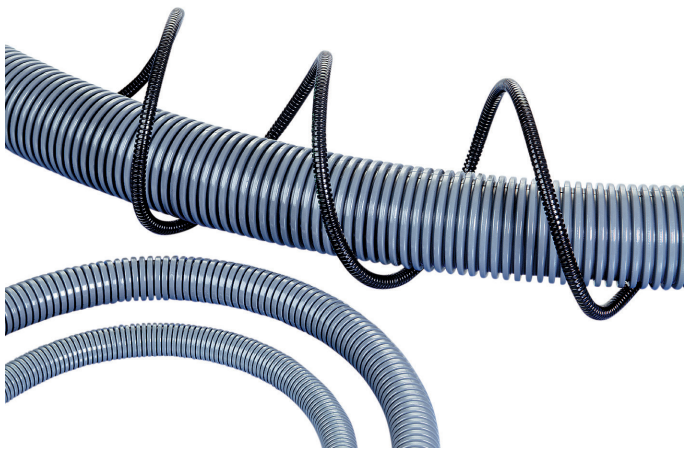


TECHNICAL DATA SHEET

PMA FLEXPLus - CUS - Corrugated Conduit

Very flexible, medium-duty

PMA



Very flexible conduit, the inexpensive solution for requirements according to UL 1660 (UL Listed)



Applications:

- For machine building and installation industries
- For electrical installations

Features & Benefits:

- Cost-effective
- Very Good flexibility
- Very good mechanical properties even under extreme conditions, such as low temperatures and low humidity
- Self-extinguishing

Materials:

- High-grade, specially formulated polyamide 6

Compatible with:

- PMA FIXPlus fittings

Temperature range:

- -40°C ... +105°C continuous, +160°C short-term

Conforms to:

- UL Listed according to UL1660 (UL File E311441)

Weathering resistance:

- 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

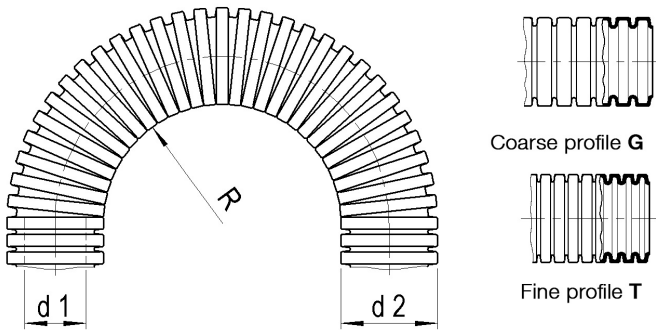
CUS-Index

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

Product selection:

Part no.		Profile	Conduit size			rec. fitting thread size			Dimensions in mm (nom.)			Weight kg/100 ft	Packing unit PU/ft
black	grey		NW	metric	Inch	PG	metric	NPT	d1	d2	stat. R		
CUSG-17B	CUSG-17S	G	17	20	½"	16	M20x1.5	½"	15.5	21.1	40	2.4	100
CUSG-23B	CUSG-23S	G	23	25	¾"	21	M25x1.5	¾"	21.7	28.4	50	3.8	100
CUSG-29B	CUSG-29S	G	29	32	1"	29	M32x1.5	1"	27.4	34.5	60	5.0	100
CUSG-36B	CUSG-36S	G	36	40	1 ¼"	36	M40x1.5	1 ¼"	35.5	42.4	75	6.1	100
CUSG-48B	CUSG-48S	G	48	50	1 ½"	48	M50x1.5	1 ½"	46.5	54.5	90	7.9	100

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	> 5 J	(+23°C)	PMA DO 9.21-4330
	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	> 200'000 cycles		PMA DO 9.21-4420
	> 500'000 cycles		PMA DO 9.21-4425
	class 4, flexible	(-45°C)	IEC EN 61386
Pull-out resistance conduit - fitting series:			
PMA FIXPLus	> 250 N		PMA DO 9.21-4610
	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 ... +60°C		UL 1660 / CSA C22.2 Nr. 227.2.1

Fire safety properties:	Value:	Test parameters:	Test method:
Fire performance	non flame-propagating		IEC EN 61386
Oxygen index	> 27 %		EN ISO 4589-2
Fire performance	V2		UL 94
Fire performance	compliant		UL 224

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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