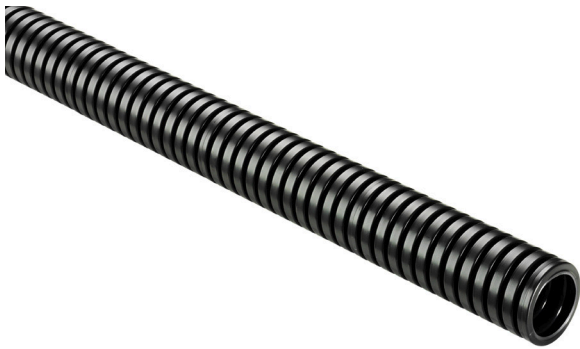


TECHNICAL DATA SHEET

PMAFLEX - ESD - Corrugated Conduit

Highly flexible, light-grade

PMA



Highly flexible conduit ideal for areas where electrostatic charge and uncontrolled discharge need to be avoided



Applications:

- For dynamic applications in robotics and automation where electrostatic charge and uncontrolled discharge need to be avoided

Features & Benefits:

- Prevents electrostatic charging
- For indoor and outdoor use
- High dynamic load resistance
- Very good cold temperature performance
- Very good chemical properties

Materials:

- High-grade, specially formulated polyamide 12

Compatible with:

- PMA Ex-System, PMAFIX fittings (ESD type on request)

Temperature range:

- -40°C ... +90°C continuous, +150°C short-term

Weathering resistance:

- Excellent 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

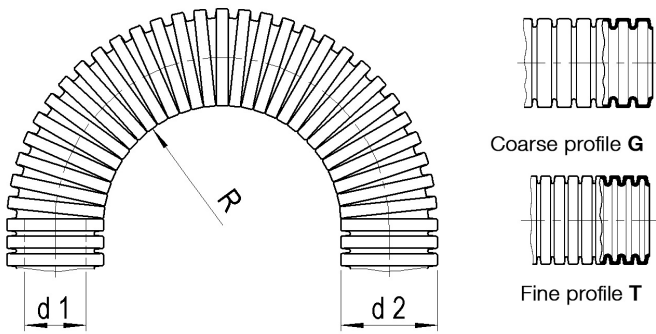
ESD-Index

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 kg/100 m	Packing unit metre
		NW	metric	PG	metric	d1	d2	stat. R	dyn. R.		
ESDT-07B	T	7	10	7	M12x1.5	6.7	10.0	15	40	2.2	50
ESDT-10B	T	10	12	9	M12x1.5	9.7	12.8	20	50	2.8	50
ESDT-12B	T	12	16	11	M16x1.5	12.0	15.6	25	65	3.8	50
ESDT-17B	T	17	20	16	M20x1.5	16.6	21.1	35	85	5.7	50
ESDT-23B	T	23	25	21	M25x1.5	23.0	28.4	40	110	9.9	50
ESDT-29B	T	29	32	29	M32x1.5	28.7	34.5	50	135	13.3	50
ESDT-36B	T	36	40	36	M40x1.5	36.8	42.4	60	170	16.0	30
ESDT-48B	T	48	50	48	M50x1.5	48.0	54.5	75	220	22.8	30
ESDG-56B	G	56	68	-	-	55.8	67.5	110	270	33.0	30
ESDG-70B	G	70	80	-	-	67.4	79.6	130	320	46.0	10
ESDG-95B	G	95	106	-	-	91.5	107.0	170	430	66.0	10

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

dyn. R. = min. bending radius for dynamic (flexible) installation

Mechanical Properties:	Value:	Test parameters:	Test method:
Impact strength	> 5 J		PMA DO 9.21-4330
Compression strength	> 175 N	(50 x 50 mm)	PMA DO 9.21-4320
	> 350 N	> 350 (100 x 100 mm)	
Resistance to fatigue	> 3'000'000 cycles	(-45°C)	PMA DO 9.21-4420
	> 10'000'000 cycles		PMA DO 9.21-4425
	> 5'000 cycles		IEC EN 61386-23
Pull-out resistance conduit - fitting series			
PMAFIX IP68	> 200 N		PMA DO 9.21-4610
PMAFIX IP66	> 150 N		PMA DO 9.21-4610

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 ... +90°C		PMA DO 9.21-4510
Upper application temperature	+110°C	(20'000h)	
Short-term	+150°C	(168 h)	

Electrical properties:	Value:	Test parameters:	Test method:
Specific surface resistivity	< 10 ⁶ Ω		IEC 62631-3-2

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