



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

Material properties



mod. polyamide PA 12 II



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Material properties



High angle consistency >300 N >450 N 50 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 >1000000 ~ 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

Technical information



Halogen-free



UV-resistant acc. to ISO 4892-2

Approvals and operating permits



EU railway approval



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General information



Made in Germany
