

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 File 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

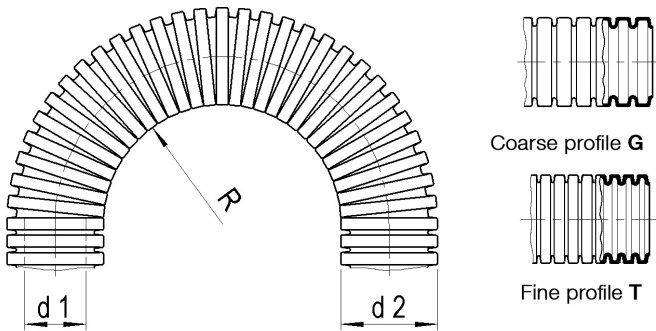
PCL-Index

	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	Packing unit
black	grey	T/G	NW	metric	PG	metric	d1	d2	stat. R	kg/100 m	metre
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	21.1	35	5.7	50
PCLT-23B	PCLT-23S	T	23	25	21	M25x1.5	23.2	28.4	45	10.9	50
PCLT-29B	PCLT-29S	T	29	32	29	M32x1.5	28.8	34.5	55	14.7	50
PCLT-36B	PCLT-36S	T	36	40	36	M40x1.5	36.7	42.4	65	17.6	30
PCLT-48B	PCLT-48S	T	48	50	48	M50x1.5	48.2	54.5	80	25.1	30
PCLG-17B	PCLG-17S	G	17	20	16	M20x1.5	15.8	21.1	40	6.3	50
PCLG-23B	PCLG-23S	G	23	25	21	M25x1.5	21.9	28.4	50	10.9	50
PCLG-29B	PCLG-29S	G	29	32	29	M32x1.5	27.8	34.5	60	14.7	50
PCLG-36B	PCLG-36S	G	36	40	36	M40x1.5	36.1	42.4	75	17.6	30
PCLG-48B	PCLG-48S	G	48	50	48	M50x1.5	46.9	54.5	90	25.1	30
PCLG-56B	PCLG-56S	G	56	68	-	-	56.7	67.5	120	33.0	30
PCLG-70B	PCLG-70S	G	70	80	-	-	67.5	79.6	140	46.0	10
PCLG-95B	PCLG-95S	G	95	106	-	-	91.6	107.0	190	66.0	10
PCLG-125B	PCLG-125S	G	125	146	-	-	125.5	146.0	260	85.0	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. = min. 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, > 2 J	(-45°C)	IEC EN 61386
	class 4, > 4 J	(-15°C)	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
Resistance to fatigue	> 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 61386-23
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
Fire performance	V2		UL 94
Fire performance	compliant		UL 224
Fire performance	compliant		UL 1696

ABB Switzerland Ltd,
PMA Cable Protection
Aathalstrasse 90
8610 Uster, Switzerland
Phone: +41 58 585 00 11
pma-info@ch.abb.com
www.pma.ch

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