TECHNICAL DATA SHEET

PMAFLEX Multilayer - XPCL - Corrugated Conduit

Very flexible, medium-duty

Very flexible conduit which allows easy cable insertion due to low friction inner layer

Applications:
- In machine building and equipment with high requirements

Features & Benefits:
- Very long life time, 15 - 20 years for standard applications
- Eeasy cable insertion, low friction inner layer impermeable to water and steam
- Very good flexibility
- Good mechanical strength even at low temperatures and low humidity
- Self-extinguishing

Materials:
- Outer layer: High-grade, specially formulated polyamide 6
- Intermediate layer: spec. bonding compound
- Inner layer: Specially modified polyethylene

Compatible with:
- PMAFIX Pro, PMAFIX fittings
- PMA accessories

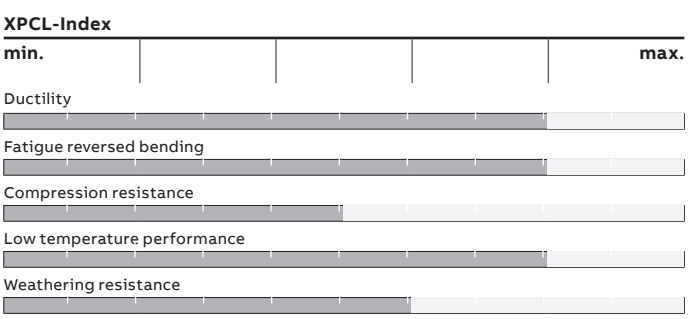
Temperature range:
- –50°C ... +105°C continuous, +160°C short-term

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

Colour:
- Outer layer: black or grey, other colours on request
- Inner layer: blue

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

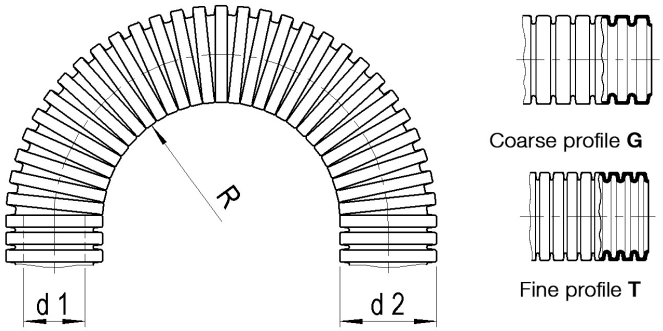
Environmental properties:
- Free from halogens and cadmium
- RoHS and REACH compliant



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
XPCLT-10BB	XPCLT-10SB	T	10	12	9	M12x1.5	9.6	12.8	20	3.0	50
XPCLT-12BB	XPCLT-12SB	T	12	16	11	M16x1.5	11.9	15.6	25	4.0	50
XPCLT-17BB	XPCLT-17SB	T	17	20	16	M20x1.5	16.5	21.1	35	6.0	50
XPCLG-17BB	XPCLG-17SB	G	17	20	16	M20x1.5	15.7	21.1	40	6.0	50
XPCLG-23BB	XPCLG-23SB	G	23	25	21	M25x1.5	21.9	28.4	50	9.5	50
XPCLG-29BB	XPCLG-29SB	G	29	32	29	M32x1.5	27.6	34.5	60	13.5	50
XPCLG-36BB	XPCLG-36SB	G	36	40	36	M40x1.5	36.0	42.4	75	16.0	30
XPCLG-48BB	XPCLG-48SB	G	48	50	48	M50x1.5	47.1	54.5	90	22.0	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	> 6 J	(+ 23°C)	PMA DO 9.21-4330
	> 12.2 J	(- 18°C)	CSA C22.2 Nr. 227.3 / UL 1696
Compression strength	> 150 N	(50 x 50 mm)	PMA DO 9.21-4320
	> 300 N	(100 x 100 mm)	PMA DO 9.21-4320
Resistance to fatigue	> 250‘000 cycles		PMA DO 9.21-4420
	> 750‘000 cycles		PMA DO 9.21-4425
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

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	non flame-propagating		IEC EN 61386
Fire performance	V2		UL 94

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