



Type EW-PRF



Product information

The EW-PRF cable protection conduits are made of specially modified polyamide 12. The material is halogen, phosphor and cadmium-free. The conduits are suitable for dynamic applications involving medium to high mechanical loads. The EW-PRF cable protection conduits are used both in the robotics engineering as well as in the aviation industry.

They feature the following advantages:

- High flexibility
- Excellent impact strength
- Excellent self-extinguishing properties
- Very low levels of smoke gas



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
EW-PRF M10/P0783181252		Black	✓	M10	PG07	NW 7	8.5	11.5	21/46	2.0	50
EW-PRF M12/P0983181254		Black	✓	M12	PG09	NW 10	9.9	13	22/51	2.5	50
EW-PRF M16/P1183181256		Black	✓	M16	PG11	NW 12	12.1	15.7	28/68	3.6	50
EW-PRF M20/P1683181258		Black	✓	M20	PG16	NW 17	15.6	21.1	38/95	5.5	50
EW-PRF M20/P16S83181260		Black	✓	M20	PG16	NW 17	16.6	20.7	35/90	5.6	50
EW-PRF M25/P2183181262		Black	✓	M25	PG21	NW 23	21.8	28.3	49/109	9.0	50
EW-PRF M25/P21S83181462		Black	✗	M25	PG21	NW 23	23.1	28.3	44/104	9.5	50
EW-PRF M32/P2983181264		Black	✓	M32	PG29	NW 29	27.8	34.6	67/142	12.0	25
EW-PRF M32/P29S83181464		Black	✓	M32	PG29	NW 29	28.5	34.5	62/132	14.0	25
EW-PRF M40/P3683181266		Black	✓	M40	PG36	NW 36	35.5	42.5	81/191	17.0	25
EW-PRF M50/P4883181268		Black	✓	M50	PG48	NW 48	46.3	54	102/237	21.0	25
EW-PRF 56 ¹⁾ 83181270		Black	✓			NW 56	56.3	70	160/-	36.0	25
EW-PRF 7083181272		Black	✓			NW 70	68.4	80	200/390	44.0	25



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Article	Order No.	Color	UV	metric	PG	NW	A Ø mm	B Ø mm	Stat./Dyn. Radius mm	Weight kg/100m	PU m
EW-PRF 95 1)	83181274	Black	✓			NW 95	89.4	106.1	265/500	80.0	10
EW-PRF M10/P07	83181212	Gray	✗	M10	PG07	NW 7	8.5	11.5	21/46	2.1	50
EW-PRF M12/P09	83181214	Gray	✗	M12	PG09	NW 10	9.9	13	22/51	2.5	50
EW-PRF M16/P11	83181216	Gray	✗	M16	PG11	NW 12	12.1	15.7	28/68	3.6	50
EW-PRF M20/P16	83181218	Gray	✗	M20	PG16	NW 17	15.6	21.1	38/95	5.5	50
EW-PRF M20/ P16S	83181220	Gray	✗	M20	PG16	NW 17	16.6	20.7	35/90	5.6	50
EW-PRF M25/P21	83181222	Gray	✗	M25	PG21	NW 23	21.8	28.3	49/109	9.5	50
EW-PRF M25/ P21S	83181422	Gray	✗	M25	PG21	NW 23	23.1	28.3	44/104	9.5	50
EW-PRF M32/P29	83181224	Gray	✗	M32	PG29	NW 29	27.8	34.6	67/142	12.0	25
EW-PRF M32/ P29S	83181424	Gray	✗	M32	PG29	NW 29	28.5	34.5	62/132	14.0	25
EW-PRF M40/ P36	83181226	Gray	✗	M40	PG36	NW 36	35.5	42.5	81/191	17.0	25
EW-PRF M50/ P48	83181228	Gray	✗	M50	PG48	NW 48	46.3	54	102/237	21.0	25
EW-PRF 70	83181232	Gray	✗			NW 70	68.4	80	200/390	44.0	25
EW-PRF 95	83181234	Gray	✗			NW 95	89.4	106.1	265/500	80.0	10

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

Material properties



mod. polyamide PA 12



High angle consistency>400 N
>720 N50 x 50 mm
100 x 100 mm According to IEC EN 61386
According to IEC EN 61386 M25/P21
M25/P21 Testing at 23 °C
Testing at 23 °C



Flexural fatigue strength>400000 ~According to IEC EN 61386 M25/P21 Testing at -45 °C



Impact strength4 According to IEC EN 61386 M25/P21 Testing at -25 °C



System tear-out strength>340 NAccording to IEC EN 61386 M25/P21 Testing at 23 °C
Fitting M-PRO



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Thermal properties



Temperature / temperature range -40 °C – 105 °C / short term: 150 °C

Fire properties



Fire classification acc. to UL94: V2 self-extinguishing

Chemical resistances



Resistant to: Alcohol
Greases
Fuels
Lyes
Mineral oils
Weak acids

Technical information



Halogen-free



UV-resistant acc. to ISO 4892-2



Interior



exterior

Approvals and operating permits



ROBI approval



cURus approval



ECOLAB approval

Classification



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



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General information



Made in Germany