

PMA® conduits

Overview

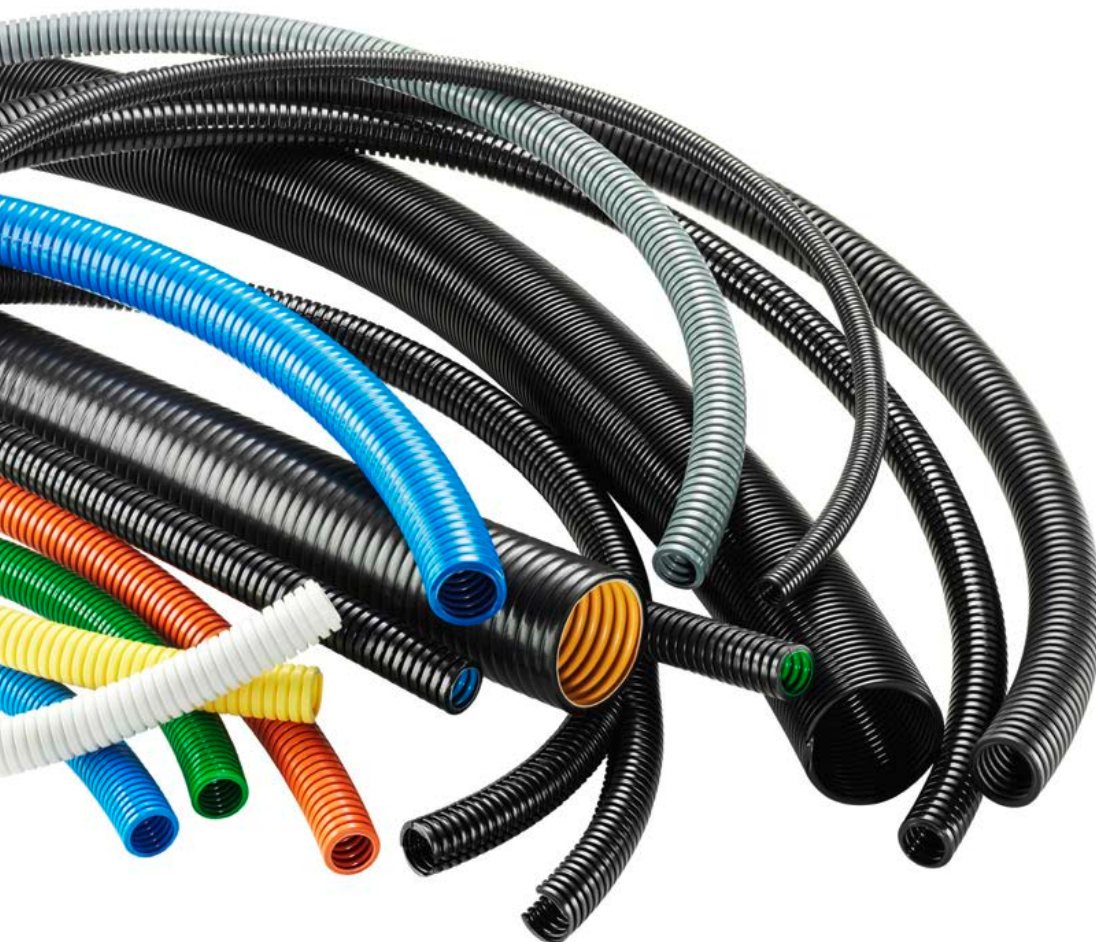
Conduits to protect cables. We offer many different conduit types for diverse applications with various technical requirements.

The product groups:

- PMAFLEX Pro
- PMAFLEX
- PMAFLEX PLUS
- PMAFLEX Multilayer
- PMA Divisible System
- PMA Smart Line
- PMA overbraided
- PMA overextruded

Many conduits are specially approved, e.g. CSA, UL Recognition, DNV, Lloyds, Bureau Veritas etc. All conduits are REACH and RoHS compliant.

Conduit sizes range from 6mm to 125mm Ø, from lightweight to heavyweight, and from pliable to highly flexible. PMA also offers slit and divisible conduits. Standard colours are black and grey.



PMA® CONDUITS

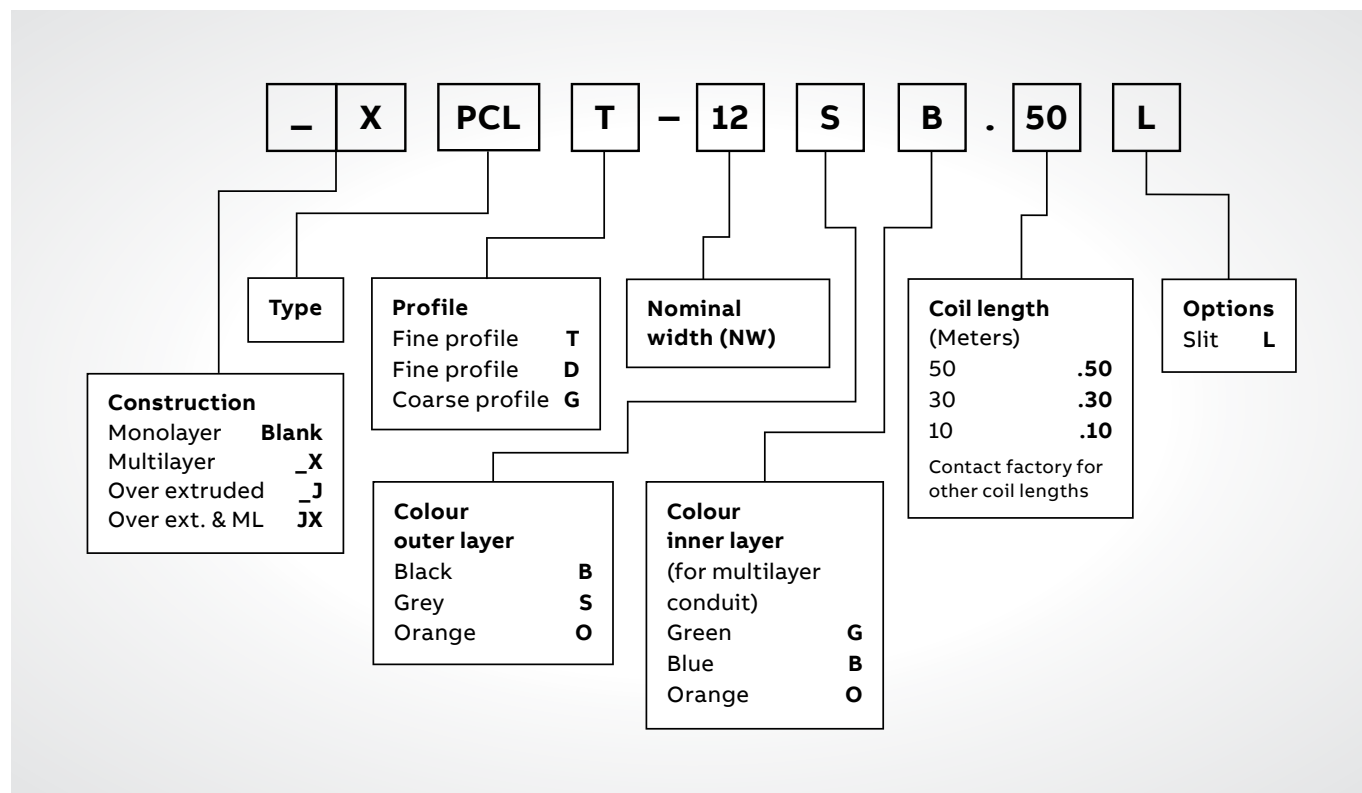
PMA offers a large range of very different mono- and multilayer conduit types which fulfill high technical demands to protect humans and cables.



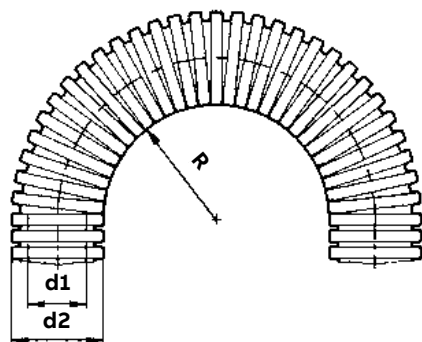
PMA conduits

Part number codes

For part number explanation only, not to be used as a configuration tool.



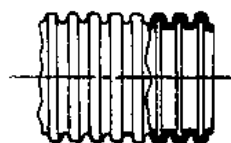
Radius



Stat. radius = Lowest recommended bending radius for static (fixed) installation.

Dyn. radius = Lowest recommended bending radius for dynamic (flexible) installation.

Profile



Fine profile T
Tight bending radius.



Coarse profile G
High pull-out strength.

Type XPCS conduit



XPCSL Index

[illegible]

PMA conduit for Rail/Infrastructure

Type XPCS/OG & XPCSL conduit



Type XPCS/OG / PMAFLEX Multilayer - Very flexible, heavy-duty

	Order no. (orange/green)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	XPCST-07OG.100	7	6.9	10.0	15/40	100
	XPCST-10OG.50	10	9.8	12.8	20/50	50
	XPCST-12OG.50	12	12.1	15.6	25/65	50
	XPCST-17OG.50	17	16.5	21.1	35/85	50
	XPCSG-17OG.50	17	15.8	21.1	35/85	50
	XPCSG-23OG.50	23	21.9	28.4	45/110	50
	XPCSG-29OG.50	29	27.7	34.5	55/135	50
	XPCSG-36OG.30	36	36.6	42.4	65/170	30
	XPCSG-48OG.30	48	47.5	54.5	85/220	30

Static and dynamic external applications

Excellent mechanical characteristics, also under extreme climatic conditions (low temperature and low humidity)

Very Good flexibility / Self-extinguishing

High fire safety specification

XPCS/OG Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
High-grade, specially formulated PA12/PA6	-50°C to +95°C	Orange/Green
	Short-term to: +150°C	
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Self-extinguishing	High (orange)



Type XPCSL / PMAFLEX Multilayer - Very flexible, medium-duty

	Order no. (black/green)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	XPCSLT-07BG.100	7	7.0	10.0	15/35	100
	XPCSLT-10BG.50	10	9.9	12.8	20/45	50
	XPCSLT-12BG.50	12	12.3	15.6	25/55	50
	XPCSLT-17BG.50	17	16.7	21.1	30/75	50
	XPCSLT-29BG.50	29	28.8	34.5	50/120	50
	XPCSLG-17BG.50	17	15.8	21.1	35/75	50
	XPCSLG-23BG.50	23	22.1	28.4	45/100	50
	XPCSLG-29BG.50	29	27.9	34.5	55/120	50
	XPCSLG-36BG.30	36	36.8	42.4	65/150	30
	XPCSLG-48BG.30	48	47.7	54.5	85/190	30

Static and dynamic external applications on railway vehicles

On the roof: PA12 outer layer has excellent UV resistance characteristics

On inter-carriage connections: Excellent resistance to fatigue when exposed to continuous bending

On bogies and undercarriage: Excellent resistance to impact at low temperatures

Excellent mechanical characteristics, also under extreme climatic conditions (low temperature and low humidity)

Very Good flexibility

Self-extinguishing

High fire safety specification

XPCSL Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
High-grade, specially formulated PA12/PA6	-50°C to +95°C	Black/Green
	Short-term to: +150°C	
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Self-extinguishing	Very high (black)

PMA conduit for Rail/Infrastructure

Type XVCSF conduit

Type XVCSF / PMAFLEX Multilayer - Flexible, heavy-duty



	Order no. (black/blue)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	XVCSFT-07BB.50	7	6.7	10.0	15	50
	XVCSFT-10BB.50	10	9.6	12.8	20	50
	XVCSFT-12BB.50	12	11.9	15.6	25	50
	XVCSFG-17BB.50	17	15.6	21.1	40	50
	XVCSFG-23BB.50	23	21.5	28.4	50	50
	XVCSFG-29BB.50	29	27.7	34.5	60	50
	XVCSFG-36BB.30	36	35.9	42.4	75	30
	XVCSFG-48BB.30	48	46.8	54.5	90	30

Multilayer conduit for external rail applications
Rail static external applications such as under carriage, bogie, etc.
High compression and impact strengths at low temperature and low humidity
Good flexibility and very good UV resistance and weathering characteristics
Compatible with PMAFIX Pro, PMAFIX, PMA Smart Line and accessories
EN 45545-2 HL2 (R22 & R23)

XVCSF Index	
min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Outer layer: Specially formulated polyamide 6	-50°C to +105°C	Black/Blue
Inner layer: Specially modified polyamide 6	Short-term to: +160°C	
Certification	Fire performance	UV Resistance
Free from halogens and cadmium	Self-extinguishing	Very high (black)
RoHS and REACH compliant		

PMA conduit for Rail/Infrastructure

Type VAM & VAML conduit

Type VAM / PMAFLEX - Flexible, heavy-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	VAMT-10B.50	VAMT-10S.50	10	9.6	12.8	25	50
	VAMT-12B.50	VAMT-12S.50	12	12.0	15.6	30	50
	VAMG-17B.50	VAMG-17S.50	17	15.5	21.1	45	50
	VAMG-23B.50	VAMG-23S.50	23	21.6	28.4	60	50
	VAMG-29B.50	VAMG-29S.50	29	27.6	34.5	70	50
	VAMG-36B.30	VAMG-36S.30	36	35.8	42.4	85	30
	VAMG-48B.30	VAMG-48S.30	48	46.6	54.5	110	30
For high fire and passenger safety requirements in interior applications such as passenger areas or public buildings HL3 acc. to EN 45545-2 NFPA 130 compliant High impact and compression strength High stiffness							
VAM Index							
min.	max.						
Ductility							
Fatigue reversed bending							
Compression resistance							
Low temperature performance							
Weathering resistance							
			Materials		Temperature range		Colour
			Specially formulated polyamide 6		-40°C to +105°C		Black/Grey
			Certification		Short-term to: +160°C		
			Free from halogens, REACH compliant		Fire performance		UV Resistance
			and RoHS compliant		Minimal development of smoke and gases		High (black)

Type VAML / PMAFLEX - Flexible, medium-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	VAMLT-10B.50	VAMLT-10S.50	10	9.7	12.8	20	50
	VAMLT-12B.50	VAMLT-12S.50	12	12.1	15.6	25	50
	VAMLG-17B.50	VAMLG-17S.50	17	15.8	21.1	40	50
	VAMLG-23B.50	VAMLG-23S.50	23	21.9	28.4	50	50
	VAMLG-29B.50	VAMLG-29S.50	29	27.9	34.5	60	50
	VAMLG-36B.30	VAMLG-36S.30	36	36.2	42.4	75	30
	VAMLG-48B.30	VAMLG-48S.30	48	47.0	54.5	90	30
	VAMLG-56B.30	VAMLG-56S.30	56	56.9	67.5	120	30
	VAMLG-70B.10	VAMLG-70S.10	70	68.0	79.6	140	10
	VAMLG-95B.10	VAMLG-95S.10	95	92.5	107.0	190	10
	VAMLG-125B.06	VAMLG-125S.06	125	126.9	146.0	260	6
For high fire and passenger safety requirements in interior applications such as passenger areas or public buildings HL3 acc. to EN 45545-2 NFPA 130 compliant Good flexibility. Good impact strength							
VAML Index							
min.	max.						
Ductility							
Fatigue reversed bending							
Compression resistance							
Low temperature performance							
Weathering resistance							
			Materials		Temperature range		Colour
			Specially formulated polyamide 6		-40°C to +105°C		Black/Grey
			Certification		Short-term to: +160°C		
			Free from halogens, REACH compliant		Fire performance		UV Resistance
			and RoHS compliant		Minimal development of smoke and gases		High (black)

PMA conduit for Rail/Infrastructure

Type PLR conduit

Type PLR / PMAFLEX - Flexible, medium-wall



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	PLRT-07B.50	PLRT-07S.50	07	6.8	10.0	15	50
	PLRT-10B.50	PLRT-10S.50	10	9.8	12.8	20	50
	PLRT-12B.50	PLRT-12S.50	12	12.2	15.6	25	50
	PLRG-17B.50	PLRG-17S.50	17	15.9	21.1	40	50
	PLRG-23B.50	PLRG-23S.50	23	22.0	28.4	50	50
	PLRG-29B.50	PLRG-29S.50	29	28.0	34.5	60	50
	PLRG-36B.30	PLRG-36S.30	36	36.3	42.4	75	30
	PLRG-48B.30	PLRG-48S.30	48	47.2	54.5	90	30

In light rail rolling stock applications e.g. Tram, Metro, Monorail
HL2 acc. to EN 45545-2
Good pressure resistance
Very good fire safety characteristics

PLR Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Specially modified polyamide 6	-40°C to +105°C	Black/Grey
	Short-term to: +160°C	
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Self-extinguishing / Very good	High (black)

PMA conduit for Rail/Infrastructure

Type XVCS1H & XVCS2H conduit

Type XVCS1H / PMAFLEX Multilayer - Flexible, heavy-duty



	Order no. (black/green)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	XVCS1H-10BG.50	10	9.5	12.8	20	50
	XVCS1H-12BG.50	12	11.8	15.6	25	50
	XVCS1H-17BG.50	17	15.5	21.1	40	50
	XVCS1H-23BG.50	23	21.7	28.4	50	50
	XVCS1H-29BG.50	29	27.5	34.5	60	50
	XVCS1H-36BG.30	36	35.8	42.4	75	30
	XVCS1H-48BG.30	48	47.1	54.5	90	30

For track side applications and other exterior static applications
Easy layouting through: High conduit ductility and formability / Low friction inner layer facilitates cable insertion
Excellent impact characteristics at low temperatures

XVCS1H Index

min.	max.	Materials	Temperature range	Colour
Ductility		Outer layer: Specially formulated polyamide 6	-50°C to +90°C	Black/Green
Fatigue reversed bending		Intermediate layer: Specially bonding compound	Short-term to: +120°C	
Compression resistance		Inner layer: Specially modified polyolefin		
Low temperature performance		Certification	Atmospheric corrosion resistance	UV Resistance
Weathering resistance		Free from halogens, REACH compliant and RoHS compliant	Very good	Very high (black)

Type XVCS2H / PMAFLEX Multilayer - Flexible, heavy-duty



	Order no. (black/green)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	XVCS2H-10BG.50	10	9.2	12.8	20	50
	XVCS2H-12BG.50	12	11.7	15.6	25	50
	XVCS2H-17BG.50	17	15.2	21.1	35	50
	XVCS2H-23BG.50	23	22.0	28.4	40	50
	XVCS2H-29BG.50	29	27.7	34.5	50	50
	XVCS2H-36BG.30	36	35.8	42.4	60	30
	XVCS2H-48BG.30	48	46.8	54.5	70	30

For track side applications and other exterior static applications with high UV exposure
Easy layouting through: High conduit ductility and formability / Low friction inner layer facilitates cable insertion
Excellent impact characteristics at low temperatures

XVCS2H Index

min.	max.	Materials	Temperature range	Colour
Ductility		Outer layer: Specially formulated polyamide 12	-50°C to +90°C	Black/Green
Fatigue reversed bending		Intermediate layer: Specially bonding compound	Short-term to: +120°C	
Compression resistance		Inner layer: Specially modified polyolefin		
Low temperature performance		Certification	Atmospheric corrosion resistance	UV Resistance
Weathering resistance		Free from halogens, REACH compliant and RoHS compliant	Excellent	Very high (black)

PMA conduit for Robotics/Automation

Type XR90 & XTPC conduit



Type XR90 / PMAFLEX Multilayer - Very flexible, medium-duty

	Order no. (black/red)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	XR90T-17BR.50	17	16.2	21.1	30/85	50
	XR90T-23BR.50	23	22.7	28.4	40/110	50
	XR90T-29BR.50	29	28.6	34.5	50/135	50
	XR90G-17BR.50	17	15.4	21.1	35/85	50
	XR90G-23BR.50	23	21.4	28.4	45/110	50
	XR90G-29BR.50	29	27.2	34.5	55/135	50
	XR90G-36BR.30	36	35.9	42.4	65/170	30
	XR90G-48BR.30	48	47.0	54.5	85/220	30
	XR90G-56BR.30	56	56.7	67.5	110/270	30
	XR90G-70BR.30	70	67.8	79.6	130/320	30
	XR90G-95BR.30	90	92.0	107.0	170/430	30

For dynamic conduit systems in robotics and automation industry
 With wear indication function
 High resistance to continuous bending, torsion, and elongation
 No abrupt conduit failure due to high tear propagation resistance
 High abrasion resistance
 Suitable for applications with a pullback system
 Long service life

XR90 Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Outer layer: Specially formulated polyamide 12	-40°C to +95°C	Black/Red
Intermediate layer: Specially formulated polyamide	Short-term to: +150°C	
Inner layer: Specially formulated polyamide 12		
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Self-extinguishing	High (black)

Type XTPC / PMAFLEX Multilayer- Highly flexible, medium-duty



	Order no. (black/orange)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	XTPCG-17BB.50	17	15.2	21.1	30/75	50
	XTPCG-23BB.50	23	21.2	28.4	40/100	50
	XTPCG-29BB.50	29	26.8	34.5	50/120	50
	XTPCG-36BB.50	36	35.5	42.4	60/150	30
	XTPCG-48BB.30	48	46.5	54.5	80/190	30
	XTPCG-56BB.30	56	56.2	67.5	105/235	30
	XTPCG-70BB.30	70	67.3	79.6	120/280	30

For dynamic conduit systems in robotics and automation industry
 For outdoor applications with good requirements to UV and weathering resistance
 With wear indication function. High resistance to continuous bending
 No abrupt conduit failure due to high tear propagation resistance
 Very high abrasion resistance. High resistance to torsion
 Suitable for tight bending-radii
 Long service life

XTPC Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Outer layer: Thermoplastic copolyester	-40°C to +105°C	Black/Blue
Inner layer: Thermoplastic copolyester	Short-term to: +150°C	
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Self-extinguishing	High (black)

PMA conduit for Robotics/Automation

Type PIS/PIH conduit

Type PIS/PIH / PMAFLEX - Highly flexible, medium- and heavy-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./dyn. radius (mm)	PU (m)
PIS/PIH	PIST-07B.50	PIST-07S.50	07	6.7	10.0	15/40	50
	PIST-10B.50	PIST-10S.50	10	9.7	12.8	20/50	50
	PIST-12B.50	PIST-12S.50	12	12.0	15.6	25/65	50
	PIST-17B.50	PIST-17S.50	17	16.7	21.1	30/85	50
	PIST-23B.50	PIST-23S.50	23	23.2	28.4	40/110	50
	PIST-29B.50	PIST-29S.50	29	28.9	34.5	50/135	50
	PIST-36B.30	PIST-36S.30	36	36.8	42.4	60/170	30
	PIST-48B.30	PIST-48S.30	48	48.0	54.5	75/220	30
	PISG-17B.50	PISG-17S.50	17	15.8	21.1	35/85	50
	PISG-23B.50	PISG-23S.50	23	22.0	28.4	45/110	50
	PISG-29B.50	PISG-29S.50	29	27.8	34.5	55/135	50
	PISG-36B.30	PISG-36S.30	36	36.2	42.4	65/170	30
	PISG-48B.30	PISG-48S.30	48	47.1	54.5	85/220	30
	PIHG-56B.30	PIHG-56S.30	56	57.0	67.5	110/270	30
	PIHG-70B.30	PIHG-70S.30	70	68.0	79.6	130/320	30
	PIHG-95B.30	PIHG-95S.30	95	92.5	107.0	170/430	30
	PIHG-125B.20	PIHG-125S.20	125	126.9	146.0	230/580	20

Approvals



PIS/PIH Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For robotics and automation applications. UL 94 V0. Excellent UV resistance and weathering characteristics

PIS: Medium-wall (Nominal width 07 to 48) / PIH: Heavy-wall (Nominal width 56 to 125)

Very good reversed bending characteristics. Good mechanical characteristics even under extreme conditions, such as low temperatures and low humidity

Materials	Temperature range	Colour
Specially modified polyamide 12	-50°C to +95°C	Black/Grey
Certification	Short-term to: +150°C	
Free from halogens, REACH compliant	Weathering characteristics	UV Resistance
and RoHS compliant	Excellent	Very high (black)

PMA conduit for Robotics/Automation

Type POS & PUE conduit



Type POS / PMAFLEX - Highly flexible, medium-duty

	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	POST-10B.50	10	9.9	12.8	20/50	50
	POST-12B.50	12	12.1	15.6	35/75	50
	POST-17B.50	17	16.7	21.1	30/85	50
	POST-23B.50	23	23.2	28.4	40/110	50
	POST-29B.50	29	28.8	34.5	50/135	50
	POST-36B.30	36	36.6	42.4	60/170	30
	POST-48B.30	48	48.2	54.5	75/220	30
	POSG-29B.30	29	27.8	34.4	55/135	50
	POSG-36B.30	36	36.2	42.4	65/170	30
	POSG-48B.30	48	47.2	54.5	85/220	30
	POSG-70B.30	70	67.4	79.6	130/320	30
	POSG-95B.30	95	92.3	106.0	170/430	30

POS Index

min. **max.**
Ductility

Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For automation as well as for machine building and industrial installations, especially where continuous movements occur
Excellent reversed bending performance and flexibility
Good impact resistance. Good resistance against strong acids

Materials	Temperature range	Colour
Specially modified polypropylene	-25°C to +95°C	Black
Certification	Fatigue resistance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +130°C –	Medium (black)

Type PUE / PMAFLEX - Highly flexible, medium-duty



	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	PUET-23B.50	23	23.1	28.4	40/75	50
	PUET-29B.30	29	29.0	34.5	45/90	30
	PUET-36B.30	36	36.8	42.4	55/110	30
	PUET-48B.21	48	48.4	54.5	70/140	21
	PUEG-56B.30	56	57.2	67.5	90/170	30
	PUEG-70B.30	70	68.4	79.6	105/220	30

PUE Index

min. **max.**
Ductility

Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For robotic applications with multi-axial movements
Specially suitable for tight bending-radii
Highest reversed bending resistance
Excellent chafing characteristics

Materials	Temperature range	Colour
Specially formulated polyurethane	-60°C to +50°C	Black
Certification	Fatigue resistance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	–	High (black)

PMA conduit for Robotics/Automation

Type ESD conduit

Type ESD / PMAFLEX - Very flexible, medium-duty conduit



	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
	ESDT-07B.50	07	6.7	10.0	15/40	50
	ESDT-10B.50	10	9.7	12.8	20/50	50
	ESDT-12B.50	12	12.0	15.6	25/65	50
	ESDT-17B.50	17	16.6	21.1	35/85	50
	ESDT-23B.50	23	23.0	28.4	40/110	50
	ESDT-29B.50	29	28.7	34.5	50/135	50
	ESDT-36B.30	36	36.8	42.4	60/170	30
	ESDT-48B.30	48	48.0	54.5	75/220	30
	ESDG-56B.30	56	55.8	67.5	110/270	30
	ESDG-70B.10	70	67.4	79.6	130/320	10
	ESDG-95B.10	95	91.5	107.0	170/430	10

For dynamic applications in robotics and automation where electrostatic charge and uncontrolled discharge need to be avoided
Prevents electrostatic charging. For indoor and outdoor use (very good cold temperature performance)

ESD Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Specially modified polyamide 12	-40°C to +90°C	Black
	Short-term to: +150°C	
Certification	Fatigue resistance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Excellent fatigue resistance	Very high (black)

PMA conduit for Machine Building

Type XPCL & XSOL conduit



Type XPCL / PMAFLEX Multilayer - Highly flexible, medium-duty

	Order no. (black/blue)	Order no. (grey/blue)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	XPCLT-10BB.50	XPCLT-10SB.50	10	9.6	12.8	20	50
	XPCLT-12BB.50	XPCLT-12SB.50	12	11.9	15.6	25	50
	XPCLT-17BB.50	XPCLT-17SB.50	17	16.5	21.1	35	50
	XPCLG-17BB.50	XPCLG-17SB.50	17	15.7	21.1	40	50
	XPCLG-23BB.50	XPCLG-23SB.50	23	21.9	28.4	50	50
	XPCLG-29BB.50	XPCLG-29SB.50	29	27.6	34.5	60	50
	XPCLG-36BB.30	XPCLG-36SB.30	36	36.0	42.4	75	30
	XPCLG-48BB.30	XPCLG-48SB.30	48	47.1	54.5	90	30

For machine building and equipment with high requirements
Allows easy cable insertion due to low friction inner layer
Very good ductility and good reversed bending characteristics
Good mechanical characteristics even under extreme conditions, such as low temperatures and low humidity

XPCL Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials
Outer layer: Specially formulated polyamide 6
Intermediate layer: Specially bonding
Inner layer: Specially modified polyethylene
Certification
Free from halogens, REACH compliant
and RoHS compliant

Temperature range	Colour
-50°C to +105°C	Black/Blue
Short-term to: +160°C	Grey/Blue
Fire performance	UV Resistance
Self-extinguishing	High (black)

Type XSOL / PMAFLEX Multilayer - Highly flexible, medium-duty



	Order no. (black/green)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	XSOLT-10BG.50	10	9.5	12.8	20	50
	XSOLT-12BG.50	12	11.9	15.6	25	50
	XSOLG-17BG.50	17	15.6	21.1	40	50
	XSOLG-23BG.50	23	21.9	28.4	50	50
	XSOLG-29BG.50	29	27.7	34.5	60	50
	XSOLG-36BG.30	36	36.4	42.4	75	30
	XSOLG-48BG.30	48	47.2	54.5	90	30

All-purpose, especially in long-term external applications, e.g. energy technology
Very good resistance to UV and weathering
Very high ductility and reversed bending resistance
Very good mechanical strength
High impact resistance even under extreme conditions, such as low temperatures and low humidity

Approvals



XSOL Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials
Outer layer: Specially formulated polyamide 12
Intermediate layer: Specially bonding compound
Inner layer: Specially modified polyamide 6
Certification
Free from halogens, REACH compliant
and RoHS compliant

Temperature range	Colour
-50°C to +95°C	Black/Green
Short-term to: +150°C	
Fire performance	UV Resistance
Good fire safety characteristics	High (black)
Self-extinguishing	

PMA conduit for Machine Building

Type VCS & VOH conduit

Type VCS / PMAFLEX - Flexible, heavy-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
VCS	VCST-07B.100	VCST-07S.100	07	6.6	10.0	20	100
	VCST-10B.50	VCST-10S.50	10	9.6	12.8	25	50
	VCST-12B.50	VCST-12S.50	12	12.0	15.6	30	50
	VCST-17B.50	VCST-17S.50	17	16.5	21.1	40	50
	VCSG-17B.50	VCSG-17S.50	17	15.7	21.1	45	50
	VCSG-23B.50	VCSG-23S.50	23	21.8	28.4	60	50
	VCSG-29B.50	VCSG-29S.50	29	27.6	34.5	70	50
	VCSG-36B.30	VCSG-36S.30	36	35.7	42.4	85	30
	VCSG-48B.30	VCSG-48S.30	48	46.7	54.5	110	30
	VCSG-56B.30	VCSG-56S.30	56	56.2	67.5	135	30
	VCSG-70B.10	VCSG-70S.10	70	67.1	79.6	160	10
	VCSG-95B.10	VCSG-95S.10	95	91.0	107.0	220	10

VCS Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For static external installations

High compression and impact strengths at low temperatures and low humidity
Good ductility. Very good resistance to ultra violet rays and weathering

Materials	Temperature range	Colour
Specially formulated polyamide 6	-50°C to +105°C	Black/Grey
Certification	Fatigue resistance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +160°C -	High (black)

Type VOH / PMAFLEX - Pliable, very heavy-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
VOH	VOHD-07B.50	VOHD-07S.50	07	6.3	10.0	20	50
	VOHD-10B.50	VOHD-10S.50	10	9.5	12.8	25	50
	VOHD-12B.50	VOHD-12S.50	12	11.9	15.6	30	50
	VOHG-17B.50	VOHG-17S.50	17	15.1	21.1	45	50
	VOHG-23B.50	VOHG-23S.50	23	21.6	28.4	60	50
	VOHG-29B.50	VOHG-29S.50	29	27.3	34.5	70	50
	VOHG-36B.30	VOHG-36S.30	36	35.6	42.4	85	30
	VOHG-48B.30	VOHG-48S.30	48	46.5	54.5	110	30
	VOHG-56B.10	VOHG-56S.10	56	55.7	67.5	135	10
	VOHG-70B.10	VOHG-70S.10	70	67.0	79.6	160	10
	VOHG-95B.10	VOHG-95S.10	95	91.3	107.0	220	10
	VOHG-125B.06	VOHG-125S.06	125	125.4	146.0	300	6

VOH Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For applications in heavy machine and plant construction

High compression resistance
Highest degree of mechanical protection
Very good UV and weathering resistance
Good fire safety characteristics

Materials	Temperature range	Colour
Specially modified polyamide 6	-40°C to +105°C	Black/Grey
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +160°C Good	High (black)

PMA conduit for Machine Building

Type PCL conduit

Type PCL / PMAFLEX - Very flexible, medium-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	PCLT-07B.50	PCLT-07S.50	07	6.6	10.0	15	50
	PCLT-10B.50	PCLT-10S.50	10	9.8	12.8	20	50
	PCLT-12B.50	PCLT-12S.50	12	12.1	15.6	25	50
	PCLT-17B.50	PCLT-17S.50	17	16.8	21.1	35	50
	PCLT-23B.50	PCLT-23S.50	23	23.2	28.4	45	50
	PCLT-29B.50	PCLT-29S.50	29	28.8	34.5	55	50
	PCLT-36B.30	PCLT-36S.30	36	36.7	42.4	65	30
	PCLT-48B.30	PCLT-48S.30	48	48.2	54.5	80	30
	PCLG-17B.50	PCLG-17S.50	17	15.8	21.1	40	50
	PCLG-23B.50	PCLG-23S.50	23	21.9	28.4	50	50
	PCLG-29B.50	PCLG-29S.50	29	27.8	34.5	60	50
	PCLG-36B.30	PCLG-36S.30	36	36.1	42.4	75	30
	PCLG-48B.30	PCLG-48S.30	48	46.9	54.5	90	30
	PCLG-56B.30	PCLG-56S.30	56	56.7	67.5	120	30
	PCLG-70B.10	PCLG-70S.10	70	67.5	79.6	140	10
	PCLG-95B.10	PCLG-95S.10	95	91.6	107.0	190	10
	PCLG-125B.06	PCLG-125S.06	125	125.5	146.0	260	6
Approvals 							
PCL Index min. max. Ductility Fatigue reversed bending Compression resistance Low temperature performance Weathering resistance							
Materials Temperature range Colour Certification Self extinguishing UV Resistance							
Specially formulated polyamide 6 -50°C to +105°C Black/Grey Free from halogens, REACH compliant and RoHS compliant Short-term to: +160°C High (black)							

For machine building, installation and vehicle building industries / static and slightly dynamic applications

Very good ductility and good reversed bending characteristics. Very good long-term properties

Very good mechanical characteristics even under extreme conditions, such as low temperatures and low humidity

PMA conduit for Machine Building

Type CYL & PEL conduit



Type CYL / PMAFLEX - Very flexible, medium-duty conduit

	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	CYLT-07B.50	CYLT-07S.50	07	6.6	10.0	15	50
	CYLT-10B.50	CYLT-10S.50	10	9.8	12.8	20	50
	CYLT-12B.50	CYLT-12S.50	12	12.1	15.6	25	50
	CYLT-17B.50	CYLT-17S.50	17	16.8	21.1	35	50
	CYLT-23B.50	CYLT-23S.50	23	23.2	28.4	45	50
	CYLT-29B.50	CYLT-29S.50	29	28.8	34.5	55	50
	CYLT-36B.30	CYLT-36S.30	36	36.7	42.4	65	30
	CYLT-48B.30	CYLT-48S.30	48	48.2	54.5	80	30
	CYLG-23B.50	CYLG-23S.50	23	21.9	28.4	50	50
	CYLG-29B.50	CYLG-29S.50	29	27.8	34.5	60	50
	CYLG-36B.30	CYLG-36S.30	36	36.1	42.4	75	30
	CYLG-48B.30	CYLG-48S.30	48	46.9	54.5	90	30
	CYLG-56B.30	CYLG-56S.30	56	56.7	67.5	120	30
	CYLG-70B.10	CYLG-70S.10	70	67.5	79.6	140	10
	CYLG-95B.10	CYLG-95S.10	95	91.6	107.0	190	10
	CYLG-125B.06	CYLG-125S.06	125	125.5	146.0	260	06

Approvals



CYL Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For machine building and installation industries / static and slightly dynamic applications
 Very good ductility and good reversed bending characteristics
 Good mechanical characteristics even under extreme conditions, such as low temperatures and low humidity

Materials	Temperature range	Colour
Specially formulated polyamide 6	-40°C to +105°C	Black/Grey
Certification	Self extinguishing	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +160°C acc. to UL 94 V2	High (black)

Type PEL / PMAFLEX - Highly flexible, light-duty, soft



	Order no. (grey)	Order no. (grey, slit)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	PELT-10S.50	PELT-10SL.50	10	9.8	12.8	20	50
	PELT-12S.50	PELT-12SL.50	12	12.2	15.6	25	50
	PELT-17S.50	PELT-17SL.50	17	16.8	21.1	30	50
	PELT-23S.50	PELT-23SL.50	23	23.2	28.4	40	50
	PELT-29S.30	PELT-29SL.30	29	28.9	34.5	45	30
	PELT-36S.30	PELT-36SL.30	36	37.0	42.4	55	30
	PELT-48S.30	PELT-48SL.30	48	48.2	54.5	70	30

PEL Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For electrical cabinets and appliance construction
 Very good ductility
 Suitable for small bending radii
 Good resistance against strong acids and bases

Materials	Temperature range	Colour
Specially modified polyethylene	-50°C to +60°C	Grey
Certification	Self extinguishing	UV Resistance
Free from halogens, REACH compliant and RoHS compliant		Medium (black)

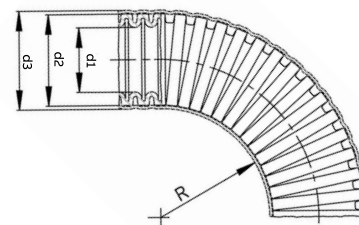
Type JLLPA conduit



Flexible, smooth over-extruded conduit for applications with cleaning requirements
For static applications in machine building, installation and construction industries
For general applications with cleaning requirements
Smooth outer layer for easy cleaning, good resistance to chemicals and cleaning agents
Flexibility in combination with high strength. Compatible with PMAFIX Pro
UL Recognition according to UL 1696 (File E80294)

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Conduit: High-grade, specially formulated polyamide 6	-18°C to +105°C	Black
Overextrusion: modified polyamide 6	Short-term to: +160°C	
Certification	Fire performance	UV Resistance
Free from halogens and cadmium	Self-extinguishing	High (black)
RoHS and REACH compliant		



PMA conduits for special applications

Type PHT & POH conduit

Type PHT / PMAFLEX Pro - Highly flexible, medium/heavy-duty



	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
PHT 	PHTT-07B.50	07	6.7	10.0	15/40	50
	PHTT-10B.50	10	9.7	12.8	20/50	50
	PHTT-12B.50	12	12.1	15.6	25/65	50
	PHTT-17B.50	17	16.8	21.1	35/85	50
	PHTT-23B.50	23	23.3	28.4	45/110	50
	PHTG-17B.50	17	15.6	21.1	40/85	50
	PHTG-23B.50	23	22.0	28.4	50/110	50
	PHTG-29B.50	29	27.9	34.5	60/135	50
	PHTG-36B.30	36	36.2	42.4	75/170	30
	PHTG-48B.30	48	47.3	54.5	90/220	30

PHT Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance (PHTT-17B)	
Compression resistance (PHTG-17B)	
Low temperature performance	
Weathering resistance	

For applications at high and very low temperatures / dynamic applications
Specially formulated polyamide elastomer. Both excellent flexibility and high compression strength
Enhanced temperature range compared to standard polyamides
High resistance to ultra violet rays and weathering

Materials	Temperature range	Colour
Specially formulated polyamide elastomer	-50°C to +135°C	Black
Certification	Impact resistance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +180°C Extremely good at low temperatures	High (black)

Type POH / PMAFLEX Pro - Very flexible, medium-duty



	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
POH 	POHT-10B.50	10	10.0	12.8	20	50
	POHT-12B.50	12	12.3	15.6	25	50
	POHG-17B.50	17	16.0	21.1	40	50
	POHG-23B.50	23	22.1	28.4	50	50
	POHG-29B.50	29	28.0	34.5	60	50
	POHG-36B.30	36	36.4	42.4	75	30
	POHG-48B.30	48	47.0	54.5	90	30

POH Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

For highest fire and passenger safety requirements
Excellent fire safety characteristics acc. to BS 6853 1a (interior)
Good ductility and reversed bending characteristics

Materials	Temperature range	Colour
Specially modified polypropylene	-25°C to +95°C	Black
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +120°C acc. to BS 6853 1a (interior)	High (black)

PMA conduit for hazardous area

Type XESX conduit

Type XESX / PMA Ex-System - Flexible, heavy-grade



	Order no. (black/yellow)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m)
XESX	XESX0250.50	10	9.2	12.8	25/65	50
	XESX0350.50	12	11.8	15.6	30/70	50
	XESX0450.50	17	15.2	21.1	35/85	50
	XESX0550.50	23	22.0	28.4	40/110	50
	XESX0650.50	29	27.5	34.5	50/130	50
	XESX0730.30	36	35.8	42.4	60/180	30
	XESX0830.30	48	46.8	54.5	70/220	30

Flexible, anti-static conduit ideal for hazardous areas such as explosion endangered zones

For indoor and outdoor applications in hazardous areas

Electrostatically discharging

Excellent mechanical characteristics, also under extreme climatic conditions as low temperature

High abrasion resistance

EC TYPE Examination Certificate for use with EXPQ metallic fittings:

Baseefa 08 ATEX 0003X, IECEx BAS 8.0001X

Ex e IIC Gb

Ex tb IIIC Db

EC TYPE Examination Certificate for use with non metallic fittings and accessories:

SEV 15 ATEX 0121X, IECEx SEV 15.0009X

Ex eb IIC Gb

Ex tb IIIC Db

Approvals



XESX Index

min.	max.			
Ductility		Materials	Temperature range	Colour
Fatigue reversed bending		Outer layer: Dissipative PA12	-50°C to +90°C	Black/Yellow
Compression resistance		Inner layer: Impact resistant HDPE	Short-term to: +150°C	
Low temperature performance		Certification	Fire performance	UV Resistance
Weathering resistance		Free from halogens, REACH compliant	Self-extinguishing	Very high (black)
		and RoHS compliant		

PMA conduit for Food & Beverage

Type JFBD conduit

Type JFBD / PMA Overextruded - Flexible, medium-duty



	Order no.	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (mm)
JFBD	JFBDT-12C01.50	12	12.0	16.0	40/100	50
	JFBDG-17C01.50	17	15.7	21.5	55/125	50
	JFBDG-23C01.50	23	21.8	28.7	75/170	50
	JFBDG-29C01.50	29	27.6	34.9	90/210	50
	JFBDG-36C01.30	32	36.3	43.0	110/260	30
	JFBDG-48C01.30	48	47.3	54.8	140/330	30



Smooth easy to clean out layer
High reversed bending stresses
Excellent flexibility in combination with high strength
High resistance to chemicals and cleaning agents
For indoor food zone – non contact
Outer layer made from FDA compliant material
Corrosion free

Approvals



JFBD Index

min.	max.	Materials	Colour
Ductility		Conduit: made from high-grade, specially formulated polyamide 12	Corrugated conduit: blue
Fatigue reversed bending		Overextrusion: made from modified polyamide elastomer	Overextrusion: blue, translucent
Compression resistance		Certification	UV Resistance
Low temperature performance		FDA 21 CFR / EU 10/2011 compliant outer layer material; ECOLAB certificate	Medium
Weathering resistance			

Type CUS conduit

Type CUS / PMA conduit for UL-Listing requirements - Very flexible, medium-duty



	Order no. (black)	Conduit size		Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m/ft)
		Inch	NW				
	CUSG-17B.31	½	17	15.5	21.1	40	31/100
	CUSG-23B.31	¾	23	21.7	28.4	50	31/100
	CUSG-29B.31	1	29	27.4	34.5	60	31/100
	CUSG-36B.31	1 ¼	36	35.5	42.4	75	31/100
	CUSG-48B.31	1 ½	48	46.5	54.5	90	31/100



For machine building and installation industries For electrical installations, especially in the US market Inexpensive solution for requirements acc. to UL 1660 (UL Listing) Good ductility and reversed bending characteristics Very good mechanical properties even under extreme conditions, such as low temperatures and low humidity

Approvals



CUS Index

min.	max.			
Ductility				
Fatigue reversed bending		Materials	Temperature range	Colour
Compression resistance		Specially modified polyamide 6	-40°C to +105°C	Black
Low temperature performance		Certification	Short-term to: +160°C	
Weathering resistance		Free from halogens, REACH compliant	Fire protection	UV Resistance
		and RoHS compliant	Self-extinguishing, acc. to UL 94 V2	High (black)

PMA conduit for UL-Listing requirements

Type PUS conduit



Type PUS / PMAFLEX Plus - Very flexible, heavy-duty

	Order no. (black)	Conduit size		Inside Ø (mm)	Outside Ø (mm)	Stat./Dyn. radius (mm)	PU (m/ft)
		Inch	NW				
PUS	PUSG-17B.31	½	17	15.5	21.1	35/85	31/100
	PUSG-23B.31	¾	23	21.6	28.4	45/110	31/100
	PUSG-29B.31	1	29	27.5	34.5	55/135	31/100
	PUSG-36B.31	1 ¼	36	35.9	42.4	65/170	31/100
	PUSG-48B.31	1 ½	48	47.0	54.5	85/220	31/100



For long-term external applications with approval acc. to UL 1660 (UL Listing)

For dynamic applications

Very good reversed bending resistance

Very good mechanical strength at low temperatures

Excellent resistance to ultra violet rays and weathering

cULus listed

Approvals



PUS Index

min. max.

Ductility

Fatigue reversed bending

Compression resistance

Low temperature performance

Weathering resistance

Materials

Specially modified polyamide 12

Certification

Free from halogens, REACH compliant

and RoHS compliant

Temperature range

-50°C to +95°C

Short-term to: +150°C

Fire protection

Self-extinguishing, acc. to UL 94 V2

Colour

Black

UV Resistance

Very high (black)

PMA conduit for general applications

Type LLPA conduit

Type LLPA / PMA Smart Line - Very flexible, medium-duty Smartline



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	LLPA-07A.50	LLPA-07S.50	07	6.6	10.0	15	50
	LLPA-10A.50	LLPA-10S.50	10	9.8	12.8	20	50
	LLPA-12A.50	LLPA-12S.50	12	12.1	15.6	25	50
	LLPA-17A.50	LLPA-17S.50	17	16.8	21.1	35	50
	LLPA-23A.50	LLPA-23S.50	23	23.2	28.4	45	50
	LLPA-29A.50	LLPA-29S.50	29	28.8	34.5	55	50
	LLPA-36A.30	LLPA-36S.30	36	36.7	42.4	65	30
	LLPA-48A.30	LLPA-48S.30	48	48.2	54.5	80	30
	LLPAG-17A.50	LLPAG-17S.50	17	15.8	21.1	40	50
	LLPAG-23A.50	LLPAG-23S.50	23	21.9	28.4	50	50
	LLPAG-29A.50	LLPAG-29S.50	29	27.8	34.5	60	50
	LLPAG-36A.30	LLPAG-36S.30	36	36.1	42.4	75	30
	LLPAG-48A.30	LLPAG-48S.30	48	46.9	54.5	90	30
	LLPAG-56A.30	LLPAG-56S.30	56	56.7	67.5	120	30
	LLPAG-70A.10	LLPAG-70S.10	70	67.5	79.6	140	10
	LLPAG-95A.10	LLPAG-95S.10	95	91.6	107.0	190	10
	LLPAG-125A.06	LLPAG-125S.06	125	125.5	146.0	260	06
Approvals 							
LLPA Index min. max. Ductility Fatigue reversed bending Compression resistance Low temperature performance Weathering resistance For machine building, installation and construction industries Good ductility Good mechanical characteristics							
Materials Specially modified polyamide 6				Temperature range -40°C to +105°C		Colour Black/Grey	
Certification Free from halogens, REACH compliant and RoHS compliant				Self extinguishing acc. to UL 94 V2		UV Resistance High (black)	

PMA conduit for general applications

Type LLPF conduit

Type LLPF / PMA Smart Line - Very flexible, medium-duty



	Order no. (black)	Order no. (grey)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	LLPF-07A.50	LLPF-07S.50	7	6.8	10.0	15	50
	LLPF-10A.50	LLPF-10S.50	10	9.8	12.8	20	50
	LLPF-12A.50	LLPF-12S.50	12	12.2	15.6	25	50
	LLPF-17A.50	LLPF-17S.50	17	16.8	21.1	35	50
	LLPF-23A.50	LLPF-23S.50	23	23.4	28.4	45	50
	LLPF-29A.50	LLPF-29S.50	29	29.1	34.5	55	50
	LLPFG-17A.50	LLPFG-17S.50	17	15.8	21.1	40	50
	LLPFG-23A.50	LLPFG-23S.50	23	21.9	28.4	50	50
	LLPFG-29A.50	LLPFG-29S.50	29	27.8	34.5	60	50
	LLPFG-36A.30	LLPFG-36S.30	36	36.1	42.4	75	30
	LLPFG-48A.30	LLPFG-48S.30	48	46.9	54.5	90	30

For machine building, installation and construction industries

For applications with high fire safety requirements

UL 94 V0

Good pressure resistance

Very good fire safety characteristics

LLPF Index

min. max.

Ductility

Fatigue reversed bending

Compression resistance

Low temperature performance

Weathering resistance

Materials

Specially modified polyamide 6

Certification

Free from halogens, REACH compliant
and RoHS compliant

Temperature range

-40°C to +105°C

Short-term to: +160°C

Fire protection

Self-extinguishing

Colour

Black/Grey

UV Resistance

High (black)

PMA conduits for retrofit applications

Type PACOF & PPCOF conduit

Type PACOF / PMA Divisible System - Flexible, divisible



	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	PACOF-07B.50	07	5.6	10.0	30	50
	PACOF-10B.50	10	8.5	12.8	33	50
	PACOF-12B.50	12	11.0	15.6	35	50
	PACOF-17B.50	17	15.5	21.1	45	50
	PACOF-23B.50	23	22.1	28.4	70	50
	PACOF-29B.50	29	27.2	34.5	120	50
	PACOF-36B.30	36	32.0	42.4	145	30
	PACOF-48B.30	48	43.9	54.1	150	30
	PACOF-70B.10	70	62.0	79.0	190	10

HL3 according to EN45545-2

NFPA 130 compliant

For machine building and plant construction

For trouble-free retrofitting and applicable for repairs

Can be opened and closed again in longitudinal direction any time

Good ductility

Good compression resistance

PACOF Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Specially modified polyamide 6	-40°C to +105°C	Black
Certification	Fire performance	UV Resistance
Free from halogens, REACH compliant and RoHS compliant	Short-term to: +160°C	High (black)

Type PPCOF / PMA Divisible System - Flexible, divisible



	Order no. (black)	Conduit size NW	Inside Ø (mm)	Outside Ø (mm)	Stat. radius (mm)	PU (m)
	PPCOF-07B.50	07	5.6	10.0	25	50
	PPCOF-10B.50	10	8.5	12.8	28	50
	PPCOF-12B.50	12	11.0	15.6	35	50
	PPCOF-17B.50	17	15.1	21.1	45	50
	PPCOF-23B.50	23	22.1	28.4	60	50
	PPCOF-29B.50	29	26.6	34.5	100	50
	PPCOF-36B.30	36	31.8	42.4	120	30
	PPCOF-48B.30	48	43.9	54.1	140	30
	PPCOF-70B.10	70	60.5	78.0	200	10

For machine building and plant construction

For trouble-free retrofitting and applicable for repairs

Can be opened and closed again in longitudinal direction any time

Good reversed bending resistance

PPCOF Index

min.	max.
Ductility	
Fatigue reversed bending	
Compression resistance	
Low temperature performance	
Weathering resistance	

Materials	Temperature range	Colour
Specially modified polypropylene PP	-20°C to +105°C	Black
Certification	Fire performance	UV Resistance
—	Short-term to +150°C	Medium (black)

Stainless steel overbraided conduit

Type XPCS.../S stainless steel overbraiding for conduits

Type XPCS.../S / PMAFLEX Overbraided - Stainless steel overbraided conduit



	Order no. (black)	Conduit size NW	fits to metal fitting	braid spec (mm)	d1 Ø (mm)	d2 Ø (mm)	PU (m)
	XPCST-12BG/S.50	12	MONK-M162	24 x 8 x 0.30	*	17.5	50
	XPCST-17BG/S.50	17	MONK-M207	32 x 7 x 0.30	*	23.0	50
	XPCSG-23BG/S.50	23	MONK-M253	36 x 8 x 0.30	*	31.0	50
	XPCSG-29BG/S.50	29	MONK-M329	36 x 10 x 0.30	*	36.0	50
	XPCSG-36BG/S.50	36	MONK-M406	36 x 12 x 0.30	*	44.5	30
	XPCSG-48BG/S.50	48	MONK-M508	36 x 14 x 0.30	*	58.5	30

Our customer service or your local distribution partner will be pleased to help you concerning product availability and lead time

Application: in machine and railway construction; for high mechanical loads; in areas with hot swarf and flying sparks

Characteristics: increased mechanical conduit protection; extremely high abrasion resistance

Coverage: > 90%

Suitable for PMAFLEX, PMA Smart Line; Special metal fittings (MONK)

Materials	Temperature range	Colour
Braid made with stainless steel AISI	-70°C to +1000°C	Metal
Certification	Fire performance	UV Resistance
RoHS compliant	–	Very high

Alpha Contromatic Co., Ltd.

9 Soi On-nuch 62, Sukhumvit 77 Rd.

Suanluang, Suanluang, Bangkok 10250

Tel. 02 721 1801-8

M. 088 669 9493

sales@alphac.co.th

www.alphac.co.th

