420
	> 750'000 cycles		PMA DO 9.21-4425
	class 4 (flexible 5000 cycles)	(-45°C)	IEC EN 61386
Pull-out resistance conduit - fitting series			
PMAFIX Pro	> 350 N		PMA DO 9.21-4610
PMAFIX IP68	> 300 N		PMA DO 9.21-4610
PMAFIX IP66	> 270 N		PMA DO 9.21-4610
PMAFIX Pro, PMAFIX IP66 & IP68	class 2		IEC EN 61386

Note: Testing at 23°C, 50% r.h., conduit nominal width 17, unless otherwise stated

Thermal properties:	Value:	Test parameters:	Test method:
Continuous application temperature	-50 ... +105°C		PMA DO 9.21-4510
Upper application temperature	+120°C	(20'000 h)	PMA DO 9.21-4360
Short-term	+160°C	(168 h)	PMA DO 9.21-4360
Application temperature range	-18 ... +105°C		UL 1696 / CSA C22.2 Nr. 227.3
Application temperature range	-45 ... +105°C		IEC EN 61386

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	non flame-propagating		IEC EN 61386
Glowing wire flammability index	850°C		EN 60695-2-10
Fire performance	V2		UL 94
Fire performance	compliant		UL 224
Fire performance	compliant		UL 1696

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