

TECHNICAL DATA SHEET

PMA EcoGuard™ - RPPA - Corrugated Conduit

Very flexible, medium-grade, recycled content

PMA

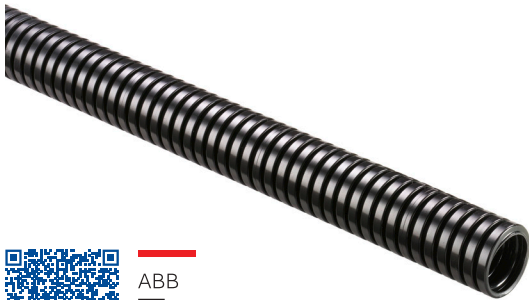


ABB
Eco
Solutions™

Presenting PMA EcoGuard™ PA6

- 50% recycle-based content primarily sourced from discarded fishing nets
- 30% savings in CO₂e emissions*
- Third-party verified Lifecycle Assessment (Type III)



Applications:

- In machine and equipment applications

Features & Benefits:

- High flexibility
- Very good mechanical performance
- Third-party validated Life Cycle Assessment (LCA)
- ABB EcoSolutions™ certified

Materials:

- Recycle-based polyamide 6
- High-grade, specially formulated polyamide 6

Compatible with:

- PMA EcoGuard product series
- PMAFIX Pro, PMAFIX, PMA Smart Line fittings
- PMA accessories

Temperature range:

- -40°C ... +95°C continuous, +160°C short-term

Conforms to:

- 50% recycle-based content primarily sourced from discarded fishing nets
- 30% savings in CO₂e emissions*
- 50% reduction in net use of fresh water*

* in comparison to conventional alternative based on LCA data

Weathering resistance:

- Good UV resistance and weathering characteristics

Colour:

- Black

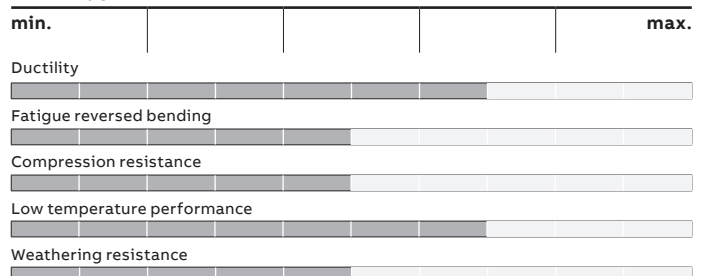
Chemical properties:

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

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

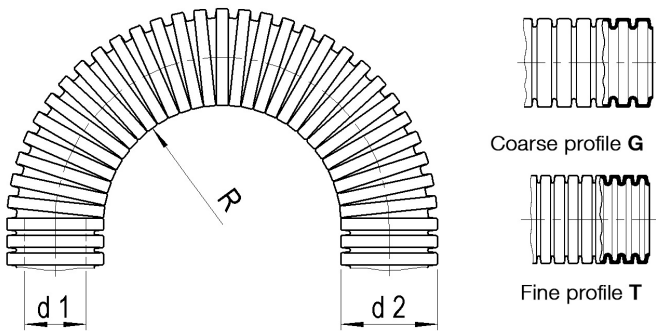
RPPA-Index



Product selection:

Part no.	Profile	Conduit size		rec. fitting thread size		Dimensions in mm (nom.)			Weight kg/100 m	Packing unit metre
		NW	metric	PG	metric	d1	d2	stat. R		
RPPAT-10B.50	T	10	12	9	M12 x 1.5	9.8	12.8	20	2.8	50
RPPAT-12B.50	T	12	16	11	M16 x 1.5	12.1	15.6	25	3.8	50
RPPAT-17B.50	T	17	20	16	M20 x 1.5	16.8	21.1	35	5.7	50
RPPAT-23B.50	T	23	25	21	M25 x 1.5	23.2	28.4	45	9.9	50
RPPAT-29B.50	T	29	32	29	M32 x 1.5	28.8	34.5	55	13.3	50
RPPAT-36B.30	T	36	40	36	M40 x 1.5	36.7	42.4	65	16.0	30
RPPAT-48B.30	T	48	50	48	M50 x 1.5	48.2	54.5	80	22.8	30

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time



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

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	> 4.5 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, > 6 J	(-15°C)	IEC EN 61386
	class 5, > 10 J	(+23°C)	IEC EN 61386
Compression strength	> 150 N	(50 x 50 mm)	PMA DO 9.21-4320
	> 300 N	(100 x 100 mm)	PMA DO 9.21-4320
	class 1		IEC EN 61386
Resistance to fatigue	> 25'000 cycles		PMA DO 9.21-4420
	> 50'000 cycles		PMA DO 9.21-4425
	class 3 (pliable)	(-45°C)	IEC EN 61386-22
	class 3 (flexible 5000 cycles)	(-25°C)	IEC EN 61386-23
Pull-out resistance conduit - fitting series			
PMAFIX IP68	> 210 N		PMA DO 9.21-4610
PMAFIX IP66	> 190 N		PMA DO 9.21-4610
PMA Smart Line	> 150 N		PMA DO 9.21-4610
PMA Smart Line, PMAFIX IP66 & IP68	class 1		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	-40 ... +95°C		PMA DO 9.21-4510
Upper application temperature	+110°C	(20'000 h)	PMA DO 9.21-4360
Short-term	+160°C	(168 h)	PMA DO 9.21-4360
Application temperature range	-18 ... +95°C		UL 1696 / CSA C22.2 Nr. 227.3
Application temperature range	-40 ... +95°C		IEC EN 61386

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	non flame-propagating		IEC EN 61386

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

Let's write the future.
Together. **abb.com**

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Installation Products Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc. Copyright© 2019 ABB Installation Products Inc. All rights reserved

