



## Type EWL-PAB



### Product information

The EWL-PAB cable protection conduits are made of specially modified polyamide 6. The material is halogen, phosphor and cadmium-free. The affordable EWL-PAB cable protection conduits are characterized by their excellent self-extinguishing properties and high crush and impact resistance. For static applications involving low to medium mechanical loads.

Applications:

- Plant engineering
- Mechanical engineering
- Vehicle engineering

### Information, conformities and approvals



Article	Order No.	Color	UV	metric	PG	NW	A Ø mm	B Ø mm	Stat./Dyn. Radius mm	Weight kg/100m	PU m
EWL-PAB 06	83164152	Black	✓				6.9	10	23/-	1.5	100
EWL-PAB 06, drum	83165200	Black	✓				6.9	10	23/-	1.5	2000
EWL-PAB M10/ P07	83164154	Black	✓	M10	PG07	NW 7	8.55	11.5	20/-	1.8	100
EWL-PAB M10/ P07, drum	83165201	Black	✓	M10	PG07	NW 7	8.55	11.5	20/-	1.8	1900
EWL-PAB M12/ P09	83164156	Black	✓	M12	PG09	NW 10	9.9	13	20/-	2.2	100
EWL-PAB M12/ P09, 500m <sup>1)</sup>	83164157	Black	✓	M12	PG09	NW 10	9.9	13	20/-	2.2	500
EWL-PAB M12/ P09, drum	83165202	Black	✓	M12	PG09	NW 10	9.9	13	20/-	2.2	1500
EWL-PAB M16/ P11	83164158	Black	✓	M16	PG11	NW 12	12.2	15.7	25/-	2.9	100
EWL-PAB M16/ P11, 500m <sup>1)</sup>	83164104	Black	✓	M16	PG11	NW 12	12.2	15.7	25/-	2.9	500
EWL-PAB M16/ P11, drum	83165203	Black	✓	M16	PG11	NW 12	12.2	15.7	25/-	2.9	1000
EWL-PAB M18/ P13	83164161	Black	✓	M18	PG13	NW 13	14.2	18.4	40/-	4.0	100
EWL-PAB M18/ P13, drum	83165204	Black	✓	M18	PG13	NW 13	14.2	18.4	40/-	4.0	750
EWL-PAB M20/ P16S	83164164	Black	✓	M20	PG16	NW 17	16.5	20.9	45/-	5.4	100



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EWL-PAB M20/ P16	83164162	Black	✓	M20	PG16	NW 17	15.6	21.2	50/-	5.0	100
EWL-PAB M20/ P16, 300m 1)	83164105	Black	✓	M20	PG16	NW 17	15.6	21.2	50/-	6.1	300
EWL-PAB M20/ P16, drum	83165205	Black	✓	M20	PG16	NW 17	15.6	21.2	50/-	6.3	450
EWL-PAB M25/ P21S	83164167	Black	✓	M25	PG21	NW 23	23.1	28.3	50/-	7.4	100
EWL-PAB M25/ P21	83164166	Black	✓	M25	PG21	NW 23	22.1	28.5	55/-	9.6	100
EWL-PAB M25/ P21, 250m 1)	83164103	Black	✓	M25	PG21	NW 23	22.1	28.5	55/-	9.6	250
EWL-PAB M25/ P21, drum	83165207	Black	✓	M25	PG21	NW 23	22.1	28.5	55/-	9.6	310
EWL-PAB M32/ P29S	83164169	Black	✓	M32	PG29	NW 29	28.5	34.5	60/-	10.6	50
EWL-PAB M32/ P29S, 200m	83980335	Black	✓	M32	PG29	NW 29	28.5	34.5	60/-	10.6	200
EWL-PAB M32/ P29, drum	83165209	Black	✓	M32	PG29	NW 29	27.8	34.5	70/-	3.96	240
EWL-PAB M32/ P29	83164168	Black	✓	M32	PG29	NW 29	27.8	34.5	70/-	10.8	50
EWL-PAB M32/ P29, 200m 1)	83164174	Black	✓	M32	PG29	NW 29	27.8	34.5	70/-	10.8	200
EWL-PAB M40/ P36S	83164171	Black	✓	M40	PG36	NW 36	36.2	42.1	75/-	12.8	25
EWL-PAB M40/ P36	83164170	Black	✓	M40	PG36	NW 36	35	42.6	80/-	12.8	25
EWL-PAB M50/ P48S 1)	83164173	Black	✓	M50	PG48	NW 48	47.5	54.5	90/-	17.0	25
EWL-PAB M50/ P48	83164172	Black	✓	M50	PG48	NW 48	46.3	53.9	100/-	17.0	25
EWL-PAB 56	83164176	Black	✓			NW 56	56.3	70	160/-	30.0	25
EWL-PAB 70	83164175	Black	✓			NW 70	68	80	200/-	40.0	25
EWL-PAB 06	83164178	Gray	✗				6.9	10	23/-	1.5	100
EWL-PAB M10/ P07	83164180	Gray	✗	M10	PG07	NW 7	8.55	11.5	20/-	1.8	100
EWL-PAB M12/ P09	83164182	Gray	✗	M12	PG09	NW 10	9.9	13	20/-	2.2	100
EWL-PAB M16/ P11	83164184	Gray	✗	M16	PG11	NW 12	12.2	15.7	25/-	2.9	100
EWL-PAB M18/ P13	83164186	Gray	✗	M18	PG13	NW 13	14.2	18.4	40/-	4.0	100
EWL-PAB M20/ P16S	83164189	Gray	✗	M20	PG16	NW 17	16.5	20.9	45/-	5.4	100



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EWL-PAB M20/ P16	83164188	Gray	✗	M20	PG16	NW 17	15.6	21.2	50/-	6.3	100
EWL-PAB M25/ P21S	83164191	Gray	✗	M25	PG21	NW 23	23.1	28.3	50/-	7.4	100
EWL-PAB M25/ P21	83164190	Gray	✗	M25	PG21	NW 23	22.1	28.5	55/-	9.6	100
EWL-PAB M32/ P29S	83164193	Gray	✗	M32	PG29	NW 29	28.5	34.5	60/-	10.6	50
EWL-PAB M32/ P29	83164192	Gray	✗	M32	PG29	NW 29	27.8	34.5	70/-	10.8	50
EWL-PAB M40/ P36S	83164195	Gray	✗	M40	PG36	NW 36	36.2	42.1	75/-	12.8	25
EWL-PAB M40/ P36	83164194	Gray	✗	M40	PG36	NW 36	35	42.6	80/-	12.8	25
EWL-PAB M50/ P48S	83164197	Gray	✗	M50	PG48	NW 48	47.5	54.5	90/-	17.0	25
EWL-PAB M50/ P48	83164196	Gray	✗	M50	PG48	NW 48	46.3	53.9	100/-	17.0	25

1) No stock goods, delivery time and minimum order quantities upon request

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### Material properties



mod. polyamide PA 6



High angle consistency

>550 N 50 x 50 mm According to IEC EN 61386 M25/P21 Testing at 23 °C  
>950 N 100 x 100 mm According to IEC EN 61386 M25/P21 Testing at 23 °C



Flexural fatigue strength

>16000 Cycles According to IEC EN 61386 M25/P21 Testing at -45 °C



Impact strength

3 According to IEC EN 61386 M25/P21 Testing at -25 °C



System tear-out strength

>170 N According to IEC EN 61386 M25/P21 Testing at 23 °C Fitting M-PRO

### Thermal properties



Temperature / temperature range

-45 °C - 120 °C / short term: 160 °C



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### Fire properties



Fire classification

acc. to UL94: V0 self-extinguishing



Fire properties as per EN 45545-2

C.I.T. R22 / R23 HL3 :0.61 NF X 70-100-1/-2 600°C (1112 °F)  
Ds (max.) R22 / R23 HL3 :68 ISO 5659-2 (25 KW/m<sup>2</sup>)  
LOI R22 / R23 HL3 :≥ 32 % ISO 4589-2



Fire properties as per NFPA

ASTM E 162  
ASTM E 1354  
ASTM E 662  
Boeing BSS 7239  
Boeing BSS 7242  
Bombardier SMP 800-C

### Chemical resistances



Resistant to:

Alcohol  
Mineral oils  
Greases  
Fuels

### Technical information



Halogen-free



UV-resistant acc. to ISO 4892-2



Interior



exterior

### Conformity



RoHS (EC Directive 2011/65/EU)



ECE 324 R 118

### Approvals and operating permits



EU railway approval



## Type EWL-PAB

### Approvals and operating permits



ECOLAB approval



cURus approval

### Classification

ETIM 9: EC001175  
ECLASS 14: 27430305  
UNSPSC 26.0801: 39131601

### General information



Made in Germany