



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/P0	0783181252	Black	~	M10	PG07	NW 7	8.5	11.5	21/46	2.0	50
EW-PRF M12/PC	0983181254	Black	√	M12	PG09	NW 10	9.9	13	22/51	2.5	50
EW-PRF M16/P1	1 83181256	Black	√	M16	PG11	NW 12	12.1	15.7	28/68	3.6	50
EW-PRF M20/P	1683181258	Black	√	M20	PG16	NW 17	15.6	21.1	38/95	5.5	50
EW-PRF M20/ P16S	83181260	Black	√	M20	PG16	NW 17	16.6	20.7	35/90	5.6	50
EW-PRF M25/P	2183181262	Black	√	M25	PG21	NW 23	21.8	28.3	49/109	9.0	50
ew-prf M25/ P21S	83181462	Black	×	M25	PG21	NW 23	23.1	28.3	44/104	9.5	50
EW-PRF M32/P	2983181264	Black	√	M32	PG29	NW 29	27.8	34.6	67/142	12.0	25
EW-PRF M32/ P29S	83181464	Black	√	M32	PG29	NW 29	28.5	34.5	62/132	14.0	25
EW-PRF M40/ P36	83181266	Black	√	M40	PG36	NW 36	35.5	42.5	81/191	17.0	25
EW-PRF M50/ P48	83181268	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 70	83181272	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/pc	1783181212	Gray	×	M10	PG07	NW 7	8.5	11.5	21/46	2.1	50
ew-prf M12/p0	983181214	Gray	×	M12	PG09	NW 10	9.9	13	22/51	2.5	50
ew-prf M16/P1	1 83181216	Gray	×	M16	PG11	NW 12	12.1	15.7	28/68	3.6	50
ew-prf M20/p1	683181218	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/P2	21 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/P2	2983181224	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



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Impact strength4 According to IEC EN 61386 M25/P21 Testing at -25 $^{\circ}\mathrm{C}$



System tear-out strength>340 NAccording to IEC EN 61386 M25/P21 Testing at 23 $^{\circ}\mathrm{C}$ Fitting M-PR0





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Thermal properties



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

Fire properties



Fire classificationacc. 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

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