



Type EW-PRT



Product information

Experience the innovation of EW-PRT cable protection conduits, specially designed for demanding cable protection. Made from innovative polyamide 12, they offer outstanding UV protection and exceptional resistance to mechanical impact. Their excellent fire protection properties meet the highest requirements in the rail transportation sector, performing reliably even under extreme conditions down to -50°C. Ideal for use in environments that require robust and secure solutions.

Information, conformities and approvals



Article	Order No.	Color	metric	PG	NW	A Ø mm	B Ø mm	Stat./Dyn. Radius mm	Weight kg/100m	PU m
EW-PRT 06 1)	83181850	Black				6.4	9.8	20/68	1.5	50
EW-PRT M10/P07	83181852	Black	M10	PG07	NW 7	8.5	11.5	22/75	2.8	50
EW-PRT M12/P09	83181854	Black	M12	PG09	NW 10	9.8	12.4	26/85	3.0	50
EW-PRT M16/P11	83181856	Black	M16	PG11	NW 12	12	15.7	38/105	3.8	50
EW-PRT M20/P16	83181858	Black	M20	PG16	NW 17	15.7	21.1	52/185	6.6	50
EW-PRT M25/P21	83181862	Black	M25	PG21	NW 23	22.4	28.3	64/235	9.9	50
EW-PRT M32/P29	83181866	Black	M32	PG29	NW 29	27.5	34.5	77/285	13.5	25
EW-PRT M40/P36	83181868	Black	M40	PG36	NW 36	36	42.5	91/315	17.0	25
EW-PRT M50/P48	83181870	Black	M50	PG48	NW 48	46.2	53.9	112/355	22.5	25

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

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Material properties



mod. polyamide PA 12



High angle consistency

>300 N 50 x 50 mm According to IEC EN 61386 M25/P21 Testing at 23 °C
>450 N 100 x 100 mm According to IEC EN 61386 M25/P21 Testing at 23 °C



Flexural fatigue strength

>1000000 Cycles According to IEC EN 61386 M25/P21 Testing at -45 °C



Impact strength

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



System tear-out strength

>230 N According to IEC EN 61386 M25/P21 Testing at 23 °C Fitting M-PRO

Thermal properties



Temperature / temperature range

-50 °C - 120 °C / short term: 140 °C

Fire properties



Fire classification

acc. to UL94: V2 self-extinguishing



Fire properties as per EN 45545-2

C.I.T. R22 / R23 HL3 :0.25 NF X 70-100-1/-2 600°C (1112 °F)
Ds (max.) R22 / R23 HL3 :180 ISO 5659-2 (25 KW/m²)
LOI R22 / R23 HL2 :≥28 % <32 % ISO 4589-2



Fire properties as per NFPA

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

Chemical resistances



Resistant to:

Alcohol
Greases
Fuels
Lyes
Mineral oils
Weak acids



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Technical information



Halogen-free



UV-resistant acc. to ISO 4892-2

Approvals and operating permits



EU railway approval

General information



Made in Germany