

TECHNICAL DATA SHEET

PMAFLEX - CYL - Corrugated Conduit

Very flexible, medium-grade

PMA



Very flexible conduit with good mechanical characteristics even under extreme conditions

**Applications:**

- In machine building and installation industries

Features & Benefits:

- Very Good flexibility
- 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:

- -40°C ... $+105^{\circ}\text{C}$ continuous, $+160^{\circ}\text{C}$ 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

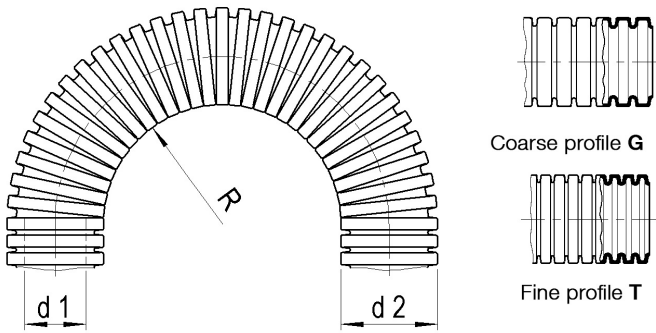
CYL-Index

min.											max.
Ductility	████████████████████										
Fatigue reversed bending	████████████████████										
Compression resistance	████████████████████										
Low temperature performance	████████████████████										
Weathering resistance	████████████████████										

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
CYLT-07B*	CYLT-07S*	T	7	10	7	M12x1.5	6.6	10.0	15	2.2	50
CYLT-10B	CYLT-10S	T	10	12	9	M12x1.5	9.8	12.8	20	2.8	50
CYLT-12B	CYLT-12S	T	12	16	11	M16x1.5	12.1	15.6	25	3.8	50
CYLT-14B*	CYLT-14S*	T	14		-	-	14.2	18.5	35	4.8	50
CYLT-17B	CYLT-17S	T	17	20	16	M20x1.5	16.8	21.1	35	5.7	50
CYLT-23B	CYLT-23S	T	23	25	21	M25x1.5	23.2	28.4	45	9.9	50
CYLT-29B	CYLT-29S	T	29	32	29	M32x1.5	28.8	34.5	55	13.3	50
CYLT-36B	CYLT-36S	T	36	40	36	M40x1.5	36.7	42.4	65	16.0	30
CYLT-48B	CYLT-48S	T	48	50	48	M50x1.5	48.2	54.5	80	22.8	30
CYLG-23B	CYLG-23S	G	23	25	21	M25x1.5	21.9	28.4	50	9.9	50
CYLG-29B	CYLG-29S	G	29	32	29	M32x1.5	27.8	34.5	60	13.3	50
CYLG-36B	CYLG-36S	G	36	40	36	M40x1.5	36.1	42.4	75	16.0	30
CYLG-48B	CYLG-48S	G	48	50	48	M50x1.5	46.9	54.5	90	22.8	30
CYLG-56B*	CYLG-56S*	G	56	68	-	-	56.7	67.5	120	33.0	30
CYLG-70B*	CYLG-70S*	G	70	80	-	-	67.5	79.6	140	46.0	10
CYLG-95B*	CYLG-95S*	G	95	106	-	-	91.6	107.0	190	66.0	10
CYLG-125B*	CYLG-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
 * Not approved to UL 1696 / CSA C22.2 No. 227.3-05 (UL file E 80294)



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, > 6 J	(-15°C)	IEC EN 61386
	class 5, > 20 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	> 100'000 cycles		PMA DO 9.21-4420
	> 250'000 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	> 300 N		PMA DO 9.21-4610
PMAFIX IP68	> 270 N		PMA DO 9.21-4610
PMAFIX IP66	> 250 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	-40 ... +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 1696

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