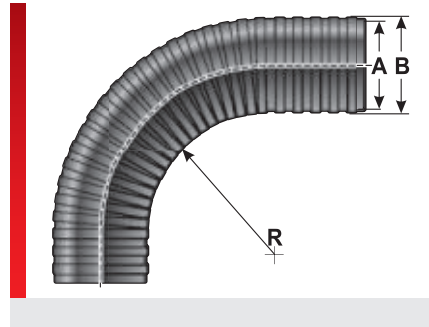




Cable protection conduit

Type EW-PAE



PRODUCT INFORMATION

The EW-PAE cable protection conduits are made of specially modified polyamide 12. The material is halogen, phosphor and cadmium-free.

The EW-PAE cable protection conduits are characterised by excellent flexibility, flexural fatigue strength and good crush resistance.

For extremely dynamic applications involving medium mechanical loads.

Applications:

- Robotics
- Handling systems
- In cable drag chains

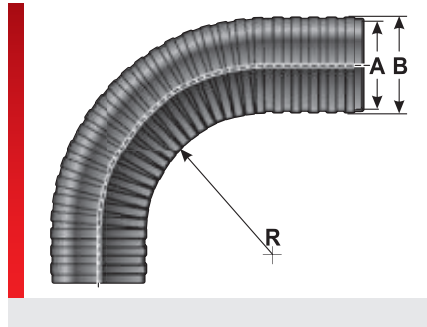
SPECIFICATIONS

	-40 – 120 °C transient/short term 150 °C
	Mod. polyamide PA 12
	HB
	In conformity with IEC EN 61386 : > 500 N
	
	
	
	

Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
Standard corrugation								
EW-PAE-06	83181650	Black	6.50	9.80	15.00	40.00	1.8	50
EW-PAE-M10/P7	83181652	Black	8.50	11.50	20.00	45.00	2.1	50
EW-PAE-M12/P9	83181654	Black	9.60	12.80	21.00	51.00	2.6	50
EW-PAE-M16/P11	83181656	Black	11.90	15.60	28.00	68.00	3.6	50
EW-PAE-M20/P16	83181658	Black	15.50	20.80	36.00	70.00	5.3	50
EW-PAE-M25/P21	83181660	Black	21.80	28.30	49.00	109.00	9.0	50
EW-PAE-M32/P29	83181662	Black	27.80	34.40	67.00	142.00	12.0	25
EW-PAE-M40/P36	83181664	Black	34.90	42.00	81.00	191.00	16.0	25
EW-PAE-M50/P48	83181666	Black	47.00	54.00	102.00	237.00	22.0	25
EW-PAE-56 Jumbo	83181678	Black	56.00	67.30	110.00	310.00	40.0	25
EW-PAE-70 Jumbo	83181680	Black	67.40	79.00	200.00	390.00	56.0	25
EW-PAE-95 Jumbo	83181682	Black	89.70	105.00	265.00	500.00	80.0	10
EW-PAE-06 ¹⁾	83181610	Grey	6.50	9.80	15.00	40.00	1.8	50
EW-PAE-M10/P7	83181612	Grey	8.50	11.50	20.00	45.00	2.1	50
EW-PAE-M12/P9	83181614	Grey	9.60	12.80	21.00	51.00	2.6	50
EW-PAE-M16/P11	83181616	Grey	11.90	15.60	28.00	68.00	3.6	50
EW-PAE-M20/P16	83181618	Grey	15.50	20.80	36.00	70.00	5.3	50
EW-PAE-M25/P21	83181620	Grey	21.80	28.30	49.00	109.00	9.0	50
EW-PAE-M32/P29	83181622	Grey	27.80	34.40	67.00	142.00	12.0	25
EW-PAE-M40/P36	83181624	Grey	34.90	42.00	81.00	191.00	16.0	25
EW-PAE-M50/P48	83181626	Grey	47.00	54.00	102.00	237.00	22.0	25
EW-PAE-56 Jumbo ²⁾	83181638	Grey	56.00	67.30	110.00	310.00	35.0	25
EW-PAE-70 Jumbo ³⁾	83181640	Grey	67.40	79.30	200.00	390.00	56.0	25

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Type EWX-PAE (high corrugation)



PRODUCT INFORMATION

The EWX-PAE cable protection conduits are made of specially modified polyamide 12. The material is halogen, phosphor and cadmium-free.

With its excellent flexural fatigue strength, this product is ideal for robot technology and in the area of handling systems. For extremely dynamic applications involving medium to high mechanical loads.

The EWX-PAE cable protection conduits have a higher corrugation and feature the following advantages:

- Very good flexibility
- Excellent flexural fatigue strength
- Less wear
- Good crush resistance

SPECIFICATIONS

	-40 – 120 °C transient/short term 150 °C
	Mod. polyamide PA 12
	HB
	In conformity with IEC EN 61386 : > 1200 N
	HF
	

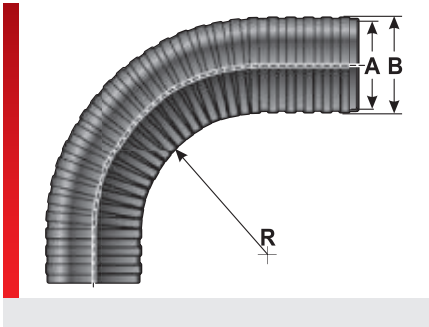
Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
High corrugation								
EWX-PAE M25/P21	83182058	Black	18.20	28.10	49.00	104.00	13.0	50
EWX-PAE-M32/P29	83182060	Black	22.80	34.10	57.00	117.00	22.0	25
EWX-PAE M40/P36	83182062	Black	28.70	42.40	71.00	146.00	28.0	25
EWX-PAE M50/P48	83182064	Black	36.70	53.50	87.00	167.00	36.0	25
EWX-PAE 56 Jumbo	83182078	Black	52.20	67.70	95.00	220.00	40.0	25
EWX-PAE 70 Jumbo	83182080	Black	64.00	80.30	115.00	235.00	56.0	25
EWX-PAE 95 Jumbo	83182082	Black	88.20	105.50	220.00	450.00	92.5	10
EWX-PAE M25/P21	83182018	Grey	18.20	28.10	49.00	104.00	13.0	50
EWX-PAE-M32/P29	83182020	Grey	22.80	34.10	57.00	117.00	22.0	25
EWX-PAE M40/P36 ¹⁾	83182022	Grey	28.70	42.40	71.00	146.00	28.0	25
EWX-PAE M50/P48 ²⁾	83182024	Grey	36.70	53.50	87.00	167.00	36.0	25
EWX-PAE 70 Jumbo ³⁾	83182040	Grey	64.00	80.30	115.00	235.00	56.0	25

¹⁾ Min. order quantity 200m

²⁾ Min. order quantity 125m

³⁾ Min. order quantity 150m

Type EWX-PAE-LS (high corrugation)



PRODUCT INFORMATION

The EWX-PAE-LS cable protection conduits are made of specially modified polyamide 12. The material is halogen, phosphor and cadmium-free. With its excellent flexural fatigue strength, this product is ideal for robot technology and in the area of handling systems. For installation of pre-assembled cables, retrofitting or repair of cables. For dynamic applications

involving light to medium mechanical loads. The EWX-PAE-LS cable protection conduits have a higher corrugation and feature the following advantages:

- Very good flexibility
- Excellent flexural fatigue strength
- Less wear
- Good crush resistance
- Subsequent installation possible

SPECIFICATIONS

 -40 – 120 °C transient/short term 150 °C

 Mod. polyamide PA 12

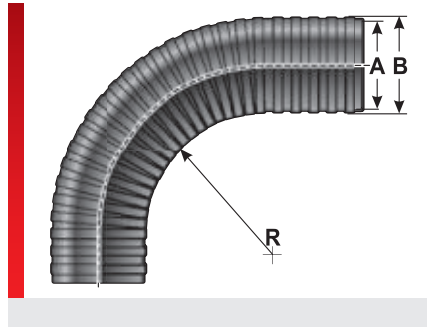
 HB

Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
High corrugation								
EWX-PAE-LS M20/P16	83182256	Black	13.30	21.10	36.00	77.00	6.0	50
EWX-PAE-LS M25/P21	83182258	Black	19.20	28.20	49.00	104.00	11.0	50
EWX-PAE-LS M32/P29	83182260	Black	23.10	34.50	57.00	117.00	14.0	25
EWX-PAE-LS M40/P36	83182262	Black	28.50	42.20	71.00	146.00	18.2	25
EWX-PAE-LS M50/P48	83182264	Black	36.50	53.60	87.00	167.00	24.0	25
EWX-PAE-LS 56 Jumbo ¹⁾	83182278	Black	51.70	67.70	95.00	220.00	45.0	25
EWX-PAE-LS 70 Jumbo	83182280	Black	64.30	80.30	115.00	235.00	55.0	25

¹⁾ Min. order quantity 100 m

Type EW-HY



PRODUCT INFORMATION

The EW-HY cable protection conduits are made of specially modified thermoplastic elastomer. The material is halogen, phosphor and cadmium-free and is also heat and hydrolysis stabilised.

The EW-HY cable protection conduits are characterised by outstanding flexibility, flexural fatigue strength and good crush resistance.

This product is ideal for use in handling systems and robot technology, because of its excellent flexural fatigue strength. For dynamic applications involving low to medium mechanical loads.

Applications:

- Robotics
- Handling systems

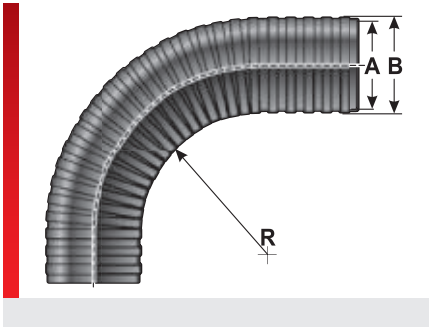
SPECIFICATIONS

	-45 – 160 °C transient/short term 180 °C
	Thermoplastic elastomer
	HB
	In conformity with IEC EN 61386 : > 500 N
	RoHS
	HF
	

Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
Standard corrugation								
EW-HY 06	83121048	Black	6.40	9.90	18.00	40.00	2.4	50
EW-HY M12/P9	83121050	Black	9.40	12.80	21.00	51.00	3.5	50
EW-HY M16/P11	83121052	Black	12.10	15.60	28.00	68.00	4.0	50
EW-HY M20/P16S	83121054	Black	16.70	20.70	38.00	95.00	7.6	50
EW-HY M25/P21	83121056	Black	21.80	28.00	49.00	109.00	10.0	50
EW-HY M32/P29	83121058	Black	27.70	34.20	67.00	142.00	18.0	25
EW-HY M40/P36	83121060	Black	35.20	42.20	81.00	191.00	22.0	25
EW-HY M50/P48	83121062	Black	47.30	53.40	102.00	237.00	28.0	25
EW-HY 70 Jumbo	83121066	Black	66.20	79.50	140.00	330.00	50.0	25
EW-HY 95 Jumbo	83121070	Black	90.00	105.00	150.00	400.00	90.0	10
EW-HY M12/P9 ¹⁾	83121010	Grey	9.40	12.80	21.00	51.00	2.8	50
EW-HY M16/P11	83121012	Grey	12.10	15.60	28.00	68.00	4.0	50
EW-HY M25/P21	83121016	Grey	21.80	28.00	49.00	109.00	13.0	50
EW-HY M32/P29	83121018	Grey	27.70	34.20	67.00	142.00	17.0	25
EW-HY M40/P36	83121020	Grey	35.20	42.20	81.00	191.00	21.0	25
EW-HY M50/P48	83121022	Grey	47.30	53.40	102.00	237.00	31.0	25
EW-HY 70 Jumbo	83121026	Grey	66.20	79.50	140.00	330.00	50.0	25
EW-HY 95 Jumbo	83121030	Grey	90.00	105.00	150.00	400.00	90.0	10
Narrow corrugation								
EW-HY M20/P16S	83121014	Grey	16.70	20.70	38.00	95.00	6.8	50

¹⁾ Min. order quantity 2100m

Type EWX-HY (high corrugation)



PRODUCT INFORMATION

The EWX-HY cable protection conduits are made of specially modified thermoplastic elastomer. The material is halogen, phosphor and cadmium-free and is also heat and hydrolysis stabilised. The EWX-HY cable protection conduits are characterised by outstanding flexibility, flexural fatigue strength and good crush resistance.

With its excellent flexural fatigue strength, this product is ideal for use in handling systems and robot technology. For dynamic applications involving low to medium mechanical loads.

SPECIFICATIONS

 -45 – 150 °C transient/short term 180 °C

 Thermoplastic elastomer

 HB

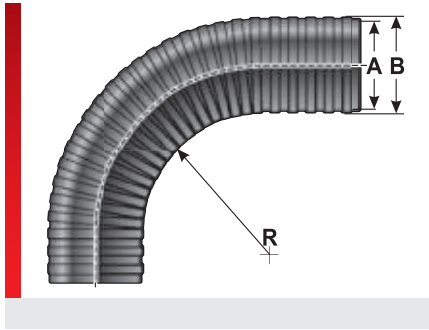
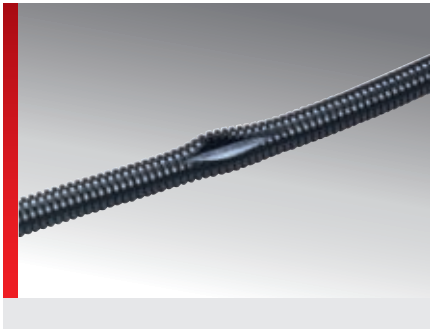
 In conformity with IEC EN 61386
: > 900 N

 **HF** 

Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
High corrugation								
EWX-HY M25/P21	83121258	Black	18.60	27.80	49.00	104.00	13.0	50
EWX-HY M32/P29	83121260	Black	23.00	34.20	57.00	117.00	22.0	25
EWX-HY M40/P36	83121262	Black	28.90	42.30	71.00	146.00	28.0	25
EWX-HY M50/P48	83121264	Black	36.80	53.70	87.00	167.00	36.0	25
EWX-HY 56	83121278	Black	53.00	67.80	95.00	220.00	36.0	25
EWX-HY 70	83121280	Black	64.40	80.50	140.00	330.00	63.0	25
EWX-HY 95 ¹⁾	83121282	Black	91.00	105.50	150.00	400.00	89.0	10

¹⁾ Min. order quantity 40m

Type EWX-HY-LS (high corrugation)



PRODUCT INFORMATION

The EWX-HY-LS cable protection conduits are made of specially modified thermoplastic elastomer. The material is halogen, phosphor and cadmium-free.

With its excellent flexural fatigue strength, this product is ideal for robot technology and in the area of handling systems. For installation of pre-assembled cables, retrofitting or repair of cables.

For dynamic applications involving light to medium mechanical loads.

The EWX-HY-LS cable protection conduits have a higher corrugation and feature the following advantages:

- Very good flexibility
- Excellent flexural fatigue strength
- Less wear
- Good crush resistance
- Subsequent installation possible

SPECIFICATIONS

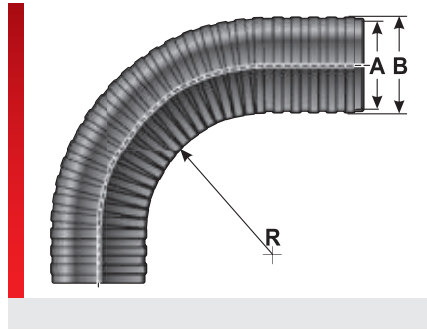
	-45 – 160 °C transient/short term 180 °C
	Thermoplastic elastomer
	HB
	HF
	

Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
High corrugation								
EWX-HY-LS M25/P21	83122258	Black	19.80	28.10	49.00	104.00	11.0	50
EWX-HY-LS M32/P29	83122260	Black	24.10	34.50	57.00	117.00	17.5	25
EWX-HY-LS M40/P36	83122262	Black	29.70	42.10	71.00	146.00	22.0	25
EWX-HY-LS M50/P48	83122264	Black	38.00	54.10	87.00	167.00	30.4	25
EWX-HY-LS 56 ¹⁾	83122278	Black	52.00	68.00	95.00	220.00	36.0	25
EWX-HY-LS 70 ²⁾	83122282	Black	64.00	80.00	115.00	235.00	63.0	25

¹⁾ Min. order quantity 100 m

²⁾ Min. order quantity 75m

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 robotics and the aerospace industry as well as in rail transport systems.

They feature the following advantages:

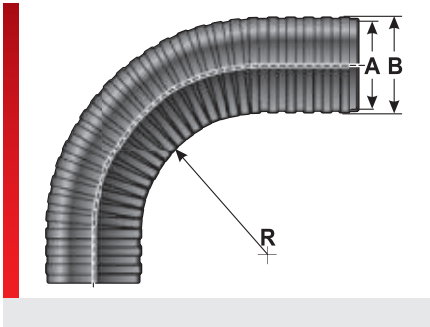
- High flexibility
- Excellent impact strength
- Excellent self-extinguishing properties
- Very low levels of smoke gas

SPECIFICATIONS

	-40 – 105 °C transient/short term 150 °C
	Mod. polyamide PA 12
	V2 self-extinguishing
	In conformity with IEC EN 61386 : > 1100 N
	
	
	
	
	

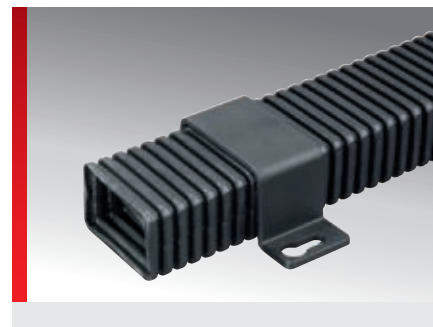
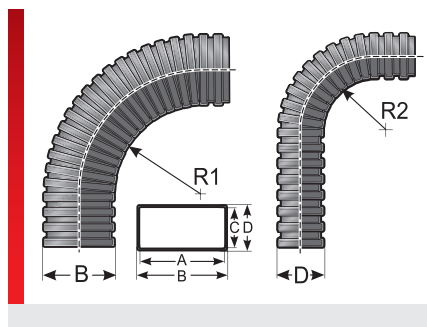
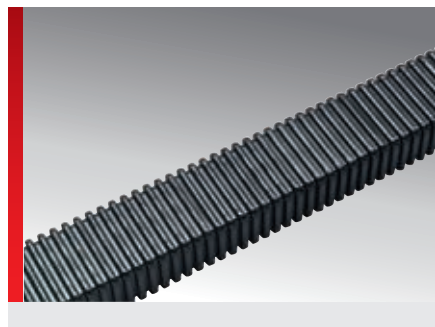
Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
Standard corrugation								
EW-PRF-M10/P7	83181252	Black	8.50	11.60	21.00	46.00	2.1	50
EW-PRF-M12/P9	83181254	Black	9.80	13.00	22.00	51.00	2.8	50
EW-PRF-M16/P11	83181256	Black	11.80	15.90	28.00	68.00	3.8	50
EW-PRF-M20/P16	83181258	Black	15.60	21.10	38.00	95.00	5.8	50
EW-PRF-M25/P21	83181262	Black	21.60	28.50	49.00	109.00	10.0	50
EW-PRF-M32/P29	83181264	Black	28.00	34.50	67.00	142.00	14.0	25
EW-PRF-M40/P36	83181266	Black	35.00	42.50	81.00	191.00	17.0	25
EW-PRF-M50/P48	83181268	Black	47.00	54.30	102.00	237.00	23.0	25
EW-PRF-70 Jumbo	83181272	Black	68.40	80.00	200.00	390.00	48.0	25
EW-PRF-95 Jumbo ²⁾	83181274	Black	89.40	106.10	265.00	500.00	81.0	10
EW-PRF-M10/P7	83181212	Grey	8.50	11.60	21.00	46.00	2.1	50
EW-PRF-M12/P9 ³⁾	83181214	Grey	9.80	13.00	22.00	51.00	2.8	50
EW-PRF-M16/P11 ⁴⁾	83181216	Grey	11.80	15.90	28.00	68.00	3.8	50
EW-PRF-M20/P16 ⁵⁾	83181218	Grey	15.60	21.10	38.00	95.00	5.8	50
EW-PRF-M25/P21	83181222	Grey	21.60	28.50	49.00	109.00	10.0	50
EW-PRF-M32/P29	83181224	Grey	28.00	34.50	67.00	142.00	14.0	25
EW-PRF-M40/P36 ⁸⁾	83181226	Grey	35.00	42.50	81.00	191.00	17.0	25
EW-PRF-M50/P48 ⁹⁾	83181228	Grey	47.00	54.30	102.00	237.00	23.0	25
EW-PRF-70 Jumbo ¹⁰⁾	83181232	Grey	68.40	80.00	200.00	390.00	48.0	25
EW-PRF-95 Jumbo ²⁾	83181234	Grey	89.40	106.10	265.00	500.00	81.0	10
Narrow corrugation								
EW-PRF-M20/P16S	83181260	Black	16.70	21.10	35.00	90.00	6.6	50
EW-PRF-M25/P21S ¹⁾	83181462	Black	23.00	28.30	44.00	104.00	10.0	50

Type EW-PRF (Continued...)



Type	Order No.	Colour	A Ø mm	B Ø mm	R stat. mm	R dyn. mm	Weight kg/100m	Pack m
EW-PRF-M32/P29S	83181464	Black	28.50	34.30	62.00	132.00	14.0	25
EW-PRF-M20/P16S ⁶⁾	83181220	Grey	16.70	21.10	35.00	90.00	6.6	50
EW-PRF-M25/P21S ¹⁾	83181422	Grey	23.00	28.30	44.00	104.00	10.0	50
EW-PRF-M32/P29S ⁷⁾	83181424	Grey	28.50	34.30	62.00	132.00	14.0	25
¹⁾ Min. order quantity 500m								
²⁾ Min. order quantity 40m								
³⁾ Min. order quantity 2100m								
⁴⁾ Min. order quantity 1800m								
⁵⁾ Min. order quantity 900m								
⁶⁾ Min. order quantity 1000m								
⁷⁾ Min. order quantity 300m								
⁸⁾ Min. order quantity 200m								
⁹⁾ Min. order quantity 150m								
¹⁰⁾ Min. order quantity 75m								

Type EF (rectangular conduit)



PRODUCT INFORMATION

The rectangular Energoflex EF cable protection conduits are made of specially modified thermoplastic elastomer. The material is halogen, phosphor and cadmium-free. The Energoflex EW cable protection conduits are characterised by excellent flexibility and good flexural fatigue strength. With its rectangular shape, the EF conduit can be used as a cost-effective alternative to cable drag chains.

For dynamic applications involving light to medium mechanical loads in mechanical and plant engineering.

Advantages of the Energoflex include:

- Little relative movement of the lines
- Low-wear interior
- Simultaneous traversing in multiple axes possible
- Higher stability compared to a conduit

System affiliation:

- Holder EF/B 26/42
- Flange connection FL-EF 26042

SPECIFICATIONS

	-45 – 160 °C transient/short term 180 °C
	Thermoplastic elastomer
	HB
	In conformity with IEC EN 61386 : 1000 N
	
	
	

Type	Order No.	Colour	A mm	B mm	C mm	D mm	R1 stat./dyn. mm	R2 stat./dyn. mm	Weight kg/100m	Pack m
EF 26042	83361012	Black	42.00	50.00	26.00	34.00	110.0 / 320.0	60.0 / 120.0	23.0	3