

Main catalogue

Electrical Systems



Connecting the future
October 2019

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General information

Did you know that? All our products are REACH compliant!

REACH is a regulation of the European Union adopted to improve the protection of human health and the environment against the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals.

Source: www.echa.europa.eu/de/regulations/reach/understanding-reach



With POF-based DATALIGHT® system to the gold standard

The broadband seal of quality that is valid throughout Germany distinguishes high-speed networks in new buildings and for retrofitting of buildings – be it for surfing, streaming or download activities. It confirms future-proof infrastructures inside buildings and, in doing so, promotes broadband expansion. The optical DATALIGHT network system by FRÄNKISCHE that transmits data via light waves on the basis of a polymer optical fibre (POF) meets all the requirements necessary to achieve the highest grade of the seal of quality: the gold standard.



Sustainability

FRÄNKISCHE has conducted calculations of the carbon footprint of selected product groups over their entire life cycle. The aim is to determine environmentally relevant process steps, and to open up potential for improvement.

The process steps with high impact on the carbon footprint have been identified, and the potential for development regarding the materials and energy used has been shown. Another objective of the study is to boost the environmental awareness of the employees, and to convincingly demonstrate to our sales partners and end customers that FRÄNKISCHE systematically determines the values of the greenhouse gases of all process modules in order to identify the major sources of these emissions.

The study was carefully reviewed and certified by TÜV Rheinland LGA Products GmbH with regard to the EN ISO 14040:2006 and EN ISO 14044:2009 standards.





DATALIGHT® – optical network system

- Electrical conduit with integrated data cable
- Quick installation without extra effort and expense
- Parallel installation of both electrical lines and 1 Gbps network
- Innovative product for broadband installation in buildings

DATALIGHT® – optical network system

FFKuS DATALIGHT®

33412



- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: PVC
- Low friction inner surface
- Integrated 2.2 mm polymer optical fibre
- Power and data can be installed in parallel

EN 61386-22

Minimum compressive strength:
750 N/5 cm

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25710025	25	25.0	17.2	100	13.0	500	160	blue-purple

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the DATALIGHT accessories section (pages 11–12).

DATALIGHT® Duplex Fibre 2.2



- Polymer optical fibre (duplex)
- Category OP1, multi-mode 980/1000
- With 2.2 mm PVC or PE jacket
- Colour: light grey or white

Cat. no.	Type	Packing unit [m]	Colour
25780102	100	100	light grey
25780002	1000	1000	
25781025	25	25	white
25781050	50	50	
25781502	500	500	

NEU

DATALIGHT® converter 1-port



- 1 x RJ45 port (LAN)
- 1 x optical connection for Duplex Fibre 2.2
- Integrated media converter
- For transmissions of 1 Gbps
- Including power supply unit and USB connection cable
- Including 0.5 m patch cable

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25740011	1000	1	1000

DATALIGHT® – optical network system

DATALIGHT® LAN access point 2-port



- Concealed network access point
- 2 x RJ45 ports (LAN)
- 1 x optical connection for Duplex Fibre 2.2
- Integrated media converter
- Integrated Ethernet switch
- For transmissions of 100 Mbps and 1 Gbps
- 230 V power supply accessible on the rear side
- Compatible with all switch programmes

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25720021	1000	1	1000

DATALIGHT® LAN access point 2-port



- Concealed network access point
- 2 x RJ45 ports (LAN)
- 1 x optical connection for Duplex Fibre 2.2
- Integrated media converter
- Integrated Ethernet switch
- For transmissions of 100 Mbps
- 230 V power supply accessible on the rear side
- Compatible with all switch programmes

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25720121	100	1	100

DATALIGHT® wireless access point



- Concealed network access point
- 1 x RJ45 port (LAN)
- 1 x optical connection for Duplex Fibre 2.2
- Integrated media converter
- Integrated wireless transmitter with 2.4 GHz
- For transmissions of 100 Mbps
- 230 V power supply accessible on the rear side
- Compatible with all switch programmes

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25721111	100	1	100

DATALIGHT® – optical network system

DATALIGHT® switch 12+4-port



- Network switch in 19-inch design
- 2 x RJ45 ports (LAN)
- 2 x SFP+ ports (up to 10 Gbps)
- 12 x optical connections for Duplex Fibre 2.2
- Console and USB port for configuration
- Comprehensive management functions
- For transmissions of 100 Mbps and 1 Gbps
- Including power supply unit and installation adapter

NEW

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25730412	1 G	1	1000
25731412	10 G	1	1000

DATALIGHT® easy switch 6+2-port



- Network switch in desktop design
- 2 x RJ45 ports (LAN)
- 6 x optical connections for Duplex Fibre 2.2
- Integrated media converter
- Integrated Ethernet switch
- For transmissions of 100 Mbps and 1 Gbps
- Including power supply unit

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25731026	1000	1	1000

DATALIGHT® switch 6+2-port



- Network switch in desktop design
- 2 x RJ45 ports (LAN)
- 6 x optical connections for Duplex Fibre 2.2
- Integrated media converter
- Integrated Ethernet switch
- For transmissions of 100 Mbps
- Including power supply unit

Cat. no.	Type	Packing unit [pcs.]	Data rate [Mbps]
25730126	100	1	100

DATALIGHT® accessories

DATALIGHT® DLSMI-KC



NEW

- DATALIGHT coupling to SMI socket
- To connect SMI plugs
- Suitable for keystone support rings
- For DLSMI-PT150, DATALIGHT Duplex Fibre 2.2, FFKuS DATALIGHT

Cat. no.	Type	Packing unit [pcs.]
25751001	–	1

DATALIGHT® DLSMI-PT150



NEW

- DATALIGHT SMI connection cable
- Open end for plug-free unit connection
- To connect to SMI socket
- For DLSMI-KC, DATALIGHT converter 1-port 1000

Cat. no.	Type	Packing unit [pcs.]
25752015	–	1

DATALIGHT® DLSMI-L



NEW

- Bridge with SMI plug
- As an aid for measuring
- To connect to SMI socket
- For DLSMI-KC, DATALIGHT power meter

Cat. no.	Type	Packing unit [pcs.]
25753001	–	1

DATALIGHT® connector 2.2



- Connector for Duplex Fibre 2.2
- High tensile strength clamp connection
- Can be unclamped
- No splicing and no skinning necessary
- For Duplex Fibre 2.2 DATALIGHT, FFKuS DATALIGHT

Cat. no.	Type	Packing unit [pcs.]
25750002	–	5

DATALIGHT® accessories

DATALIGHT® cutter



- Cutting device for Duplex Fibre 2.2
- Simple and quick fibre stripping
- Very low attenuation at the connection points
- For up to 40 cutting operations
- For Duplex Fibre 2.2 DATALIGHT, FFKuS DATALIGHT

Cat. no.	Type	Packing unit [pcs.]
25790001	–	5

DATALIGHT® power meter



- To measure DATALIGHT routes
- With memory function
- Data export via USB interface
- Including free protocol software
- For Duplex Fibre 2.2 DATALIGHT and FFKuS DATALIGHT

Cat. no.	Type	Packing unit [pcs.]
25760001	–	1

DATALIGHT® fibre kit



- All components for basic installation
- 100 m DATALIGHT Duplex Fibre 2.2
- 4 x DATALIGHT LAN access point 2-port 100
- 1 x DATALIGHT switch 6+2-port 100
- 1 x DATALIGHT cutter
- Immediate installation without special tools
- For network retrofitting in existing buildings

Cat. no.	Type	Packing unit [pcs.]
25701100	100	100



Corrugated plastic conduits

- Predominantly with highspeed technology for quick insertion of wires and cables
- Non-flame propagating according to EN 61386-1
- Comprehensive range of accessories

Corrugated plastic conduits

FBY®-EL-F Highspeed

23322



EN 61386-22

Minimum compressive strength:
320 N/5 cm

- Pliable corrugated plastic conduit
- Light compressive strength
- Medium impact strength
- Temperature range from -15 °C to +90 °C
- Material: polyolefin
- Highspeed technology
- Easy insertion of long cables
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
26210016	16	16.0	10.9	100	3.9	2800	60	black
26210020	20**	20.0	14.9	100	5.1	2000	80	
26210025	25**	25.0	19.3	50	3.6	1200	100	
26210032	32	32.0	24.9	50	5.2	800	130	
26210040	40	40.0	31.5	25	3.7	500	170	
26210050	50	50.0	39.4	25	4.7	400	220	
26210063	63	63.0	50.3	25	6.2	150	250	
26220020	20**	20.0	14.9	100	5.1	2000	80	white
26220025	25**	25.0	19.3	50	3.6	1200	100	
26220032	32	32.0	24.9	50	5.2	800	130	
26230020	20**	20.0	14.9	100	5.1	2000	80	grey
26230025	25**	25.0	19.3	50	3.6	1200	100	
26230032	32	32.0	24.9	50	5.2	800	130	
26240020	20**	20.0	14.9	100	5.1	2000	80	blue
26240025	25**	25.0	19.3	50	3.6	1200	100	
26240032	32	32.0	24.9	50	5.2	800	130	
26250020	20**	20.0	14.9	100	5.1	2000	80	green
26250025	25**	25.0	19.3	50	3.6	1200	100	
26250032	32	32.0	24.9	50	5.2	800	130	

* Production-related dimensional tolerances acc. to EN 60423.

** With inner surface.

For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

Corrugated plastic conduits

FFKu®-EL-F

22212



- Pliable corrugated plastic conduit
- Light compressive strength
- Light impact strength
- Temperature range from -5 °C to +60 °C
- Material: PVC-U
- Corrosion-resistant

EN 61386-22
Minimum compressive strength:
320 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25010016	16	16.0	11.0	100	3.3	2400	60	beige
25010020	20	20.0	14.5	100	4.7	2000	80	
25010025	25	25.0	18.8	50	2.7	1000	100	
25010032	32	32.0	24.5	50	4.4	800	130	
25010040	40	40.0	31.7	25	2.9	400	170	
25010050	50	50.0	40.3	25	4.2	400	220	
25010063	63	63.0	50.7	25	5.3	150	250	
25005016	16	16.0	11.0	50	1.6	2100	60	light grey
25005020	20	20.0	14.5	50	2.3	1500	80	
25005025	25	25.0	18.8	50	2.7	1200	100	
25005032	32	32.0	24.5	25	2.2	600	130	
25005040	40	40.0	31.7	25	2.9	400	170	
25005050	50	50.0	40.3	25	4.2	400	220	
25005063	63	63.0	50.7	25	5.3	150	250	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

Corrugated plastic conduits

FFKu®-ReMo click

23422



- Pliable corrugated plastic conduit
- Increased compressive strength 500 N/5 cm
- Medium impact strength
- Temperature range from -25 °C to +90 °C
- Material: polyolefin
- Low friction inner surface
- Installation using glue and patented clamping geometry
- Adheres to all dust-free surfaces

EN 61386-22
Minimum compressive strength:
320 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
26610025	25	25.0	18.0	50	4.3	1200	110	signal blue

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

Fastening

The rail is mounted to the surface.



Installation

Easy installation thanks to patented clamp geometry.



Accessories

Airtight flush-mounted socket with rear insertion options.



Corrugated plastic conduits

FFKu-EM-F Highspeed

33412



EN 61386-22
Minimum compressive strength:
750 N/5 cm



- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: PVC-U
- Highspeed technology
- Cable insertion over long distances

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25205016	16	16.0	10.9	50	2.3	2100	70	grey
25205020	20	20.0	14.2	50	3.0	1500	90	
25205025	25	25.0	18.6	50	4.4	1200	110	
25205032	32	32.0	24.4	25	3.0	600	130	
25205040	40	40.0	31.4	25	4.2	400	170	
25205050	50	50.0	39.9	25	5.4	400	220	
25205063	63	63.0	49.9	25	7.7	150	300	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

FFKuS®-EM-F Highspeed

33412



EN 61386-22
Minimum compressive strength:
750 N/5 cm



- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: PVC-U / PVC-P
- Highspeed technology
- Cable insertion over long distances
- Additional protection thanks to jacketing

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25310016	16	16.0	10.9	50	3.5	2000	70	light grey
25310020	20	20.0	14.2	50	5	1400	90	
25310025	25	25.0	18.6	50	6.8	1200	110	
25310032	32	32.0	24.3	25	4.7	700	130	
25310040	40	40.0	31.3	25	6.0	500	170	
25310050	50	50.0	40.0	25	7.6	400	220	
25310063	63	63.0	50.5	25	10.8	150	300	
25340020	20	20.0	14.2	50	5.0	1400	90	blue
25340025	25	25.0	18.6	50	6.8	1200	110	
25350020	20	20.0	14.2	50	5.0	1400	90	green
25350025	25	25.0	18.6	50	6.8	1200	110	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

Corrugated plastic conduits

FFKuS®-EM-F-105 Highspeed

33532



EN 61386-22
Minimum compressive strength:
750 N/5 cm



- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -45 °C to +105 °C
- Material: special plastic
- Highspeed technology
- High temperature resistant
- Cold impact strength in extreme temperatures

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25610016	16	16.0	10.4	50	3.8	2000	70	magenta
25610020	20**	20.0	13.6	50	5.0	1400	90	
25610025	25**	25.0	17.9	50	6.9	1000	110	
25610032	32	32.0	23.4	25	4.7	700	130	
25610040	40	40.0	30.0	25	6.3	200	170	
25610050	50	50.0	38.8	25	8.1	150	220	
25610063	63	63.0	48.8	25	10.9	125	300	

* Production-related dimensional tolerances acc. to EN 60423.
** With inner surface.
For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

FFKuS®-Smart net

33522



EN 61386-22
Minimum compressive strength:
750 N/5 cm



- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -45 °C to +90 °C
- Material: polyolefin
- Low friction inner surface
- Edgeless
- Ideal for all types of data cables

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25230025	25	25.0	17.0	50	5.5	400	160	blue-purple

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the Corrugated plastic conduit accessories section (pages 19–22).

Corrugated plastic conduit accessories

SMSKu-ER



- Plastic claw coupling
- Halogen-free

- Material: PA66
- For all corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25940020	20	50	black
25940025	25	50	

SMSKu-EZF



- High tensile strength plastic push-fit coupling
- Concrete-tight
- Material: PE
- For all corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25950016	16	25	transparent
25950020	20	50	
25950025	25	50	
25950032	32	25	
25950040	40	25	
25950050	50	10	
25950063	63	5	

RMKu-E



- Plastic push-fit coupling
- Cross grooves for better locking
- Material: PE
- For all corrugated conduits containing halogen

Cat. no.	Type	Packing unit [pcs.]	Colour
25930016	16	50	transparent
25930020	20	100	
25930025	25	100	
25930032	32	50	
25930040	40	25	
25930050	50	10	

Corrugated plastic conduit accessories

FRVS-E



- Conduit blanking plug
- Sealing at the construction site
- To protect unused conduits
- Material: PE
- Five identification plates included per packing unit
- For all corrugated and straight length conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25970016	16	100	red
25970020	20	100	green
25970025	25	100	purple
25970032	32	50	blue
25970040	40	50	yellow
25970050	50	25	green
25970063	63	10	purple

Identification plate



- For FRVS-E
- With large labelling surface
- Material: PE
- Push-fit to the FRVS-E lug

Cat. no.	Type	Packing unit [pcs.]	Colour
15971000	–	100	white

FKV-E



- Threaded plastic connector
- Halogen-free
- Material: PA6
- For all corrugated conduits

Cat. no.	Type	Connecting thread .. x 1.5	Packing unit [pcs.]	Colour
25955016	16	M16	25	grey
25955020	20	M20	25	
25955025	25	M25	25	
25955032	32	M32	25	

Corrugated plastic conduit accessories

FWVS-E



- Airtight plug
- Membrane to insert wires and cables
- Material: TPE
- For all corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25975016	16	25	grey
25975020	20	50	
25975025	25	50	
25975032	32	25	
25975040	40	25	

ReMo click rail



- Click rail
- Including pre-mounted adhesive tape
- Very high initial adhesion, connectable
- Material: PVC
- For FFKu-ReMo click
- Adheres to dust-free surfaces

Cat. no.	Type	Packing unit [pcs.]	Colour
26670001	–	50	black

ReMo UP socket



- Flush-mounted socket
- With rear insertion
- Airtight
- Material: PS
- For FFKu-ReMo click
- Halogen-free

Cat. no.	Type	Packing unit [pcs.]	Colour
26680025	–	25	black

Corrugated plastic conduit accessories

SMSKu-UE 20-25



- High tensile strength plastic transition coupling
- Adapter from type 25 to type 20
- Material: PE
- For all corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25957025	–	10	blue

FRS



- Pipe cutter made of high tensile special steel
- Fibre glass reinforced plastic handles
- Hardened and tempered in oil
- For cutting 12–25 mm conduits

Cat. no.	Type	Weight [kg]	Length [mm]	Packing unit [pcs.]	Colour
25999025	25	0.180	185.0	1	black

Fire protection

BSM-E fire protection sleeve



European technical approvals
ETA-11/0372, fire resistance class
EI 120 according to EN 13501

- Fire stop for FFKuS-EM-F Highspeed and FFKuS-EM-F-105 Highspeed
- Sealing of fire protection walls / ceilings
- For single conduits or conduit packages
- For retrofit installation
- Apply sealants onto the conduit ends according to ETA-11/0372*
- No filling of conduit clearances
- Incl. fastening material

Cat. no.	Type	Inside Ø [mm]	Packing unit [pcs.]
29010063	63	67	5
29010110	110	114	1
29010125	125	129	1

* See downloads at www.fraenkische.com

BSF-E Firestop fire protection sealant



- Foaming sealant in case of fire
- For sealing / closing openings
- Suitable for conduit penetrations
- Suitable for cable feed-throughs
- Cartridge
- Suitable for expansion joints
- Suitable for fire doors
- Suitable for fire windows
- Does not contain any halogenated compounds

Cat. no.	Type	Length [mm]	Height [mm]	Width [mm]	Packing unit [pcs.]
29010000	–	230	50	50	1

Not approved in connection with BSM-E.

Building material classification B2
according to DIN 4102, Part 1
General Building Authority
Approval – Z-19.11-1746

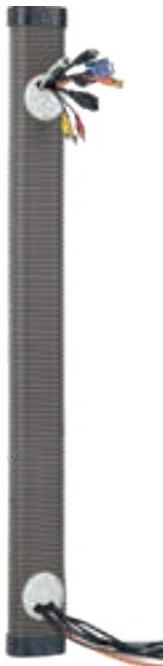


Multi-media conduit – no more cable mess

- Oval conduit for shallow installation depths
- Collects all important cables and wires related to flat-screen monitors and projectors
- Installed invisibly in the wall
- Flexible retrofit installation of outlet sockets possible
- 90° bend for the transition between wall and suspended ceiling
- Non-flame propagating according to EN 61386-1

Multi-media conduit

Multi-media conduit set



- Comprehensive range of accessories available
- Cables with plugs can be pulled in
- Cables can be replaced at a later point in time
- Temperature range from -5 °C to +90 °C
- Material: polyolefin
- Installation depths of only 6 cm (approx.)
- Retrofit outlet socket installation possible

Delivery includes

- 1.5 m set:** 1.5 m oval conduit, 2 outlet sockets, 2 end caps
- 2 x 1.5 m set:** 2 x 1.5 m oval conduit, 2 outlet sockets, 2 end caps, 1 coupling

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	Packing unit [pcs.]	Pieces per box [PU]	Colour
29410092	1.5	92/50	82/40	1.5	1	30	grey
29411092	2 x 1.5	92/50	82/40	2 x 1.5	1	15	

Multi-media conduit



- Comprehensive range of accessories available
- Cables with plugs can be pulled in
- Cables can be replaced at a later point in time
- Temperature range from -5 °C to +90 °C
- Material: polyolefin
- Installation depths of only 6 cm (approx.)
- Retrofit outlet socket installation possible
- Can be expanded as required thanks to MMR coupling



Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Length [m]	Packing unit [pcs.]	Colour
29412092	2 x 2	92/50	82/40	2 x 2	1	grey

For suitable accessories, please refer to the Multi-media conduit accessories section (page 25).

Multi-media conduit accessories

Multi-media conduit end cap



- End cap for multi-media conduits
- Material: PE
- To dust-proof seal the ends of conduits

Cat. no.	Type	Width [mm]	Height [mm]	Length [mm]	Packing unit [pcs.]	Colour
29490292	MMR-E	99.0	55.0	31.0	1	black

Multi-media conduit coupling



- Coupling for multi-media conduits
- Material: PE
- To connect multi-media conduits
- To connect 90° multi-media conduit bends

Cat. no.	Type	Width [mm]	Height [mm]	Length [mm]	Packing unit [pcs.]	Colour
29451292	MMR-M	99.0	55.0	60.0	1	black

Multi-media-conduit 90° bend



- 90° multi-media conduit bend
- Material: polyolefin
- Easy installation in corners possible

Cat. no.	Type	Width [mm]	Height [mm]	Length [mm]	Packing unit [pcs.]	Colour
29460292	MMR-B	92.0	190.0	190.0	1	grey

Multi-media conduit outlet socket



- Outlet socket for multi-media conduits
- Material: ABS
- Outlet for wires and cables
- Retrofit installation possible
- For installation in 60 mm bore holes

Cat. no.	Type	Width [mm]	Height [mm]	Packing unit [pcs.]	Colour
29495260	MMR-A	72.0	25.0	1	white



Straight length plastic conduits

- High degree of dimensional stability: No sagging of the conduits if installation spacings have been adhered to
- Non-flame propagating according to EN 61386-1
- Comprehensive range of accessories

Straight length plastic conduits

isofix-EL-F

22211



- Rigid straight length plastic conduit with coupling
- Light compressive strength
- Light impact strength
- Temperature range from -5 °C to +60 °C
- Material: PVC-U
- Corrosion-resistant

EN 61386-21

Minimum compressive strength:
320 N/5 cm

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Length [m]	Colour
22110016	16	16.0	14.3	111	6.7	7992	3	light grey
22110020	20	20.0	18.3	111	9.5	4995	3	
22110025	25	25.0	22.6	57	6.9	3135	3	
22110032	32	32.0	29.3	57	9.0	2052	3	
22110040	40	40.0	37.1	21	4.7	1407	3	
22110050	50	50.0	46.8	21	6.4	798	3	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Straight length plastic conduit accessories section (pages 30–31).

FPKu®-EM-F

33411



- Rigid straight length plastic conduit with coupling
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: PVC-U
- Corrosion-resistant

EN 61386-21

Minimum compressive strength:
750 N/5 cm

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Length [m]	Colour
22210016	16	16.0	13.4	111	9.5	7992	3	light grey
22210020	20	20.0	17.1	111	12.3	4995	3	
22210025	25	25.0	21.7	57	8.9	3135	3	
22210032	32	32.0	28.6	57	12.0	2052	3	
22210040	40	40.0	36.0	21	6.3	1407	3	
22210050	50	50.0	46.1	21	8.4	798	3	
22210063	63	63.0	58.8	21	12.2	504	3	
22220020	20	20.0	17.1	74	8.1	3330	2	light grey
22220025	25	25.0	21.7	74	11.2	2072	2	
22220032	32	32.0	28.6	38	8.0	1368	2	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Straight length plastic conduit accessories section (pages 30–31).

Straight length plastic conduits

FPKu®-EM-F – 2 m set

33411



- Rigid straight length plastic conduit with coupling
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: PVC-U
- Incl. 100 clipfix clamps
- Corrosion-resistant

EN 61386-21

Minimum compressive strength:
750 N/5 cm

Cat. no.	Type	In bundles of [m]	clipfix [pcs.]	Bundle weight [kg]	Length [m]	Colour
22221020	20	74	100	8.5	2	light grey
22221025	25	74	100	11.8	2	

FPKu®-ES-F

43211



- Rigid straight length plastic conduit with coupling
- Heavy compressive strength
- Medium impact strength
- Temperature range from -5 °C to +60 °C
- Material: PVC-U
- For highest mechanical stress
- With reinforced walls
- Corrosion-resistant

EN 61386-21

Minimum compressive strength:
1250 N/5 cm

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
22310020	20	20.0	16.6	57	7.7	3	light grey
22310025	25	25.0	21.2	57	10.4	3	
22310032	32	32.0	27.9	21	5.5	3	
22310040	40	40.0	35.3	21	7.4	3	
22310050	50	50.0	45.4	21	10.2	3	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Straight length plastic conduit accessories section (pages 30–31).

Straight length plastic conduit accessories

SBSKu-EM



- Plastic push-fit bend
- With one pre-moulded coupling
- Material: PVC-U
- For isofix-EL-F, FPKu-EM-F

Cat. no.	Type	Packing unit [pcs.]	Colour
22260016	16	50	light grey
22260020	20	50	
22260025	25	50	
22260032	32	50	
22260040	40	25	
22260050	50	10	
22260063	63	5	

SBSKu-ES



- Plastic push-fit bend
- With one pre-moulded coupling
- Material: PVC-U
- For FPKu-ES-F

Cat. no.	Type	Packing unit [pcs.]	Colour
22360020	20	25	light grey
22360025	25	25	
22360032	32	25	
22360040	40	25	
22360050	50	10	

SMSKu-E



- Plastic push-fit coupling
- With internal limit stop
- Material: PVC-U
- For isofix-EL-F, FPKu-EM-F and FPKu-ES-F

Cat. no.	Type	Packing unit [pcs.]	Colour
22250016	16	50	light grey
22250020	20	100	
22250025	25	100	
22250032	32	50	
22250040	40	25	
22250050	50	10	
22250063	63	5	

Straight length plastic conduit accessories

FRVS-E



- Conduit blanking plug
- Sealing at the construction site
- To protect unused conduits
- Material: PE
- Five identification plates included per packing unit
- For all corrugated and straight length conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25970016	16	100	red
25970020	20	100	green
25970025	25	100	purple
25970032	32	50	blue
25970040	40	50	yellow
25970050	50	25	green
25970063	63	10	purple

Identification plate



- For FRVS-E
- With large labelling surface
- Material: PE
- Push-fit to the FRVS-E lug

Cat. no.	Type	Packing unit [pcs.]	Colour
15971000	–	100	white

clipfix



- Plastic clamp
- Type 40–63 incl. clipsib safety brackets
- Material: PP
- For isofix-EL-F, FPKu-EM-F and FPKu-ES-F

Cat. no.	Type	Packing unit [pcs.]	Colour
22370016	16	100	light grey
22370020	20	100	
22370025	25	100	
22370032	32	100	
22370040	40	50	
22370050	50	25	
22370063	63	25	

Installation spacings

Installation spacings of clipfix clamps for rigid plastic conduits, spacing in cm.

Type	clipfix			clipfix-H0			clipfix-UV		
Temp. [°C]	+25	+40	+50	+25	+40	+50	+25	+40	+50
16	60	50	45	80	60	55	80	60	55
20	60	50	45	80	60	55	80	60	55
25	70	50	40	80	60	55	80	60	55
32	60	40	30	80	55	45	80	55	45
40*	90	80	60	90	80	60	90	80	60
50*	90	80	60	90	80	60	90	80	60
63*	90	80	60	90	80	60	–	–	–

* In connection with clipsib plastic safety bracket. The data provided is for information purposes only. Please reduce the clamp spacings by 10 cm for isofix-EL-F.



Halogen-free conduits – Low Smoke

- Halogen-free according to EN 50642
- Non-flame propagating according to EN 61386-1
- High temperature resistance
- Minimisation of consequential fire damage
- Comprehensive range of accessories

Halogen-free conduits – Low Smoke

FFKu®-EL-F-LS0H Low Smoke

23232



EN 61386-22

Minimum compressive strength:
320 N/5 cmHalogen-free according to EN 50642
Determination of smoke gas density
according to EN 61034-2

- Pliable corrugated plastic conduit
- Light compressive strength
- Medium impact strength
- Temperature range from -5 °C to +105 °C
- Material: special plastic
- High temperature resistant
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
24110016	16	16.0	10.1	100	3.2	2800	60	black
24110020	20	20.0	14.4	100	5.0	2000	80	
24110025	25	25.0	18.5	50	3.3	1200	100	
24110032	32	32.0	24.5	50	4.5	800	130	
24110040	40	40.0	31.5	25	3.0	500	170	
24110050	50	50.0	39.5	25	3.4	400	200	
24110063	63	63.0	50.5	25	4.8	150	250	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

FFKu®-EM-F-LS0H Low Smoke

33232



EN 61386-22

Minimum compressive strength:
750 N/5 cmHalogen-free according to EN 50642
Determination of smoke gas density
according to EN 61034-2

- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -5 °C to +105 °C
- Material: special plastic
- High temperature resistant
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
24210016**	16	16.0	10.1	100	4.7	2800	70	black
24210020	20	20.0	14.0	100	6.0	2000	90	
24210025	25	25.0	18.0	50	4.6	1200	110	
24210032	32	32.0	23.8	50	6.4	800	130	
24210040**	40	40.0	30.6	25	4.8	500	170	
24210050**	50	50.0	38.6	25	5.3	400	220	
24210063**	63	63.0	49.6	25	7.0	150	300	
24216016	16 (5/8")	15.8	10.3	50	2.8	70	2800	light grey
24216020	20	20.0	14.0	50	4.4	90	2000	
24216025	25	25.0	18.0	50	5.5	110	1200	
24216032**	32	32.0	23.8	50	8	130	800	
24216040**	40	40.0	30.6	25	5.3	170	500	
24216050**	50	50.0	38.6	25	6.6	220	400	
24216063**	63	63.0	49.6	25	7.9	300	150	

* Production-related dimensional tolerances acc. to EN 60423.

** Available on request.

For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

Halogen-free conduits – Low Smoke

FFKuS®-EM-F-LS0H Low Smoke
33532


- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -45 °C to +105 °C
- Material: special plastic
- Low friction inner surface for types 20 and 25
- High temperature resistant
- Cold impact strength in extreme temperatures

EN 61386-22

 Minimum compressive strength:
750 N/5 cm

 Halogen-free according to EN 50642
Determination of smoke gas density
acc. to EN 61034-2


Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25510016	16	16.0	10.3	50	3.4	2000	70	black
25510020**	20	20.0	13.6	50	4.7	1400	90	
25510025**	25	25.0	17.4	50	6.3	1200	110	
25510032	32	32.0	23.1	25	4.7	700	130	
25510040	40	40.0	29.8	25	6.8	200	170	
25510050	50	50.0	38.8	25	8.5	150	220	
25510063	63	63.0	48.4	25	11.0	125	300	

* Production-related dimensional tolerances acc. to EN 60423.

** With inner surface.

For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

Halogen-free conduits – Low Smoke

FPKu®-EL-F-H0

22521



- Rigid straight length plastic conduit with coupling
- Light compressive strength
- Light impact strength
- Temperature range from -45 °C to +90 °C
- Material: special plastic
- Cold impact strength in extreme temperatures
- Corrosion-resistant

EN 61386-21
Minimum compressive strength:
750 N/5 cm
Halogen-free according to EN 50642



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Length [m]	Colour
23110016	16	16.0	13.5	111	6.4	7992	3	light grey
23110020	20	20.0	17.4	111	8.6	4995	3	
23110025	25	25.0	22.4	57	5.7	3135	3	
23110032	32	32.0	28.9	57	8.5	2052	3	
23110040	40	40.0	36.8	21	4.0	1407	3	
23110050	50	50.0	46.1	21	6.6	798	3	
23110063**	63	63.0	58.8	21	8.0	504	3	

* Production-related dimensional tolerances acc. to EN 60423.
** Available on request.
For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

FPKu®-EM-F-H0

33521



- Rigid straight length plastic conduit with coupling
- Medium compressive strength
- Medium impact strength
- Temperature range from -45 °C to +90 °C
- Material: special plastic
- Cold impact strength in extreme temperatures
- Corrosion-resistant

EN 61386-21
Minimum compressive strength:
750 N/5 cm
Halogen-free according to EN 50642



Circuit integrity E30/E60/E90
These products are suited for the installation of circuit integrity cables and have been tested in the system. See page 92/Circuit integrity.

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Length [m]	Colour
23210016	16	16.0	13.0	111	7.4	7992	3	light grey
23210020	20	20.0	16.8	111	10.9	4995	3	
23210025	25	25.0	21.5	57	7.5	3135	3	
23210032	32	32.0	28.0	57	10.3	2052	3	
23210040	40	40.0	35.5	21	5.2	1407	3	
23210050	50	50.0	45.2	21	7.6	798	3	
23210063	63	63.0	57.8	21	10.1	504	3	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

Halogen-free conduits – Low Smoke

FPKu®-EM-F-LS0H Low Smoke
33541


- Rigid straight length plastic conduit with coupling
- Medium compressive strength
- Medium impact strength
- Temperature range from -45 °C to +120 °C
- Material: special plastic
- High temperature resistant
- Cold impact strength in extreme temperatures
- Corrosion-resistant

EN 61386-21

 Minimum compressive strength:
750 N/5 cm

 Halogen-free according to EN 50642
Determination of smoke gas density
according to EN 61034-2

**Circuit integrity
E30/E60/E90**

 These products are suited for the
installation of circuit integrity cables and
have been tested in the system.
See page 92/Circuit integrity.

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Pallet content [m]	Length [m]	Colour
23310016	16	16.0	13.0	111	7.4	7992	3	light grey
23310020	20	20.0	16.8	111	10.3	4995	3	
23310025	25	25.0	21.5	57	7.1	3135	3	
23310032	32	32.0	28.0	57	9.9	2052	3	
23310040	40	40.0	35.5	21	5.0	1407	3	
23310050	50	50.0	45.2	21	7.5	798	3	
23310063	63	63.0	57.8	21	10.1	504	3	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

Halogen-free conduit accessories

SBSKu-EM-H0



- Plastic push-fit bend
- Halogen-free
- Material: special plastic
- For FPKu-EL-F-H0 and FPKu-EM-F-H0

Cat. no.	Type	Packing unit [pcs.]	Colour
23260016	16	25	light grey
23260020	20	25	
23260025	25	25	
23260032	32	25	
23260040	40	25	
23260050	50	10	
23260063	63	5	

SBSKu-EM-LS0H



- Plastic push-fit bend
- Halogen-free and low smoke
- Material: special plastic
- For FPKu-EM-F-LS0H

Cat. no.	Type	Packing unit [pcs.]	Colour
23360016	16	25	light grey
23360020	20	25	
23360025	25	25	
23360032	32	25	
23360040	40	25	
23360050	50	10	
23360063	63	5	

SMSKu-ER



- Plastic push-fit coupling
- Halogen-free
- Material: PA66
- For all flexible conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25940020	20	50	black
25940025	25	50	

Halogen-free conduit accessories

SMSKu-E-H0



■ Plastic push-fit coupling

■ Halogen-free

■ Material: special plastic

■ For FPKu-EL-F-H0, FPKu-EM-F-H0, FPKu-EM-F-LS0H

Cat. no.	Type	Packing unit [pcs.]	Colour
23150016	16	25	light grey
23150020	20	50	
23150025	25	50	
23150032	32	25	
23150040	40	25	
23150050	50	10	
23150063	63	5	

RMKu-E-H0



■ Plastic push-fit coupling

■ Halogen-free

■ Material: special plastic

■ For all halogen-free corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25910016	16	25	black
25910020	20	50	
25910025	25	50	
25910032	32	25	
25910040	40	25	
25910050	50	10	

clipfix-H0



■ Plastic clamp

■ Halogen-free

■ Type 40–63 incl. clipsib safety brackets

■ Material: special plastic

■ For all halogen-free corrugated conduits

■ For FPKu-EL-F-H0, FPKu-EM-F-H0, FPKu-EM-F-LS0H

Cat. no.	Type	Packing unit [pcs.]	Colour
23170016	16	50	light grey
23170020	20	50	
23170025	25	50	
23170032	32	50	
23170040	40	25	
23170050	50	25	
23170063	63	10	



UV-stabilised conduits

- Plastic straight length and corrugated conduits
- 10 years of guaranteed UV-stability
- UV-stability according to EN ISO 4892-1
- Non-flame propagating according to EN 61386-1
- Comprehensive range of accessories

UV-stabilised conduits

FFKu®-EM-F-UV Highspeed

33412



EN 61386-22
Minimum compressive strength:
750 N/5 cm



- Pliable corrugated plastic conduit
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: modified PVC
- Highspeed technology
- UV-resistant for up to 10 years
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25430016	16	16.0	10.9	50	2.4	2100	70	black
25430020	20	20.0	14.2	50	3.3	1500	90	
25430025	25	25.0	18.6	50	4.8	1200	110	
25430032	32	32.0	24.3	25	3.1	600	130	
25430040	40	40.0	31.3	25	4.2	400	170	
25430050	50	50.0	40.0	25	5.5	400	220	
25430063	63	63.0	50.5	25	7.9	150	300	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the sections UV-stabilised conduit accessories (pages 38–39) and Corrugated plastic conduit accessories (pages 19–22).

FFKuS®-ES-F-UV Highspeed

43412



EN 61386-22
Minimum compressive strength:
1250 N/5 cm



- Pliable corrugated plastic conduit
- Heavy compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: modified PVC
- Highspeed technology
- UV-resistant for up to 10 years
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius ≥ [mm]	Colour
25410016	16	16.0	10.5	50	4.8	1600	110	black
25410020	20	20.0	13.7	50	7.3	450	140	
25410025	25	25.0	18.4	50	8.7	400	160	
25410032	32	32.0	24.1	25	6.3	225	180	
25410040	40	40.0	30.9	25	8.5	200	200	
25410050	50	50.0	39.5	25	11.0	150	300	
25410063	63	63.0	50.3	25	14.8	125	400	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the sections UV-stabilised conduit accessories (pages 38–39) and Corrugated plastic conduit accessories (pages 19–22).

UV-stabilised conduits

FPKu®-ES-F-UV
43411


EN 61386-21
Minimum compressive strength:
1250 N/5 cm



- Rigid straight length plastic conduit with coupling
- Heavy compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: modified PVC
- UV-resistant for up to 10 years
- For highest mechanical stress
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
22630020	20	20.0	16.6	57	7.7	3	light grey
22630025	25	25.0	21.2	57	10.4	3	
22630032	32	32.0	27.9	21	5.5	3	
22630040	40	40.0	35.3	21	7.4	3	
22630050	50	50.0	45.4	21	10.2	3	
22610020	20	20.0	16.6	57	7.7	3	black
22610025	25	25.0	21.2	57	10.4	3	
22610032	32	32.0	27.9	21	5.5	3	
22610040	40	40.0	35.3	21	7.4	3	
22610050	50	50.0	45.4	21	10.2	3	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the UV-stabilised conduit accessories section (pages 38–39).

FPKu®-EM-F-UV
33411


EN 61386-21
Minimum compressive strength:
750 N/5 cm



- Rigid straight length plastic conduit with coupling
- Medium compressive strength
- Medium impact strength
- Temperature range from -25 °C to +60 °C
- Material: modified PVC
- UV-resistant for up to 10 years
- Packed in resealable cardboard boxes
- Corrosion-resistant

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
22520116	16	16.0	13.4	70	6.0	2	white
22520120	20	20.0	17.1	40	4.4	2	
22520125	25	25.0	21.7	30	4.7	2	
22520132	32	32.0	28.6	16	3.4	2	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the UV-stabilised conduit accessories section (pages 38–39).

UV-stabilised conduit accessories

SBSKu-ES-UV



- Plastic push-fit bend
- UV-stabilised
- Material: modified PVC
- For FPKu-ES-F-UV

Cat. no.	Type	Packing unit [pcs.]	Colour
22663020	20	25	light grey
22663025	25	25	
22663032	32	25	
22663040	40	25	
22663050	50	10	
22661020	20	25	black
22661025	25	25	
22661032	32	25	
22661040	40	25	
22661050	50	10	

SBSKu-EM-UV



- Plastic push-fit bend
- UV-stabilised
- Material: modified PVC
- For FPKu-EM-F-UV

Cat. no.	Type	Packing unit [pcs.]	Colour
22562016	16	10	white
22562020	20	10	
22562025	25	10	
22562032	32	10	

UV-stabilised conduit accessories

SMSKu-E-UV



■ Plastic push-fit coupling

■ UV-stabilised

■ Material: modified PVC

■ For FPKu-ES-F-UV and FPKu-EM-F-UV

Cat. no.	Type	Packing unit [pcs.]	Colour
22553020	20	25	light grey
22553025	25	25	
22553032	32	25	
22553040	40	25	
22553050	50	10	
22551016	16	25	black
22551020	20	25	
22551025	25	25	
22551032	32	25	
22551040	40	25	
22551050	50	10	
22551063	63	5	
22552016	16	25	white
22552020	20	25	
22552025	25	25	
22552032	32	25	

clipfix-UV



■ Plastic clamp

■ UV-stabilised

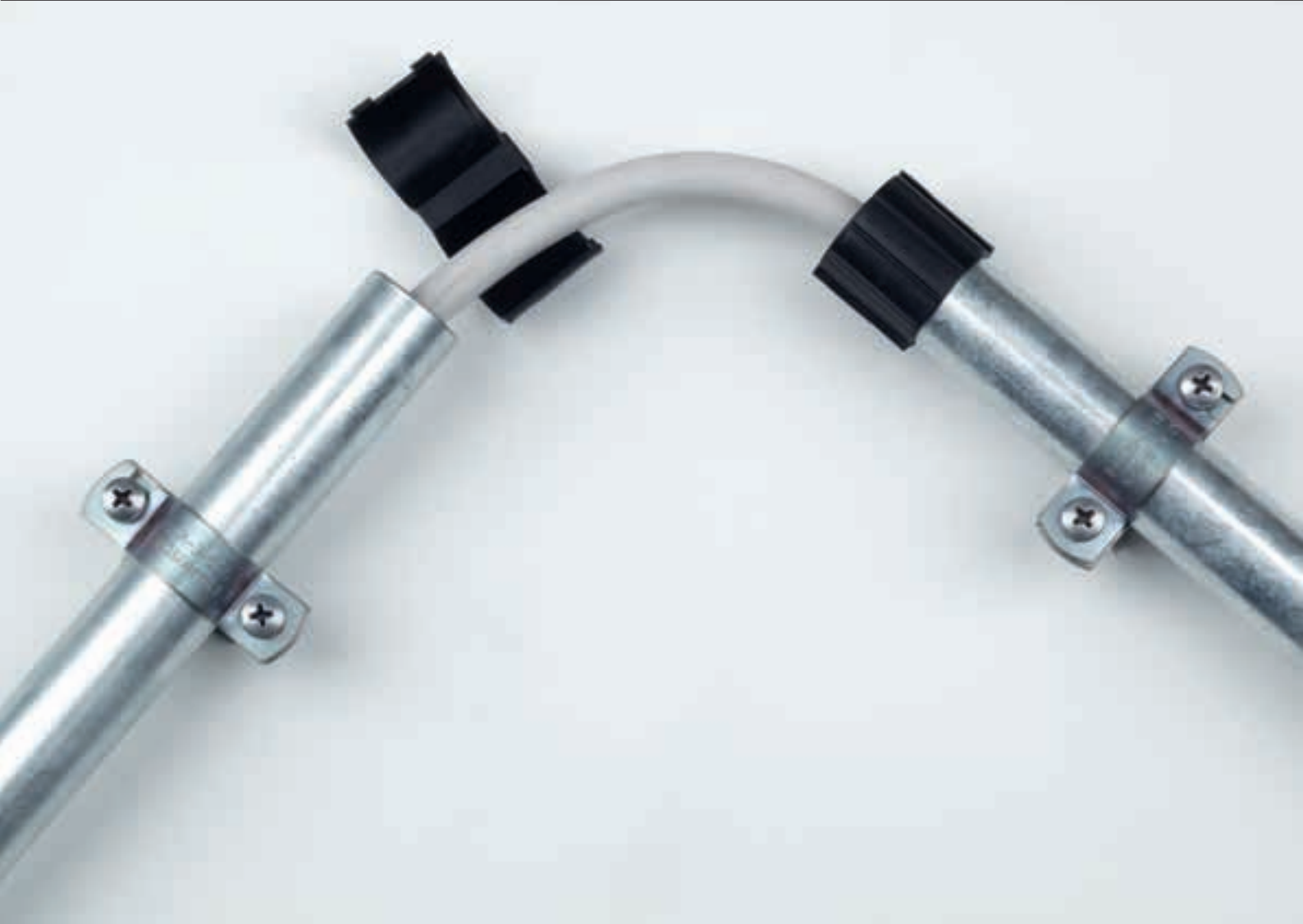
■ Type 40–50 incl. clipsib safety brackets

■ Material: PP

■ For all corrugated conduits

■ For FPKu-ES-F-UV and FPKu-EM-F-UV

Cat. no.	Type	Packing unit [pcs.]	Colour
22573020	20	50	light grey
22573025	25	50	
22573032	32	50	
22573040	40	25	
22573050	50	25	
22571016	16	50	black
22571020	20	50	
22571025	25	50	
22571032	32	50	
22571040	40	25	
22571050	50	25	
22572016	16	50	white
22572020	20	50	
22572025	25	50	
22572032	32	50	



Metal conduits

- Highest possible protection against mechanical and chemical influences
- High degree of protection against corrosion and UV-radiation outdoors for up to 30 years
- Extremely high temperature resistance
- Suitable for all exposed installations
- Comprehensive range of accessories
- Circuit integrity

Varnished steel conduits

Staro Steck-ES

44561



EN 61386-21
Minimum compressive strength:
1250 N/5 cm



**Circuit integrity
E30/E60/E90**
These products are suited for the
installation of circuit integrity cables and
have been tested in the system.
See page 92/Circuit integrity.



- Rigid metal conduit, without coupling
 - Heavy compressive strength
 - High impact strength
 - Temperature range from -45 °C to +250 °C
- Material: mild steel, rolled
 - Surfaces: baked finish
 - For high mechanical strength applications
 - Medium corrosion resistance

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20310016	16	16.0	13.3	30	11.0	3	black
20310020	20	20.0	17.3	30	14.1	3	
20310025	25	25.0	22.1	30	21.9	3	
20310032	32	32.0	29.0	21	17.8	3	
20310040	40	40.0	37.0	15	16.5	3	
20310050	50	50.0	47.0	15	22.0	3	
20310063	63	63.0	59.9	15	25.9	3	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the sections Varnished steel conduit accessories (pages 49–51),
Metal conduit accessories (page 56) and Metal conduit accessories – plastic (page 57).

Staro Gewinde-ES

55561



EN 61386-21)
Minimum compressive strength:
4000 N/5 cm



**Circuit integrity
E30/E60/E90**
These products are suited for the
installation of circuit integrity cables and
have been tested in the system.
See page 92/Circuit integrity.



- Rigid metal conduit, one threaded coupling
 - Very heavy compressive strength
 - Very high impact strength
 - Temperature range from -45 °C to +250 °C
- Material: mild steel, rolled
 - Surfaces: baked finish
 - For extreme mechanical strength applications
 - Medium corrosion resistance

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20210016	16	16.0	12.7	30	14.1	3	black
20210020	20	20.0	16.3	30	20.7	3	
20210025	25	25.0	21.3	30	27.5	3	
20210032	32	32.0	28.2	21	24.6	3	
20210040	40	40.0	36.2	15	22.5	3	
20210050	50	50.0	46.2	15	28.2	3	
20210063	63	63.0	58.7	15	40.2	3	

* Production-related dimensional tolerances acc. to EN 60423; threads acc. to EN 60423, pitch x1.5 mm.
For suitable accessories, please refer to the sections Varnished steel conduit accessories (pages 49–51),
Metal conduit accessories (page 56) and Metal conduit accessories – plastic (page 57).

Varnished steel conduit accessories

SMS-E



- Steel push-fit coupling
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Steck-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20350016	16	25	black; burnished
20350020	20	50	
20350025	25	50	
20350032	32	50	
20350040	40	25	
20350050	50	10	
20350063	63	5	

SBS-E



- 90° steel push-fit bend, without coupling
- Material: mild steel, rolled
- Extreme temperature resistance
- For Staro Steck-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20360016	16	15	black; varnished
20360020	20	25	
20360025	25	25	
20360032	32	20	
20360040	40	15	
20360050	50	5	
20360063	63	3	

SES-E



- Steel push-fit end sleeve
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Steck-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20390016	16	25	black; burnished
20390020	20	50	
20390025	25	50	
20390032	32	50	
20390040	40	25	
20390050	50	10	
20390063	63	5	

Varnished steel conduit accessories

SM-E



- Threaded steel coupling
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20250016	16	25	black; burnished
20250020	20	50	
20250025	25	50	
20250032	32	50	
20250040	40	25	
20250050	50	10	
20250063	63	5	

SB-E



- 90° threaded steel bend, one coupling
- Material: mild steel, rolled
- Tight and high tensile strength connection
- For Staro Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20260016	16	15	black; varnished
20260020	20	25	
20260025	25	25	
20260032	32	20	
20260040	40	15	
20260050	50	5	
20260063	63	3	

SE-E



- Threaded steel end sleeve
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20290016	16	25	black; burnished
20290020	20	50	
20290025	25	50	
20290032	32	50	
20290040	40	25	
20290050	50	10	
20290063	63	5	

Discontinued item
While supplies last!

Alternative items: SES-E, E-Ku-E, E-Ku-ET, E-Ku-E-UV; E-Ku-ET-UV

Varnished steel conduit accessories

SN-E



Discontinued item
While supplies last!

- Threaded steel nipple
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20270016	16	25	black; burnished
20270020	20	50	
20270025	25	50	
20270032	32	50	
20270040	40	25	
20270050	50	10	
20270063	63	5	

Alternative item: SN-E-V

SGR-E



Discontinued item
While supplies last!

- Threaded steel ring
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20280016	16	25	black; burnished
20280020	20	50	
20280025	25	50	
20280032	32	50	
20280040	40	25	
20280050	50	10	
20280063	63	5	

Alternative item: SGR-E-V

SSG-E-V



- Steel spacing bracket
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For hot-galvanised, varnished steel conduit

Cat. no.	Type	Packing unit [pcs.]	Colour
20570016	16	50	grey; zinc-nickel
20570020	20	50	
20570025	25	50	
20570032	32	25	
20570040	40	25	
20570050	50	25	
20570063	63	20	

Galvanised steel conduits

Staro Steck-ES-V

44571



- Rigid metal conduit, without coupling
- Heavy compressive strength
- High impact strength
- Temperature range from -45 °C to +400 °C
- Material: mild steel, rolled
- Surfaces: hot-galvanised acc. to EN ISO 1461
- For high mechanical strength applications
- High corrosion resistance

EN 61386-21
Minimum compressive strength:
1250 N/5 cm



**Circuit integrity
E30/E60/E90**
These products are suited for the
installation of circuit integrity cables and
have been tested in the system.
See page 92/Circuit integrity.

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20510016	16	16.0	13.3	30	12.2	3	silvery
20510020	20	20.0	17.3	30	15.9	3	
20510025	25	25.0	22.1	30	24.3	3	
20510032	32	32.0	29.0	21	19.6	3	
20510040	40	40.0	37.0	15	18.3	3	
20510050	50	50.0	47.0	15	23.6	3	
20510063	63	63.0	59.9	15	28.5	3	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the sections Varnished steel conduit accessories (pages 49–51),
Metal conduit accessories (page 56) and Metal conduit accessories – plastic (page 57).

Staro Gewinde-ES-V

55571



- Rigid metal conduit, one screwed-on threaded coupling
- Very heavy compressive strength
- Very high impact strength
- Temperature range from -45 °C to +400 °C
- Material: mild steel, rolled
- Surfaces: hot-galvanised acc. to EN ISO 1461
- For extreme mechanical strength applications
- High corrosion resistance

EN 61386-21
Minimum compressive strength:
4000 N/5 cm



**Circuit integrity
E30/E60/E90**
These products are suited for the
installation of circuit integrity cables and
have been tested in the system.
See page 92/Circuit integrity.

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20410016	16	16.0	12.7	30	15.3	3	silvery
20410020	20	20.0	16.3	30	22.5	3	
20410025	25	25.0	21.3	30	30.0	3	
20410032	32	32.0	28.2	21	26.6	3	
20410040	40	40.0	36.2	15	24.7	3	
20410050	50	50.0	46.2	15	30.2	3	
20410063	63	63.0	58.7	15	42.4	3	

* Production-related dimensional tolerances acc. to EN 60423; threads acc. to EN 60423, pitch x1.5 mm.
For suitable accessories, please refer to the sections Varnished steel conduit accessories (pages 49–51),
Metal conduit accessories (page 56) and Metal conduit accessories – plastic (page 57).

Galvanised steel conduit accessories

SMS-E-V



- Steel push-fit coupling
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Steck-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20550016	16	25	grey; zinc-nickel
20550020	20	50	
20550025	25	50	
20550032	32	50	
20550040	40	25	
20550050	50	10	
20550063	63	5	

SBS-E-V



- 90° steel push-fit bend, without coupling
- Material: mild steel, rolled
- Extreme temperature resistance
- For Staro Steck-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20560016	16	15	silvery; hot-galvanised
20560020	20	25	
20560025	25	25	
20560032	32	20	
20560040	40	15	
20560050	50	5	
20560063	63	3	

SES-E-V



- Steel push-fit end sleeve
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Steck-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20590016	16	25	grey; zinc-nickel
20590020	20	50	
20590025	25	50	
20590032	32	50	
20590040	40	25	
20590050	50	10	
20590063	63	5	

Galvanised steel conduit accessories

SM-E-V



- Threaded steel coupling
- Material: mild steel, rolled
- For Staro Gewinde-ES-V
- For FFS-ES and FFSK-ES-UV
- Circuit integrity E30 / E60 / E90, see page 92

Cat. no.	Type	Packing unit [pcs.]	Colour
20450016	16	25	grey; zinc-nickel
20450020	20	50	
20450025	25	50	
20450032	32	50	
20450040	40	25	
20450050	50	10	
20450063	63	5	

SB-E-V



- 90° threaded steel bend, one coupling
- Material: mild steel, rolled
- Tight and high tensile strength connection
- For Staro Gewinde-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20460016	16	15	silvery; hot-galvanised
20460020	20	25	
20460025	25	25	
20460032	32	20	
20460040	40	15	
20460050	50	5	
20460063	63	3	

SE-E-V



- Threaded steel end sleeve
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20490016	16	25	grey; zinc-nickel
20490020	20	50	
20490025	25	50	
20490032	32	50	
20490040	40	25	
20490050	50	10	
20490063	63	5	

Galvanised steel conduit accessories

SN-E-V



- Threaded steel nipple
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20470016	16	25	grey; zinc-nickel
20470020	20	50	
20470025	25	50	
20470032	32	50	
20470040	40	25	
20470050	50	10	
20470063	63	5	

SGR-E-V



- Threaded steel ring
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For Staro Gewinde-ES-V

Cat. no.	Type	Packing unit [pcs.]	Colour
20480016	16	25	grey; zinc-nickel
20480020	20	50	
20480025	25	50	
20480032	32	50	
20480040	40	25	
20480050	50	10	
20480063	63	5	

SSG-E-V



- Steel spacing bracket
- Material: mild steel, rolled
- Circuit integrity E30 / E60 / E90, see page 92
- For hot-galvanised, varnished steel conduit

Cat. no.	Type	Packing unit [pcs.]	Colour
20570016	16	50	grey; zinc-nickel
20570020	20	50	
20570025	25	50	
20570032	32	25	
20570040	40	25	
20570050	50	25	
20570063	63	20	

Metal conduit accessories

SMK-E



- Quick-connect coupling
- For all steel and aluminium conduits
- High tensile strength connection, IP67
- Material: brass
- For FFS-ES and FFSK-ES-UV

Cat. no.	Type	Length [mm]	Packing unit [pcs.]	Colour
20555016	16	58	5	silvery; nickel-plated
20555020	20	58	5	
20555025	25	58	5	

SMG-E



- Schnellmontage-Gewindekupplung
- Zugfeste Verbindung, IP67
- Material: Messing
- Für alle Stahl- und Aluminiumrohre

Cat. no.	Type	Length [mm]	Thread m. x 1.5	Packing unit [pcs.]	Colour
20575016	16	45	16	5	silvery; nickel-plated
20575020	20	45	20	5	
20575025	25	45	25	5	

Metal conduit accessories – plastic

E-Ku-ET



- Two-piece plastic end sleeve
- Material: PE-HD
- Retrofit straight length conduit edge protection
- For all rigid straight length conduits

Art.-Nr.	Type	Width [mm]	Height [mm]	Length [mm]	Pack- ing unit [pcs.]	Pack- ing unit [kg]	Colour
25997020	20	22.0	15.0	51.5	100	0.210	grey; semi-gloss
25997025	25	27.0	17.5	62.0	100	0.310	
25997032	32	32.0	21.0	76.0	50	0.225	
25997040	40	34.0	25.0	92.0	50	0.295	
25997050	50	44.0	30.0	112.0	25	0.248	

E-Ku-ET-UV



- Two-piece plastic end sleeve
- Material: PE-HD
- Retrofit straight length conduit edge protection
- For all rigid straight length conduits
- UV-stabilised for up to 10 years

Art.-Nr.	Type	Width [mm]	Height [mm]	Length [mm]	Pack- ing unit [pcs.]	Pack- ing unit [kg]	Colour
25998020	20	22.0	15.0	51.5	100	0.210	black; semi-gloss
25998025	25	27.0	17.5	62.0	100	0.310	
25998032	32	32.0	21.0	76.0	50	0.225	
25998040	40	34.0	25.0	92.0	50	0.295	
25998050	50	44.0	30.0	112.0	25	0.248	

E-Ku-E



- Plastic end sleeve
- Material: PE-LD
- Straight length conduit edge protection
- For all rigid straight length conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
25995016	16	100	grey; semi-gloss
25995020	20	100	
25995025	25	100	
25995032	32	50	
25995040	40	50	
25995050	50	25	
25995063	63	20	

E-Ku-E-UV



- Plastic end sleeve
- Material: PE-LD
- Straight length conduit edge protection
- For all rigid straight length conduits
- UV-stabilised for up to 10 years

Cat. no.	Type	Packing unit [pcs.]	Colour
25996016	16	100	black; semi-gloss
25996020	20	100	
25996025	25	100	
25996032	32	50	
25996040	40	50	
25996050	50	25	
25996063	63	20	

Aluminium conduits

Alu Steck-ES

44561



- Rigid aluminium conduit, without coupling
- Heavy compressive strength
- High impact strength
- Temperature range from -45 °C to +250 °C
- Material: aluminium W3.3206
- Surfaces: matt-finished, extruded
- Good mechanical protection and light-weight
- High corrosion resistance

EN 61386-21
Minimum compressive strength:
1250 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20910016	16	16.0	13.5	30	3.5	3	aluminium grey
20910020	20	20.0	17.5	30	4.2	3	
20910025	25	25.0	22.4	30	6.8	3	
20910032	32	32.0	29.4	30	8.7	3	
20910040	40	40.0	37.4	15	5.5	3	
20910050	50	50.0	47.3	15	6.5	3	
20910063	63	63.0	60.2	15	9.7	3	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the sections Aluminium conduit accessories (pages 59–61) and Metal conduit accessories (page 56).

Alu Gewinde-ES

55561



- Rigid aluminium conduit, one screwed-on threaded coupling
- Very heavy compressive strength
- Very high impact strength
- Temperature range from -45 °C to +250 °C
- Material: aluminium W3.3206
- Surfaces: matt-finished, extruded
- High mechanical protection and lightweight
- High corrosion resistance

EN 61386-21
Minimum compressive strength:
4000 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
21010016	16	16.0	12.7	30	5.2	3	aluminium grey
21010020	20	20.0	16.5	30	7.6	3	
21010025	25	25.0	21.1	30	9.0	3	
21010032	32	32.0	28.4	30	11.7	3	
21010040	40	40.0	36.2	15	7.9	3	
21010050	50	50.0	46.2	15	9.9	3	
21010063	63	63.0	58.8	15	14.1	3	

* Production-related dimensional tolerances acc. to EN 60423; threads acc. to EN 60423, pitch x1.5 mm.

For suitable accessories, please refer to the sections Aluminium conduit accessories (pages 59–61) and Metal conduit accessories (page 56).

Aluminium conduit accessories

AMS-E



- Aluminium push-fit coupling
- High corrosion resistance

- Material: aluminium W3.3206
- For Alu Steck-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20950016	16	50	aluminium grey, silvery
20950020	20	50	
20950025	25	50	
20950032	32	50	
20950040	40	20	
20950050	50	20	
20950063	63	20	

ABS-E



- 90° aluminium push-fit bend, without coupling
- High corrosion resistance

- Material: aluminium W3.3206
- For Alu Steck-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20960016	16	15	aluminium grey, silvery
20960020	20	25	
20960025	25	25	
20960032	32	20	
20960040	40	15	
20960050	50	5	
20960063	63	3	

AES-E



- Aluminium push-fit end sleeve
- Edge protection

- Material: aluminium W3.3206
- For Alu Steck-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
20990016	16	25	aluminium grey, silvery
20990020	20	50	
20990025	25	50	
20990032	32	50	
20990040	40	25	
20990050	50	10	
20990063	63	5	

Aluminium conduit accessories

AMG-E



- Threaded aluminium coupling
- Tight and high tensile strength connection
- Material: aluminium W3.3206
- For Alu Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
21050016	16	50	aluminium grey, silvery
21050020	20	50	
21050025	25	50	
21050032	32	50	
21050040	40	20	
21050050	50	20	
21050063	63	20	

ABG-E



- 90° threaded aluminium bend, one coupling
- High corrosion resistance
- Material: aluminium W3.3206
- For Alu Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
21060016	16	15	aluminium grey, silvery
21060020	20	25	
21060025	25	25	
21060032	32	20	
21060040	40	15	
21060050	50	5	
21060063	63	3	

AEG-E



- Threaded aluminium end cap
- Edge protection
- Material: aluminium W3.3206
- For Alu Gewinde-ES

Cat. no.	Type	Packing unit [pcs.]	Colour
21090016	16	25	aluminium grey, silvery
21090020	20	50	
21090025	25	50	
21090032	32	50	
21090040	40	25	
21090050	50	10	
21090063	63	5	

Discontinued item
While supplies last!

Alternative items: AES-E, E-Ku-E, E-Ku-E-UV, E-Ku-ET, E-Ku-ET-UV

Aluminium conduit accessories

AKS-E



- Aluminium clamp
- Material: aluminium W3.3206
- Not recommended for overhead installation
- For all aluminium conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20970016	16	50	aluminium grey, silvery
20970020	20	50	
20970025	25	50	
20970032	32	50	
20970040	40	20	
20970050	50	20	
20970063	63	20	

ASG-E



- Aluminium spacing bracket
- Material: aluminium W3.3206
- Recommended for overhead installation
- For all aluminium conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20975016	16	50	aluminium grey, silvery
20975020	20	50	
20975025	25	50	
20975032	32	25	
20975040	40	25	
20975050	50	25	
20975063	63	20	

Stainless steel conduits

V4 Steck-ES

55571



- Rigid stainless steel conduit, without coupling
- Very heavy compressive strength
- Very high impact strength
- Temperature range from -45 °C to +400 °C
- Material: rolled stainless steel W1.4571
- Surfaces: glossy, brushed
- Very high corrosion resistance
- Application, e.g., in biogas plants, coastal outdoor facilities

EN 61386-21
Minimum compressive strength:
4000 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20814016	16	16.0	13.8	15	5.4	3	metallic
20814020	20	20.0	17.8	15	6.6	3	
20814025	25	25.0	22.6	15	10.2	3	
20814032	32	32.0	29.6	15	13.2	3	
20814040	40	40.0	37.4	9	9.9	3	
20814050	50	50.0	47.4	9	13.0	3	
20814063	63	63.0	59.8	9	20.7	3	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the Stainless steel conduit accessories section (pages 63–64).

V2 Steck-ES

55571



- Rigid stainless steel conduit, without coupling
- Very heavy compressive strength
- Very high impact strength
- Temperature range from -45 °C to +400 °C
- Material: rolled stainless steel W1.4301
- High corrosion resistance
- Application: food and beverage industry

EN 61386-21
Minimum compressive strength:
4000 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Length [m]	Colour
20810016	16	16.0	13.8	15	5.4	3	metallic
20810020	20	20.0	17.8	15	6.6	3	
20810025	25	25.0	22.6	15	10.2	3	
20810032	32	32.0	29.6	15	13.2	3	
20810040	40	40.0	37.4	9	9.9	3	
20810050	50	50.0	47.4	9	13.0	3	
20810063	63	63.0	59.8	9	20.7	3	

* Production-related dimensional tolerances acc. to EN 60423.
For suitable accessories, please refer to the Stainless steel conduit accessories section (pages 63–64).

Stainless steel conduit accessories

VMS-E



- Stainless steel push-fit coupling
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- For all stainless steel conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20850016	16	5	metallic; brushed
20850020	20	5	
20850025	25	5	
20850032	32	5	
20850040	40	3	
20850050	50	3	
20850063	63	3	

VBS-E



- 90° stainless steel push-fit bend, without coupling
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- For all stainless steel conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20860016	16	5	metallic; brushed
20860020	20	5	
20860025	25	5	
20860032	32	5	
20860040	40	3	
20860050	50	3	
20860063	63	3	

VES-E



- Stainless steel push-fit end sleeve
- Very high corrosion resistance, edge protection
- Material: V4A; 1.4571; AISI 316 TI
- For all stainless steel conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20890016	16	5	metallic; brushed
20890020	20	5	
20890025	25	5	
20890032	32	5	
20890040	40	3	
20890050	50	3	
20890063	63	3	

Stainless steel conduit accessories

VSG-E



- Stainless steel spacing bracket
- Very high corrosion resistance
- Material: V4A; 1.4571; AISI 316 TI
- For all stainless steel conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20870016	16	25	metallic; brushed
20870020	20	25	
20870025	25	25	
20870032	32	25	
20870040	40	10	
20870050	50	10	
20870063	63	10	

VMK-E



- Quick-connect coupling
- High tensile strength connection, IP67
- Material: V4A; 1.4404; AISI 316L
- For all stainless steel conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
20855016	16	5	metallic; brushed
20855020	20	5	
20855025	25	5	
20855032	32	5	
20855040	40	3	
20855050	50	3	

Discontinued item
While supplies last!

Alternative item: SMK-E

VMG-E



- Threaded quick-connect coupling
- High tensile strength connection, IP67
- Material: V4A; 1.4404; AISI 316L
- For all stainless steel conduits

Cat. no.	Type	Thread m. x 1.5	Packing unit [pcs.]	Colour
20875016	16	16	5	metallic; brushed
20875020	20	20	5	
20875025	25	25	5	
20875032	32	32	5	
20875040	40	40	3	
20875050	50	50	3	

Discontinued item
While supplies last!

Alternative item: SMG-E

Stainless steel requires cleaning, too!

If stainless steel regularly comes into contact with liquids containing chlorine and salt, especially when subjected to spray or drops, this can lead to an increase in the content of chloride ions, which can permanently damage the surface. Regular cleaning of the surfaces with appropriate cleaning agents can help to prevent this from happening.

Please refer to: The German Association for the Recreational and Medicinal Bath Industry (*Deutsche Gesellschaft für das Badewesen e.V.*) „BäderPortal“ <http://www.baederportal.com/>

Pliable steel conduits

FFSK-ES-UV

44412



- Pliable steel conduit, one threaded coupling
- Heavy compressive strength
- High impact strength
- Temperature range from -25 °C to +60 °C
- Material: galvanised steel strip + PVC coating
- Surfaces: glossy black
- UV-stabilised plastic jacketing
- Cable and wire shielding

EN 61386-22
Minimum compressive strength:
1250 N/5 cm



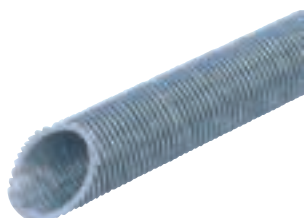
Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ≥ [mm]	Colour
20120020	20	20.0	15.7	25	7.9	140	black
20120025	25	25.0	20.2	25	10.3	160	
20120032	32	32.0	26.7	25	13.3	200	
20120040	40	40.0	34.2	25	17.4	300	
20120050	50	50.0	43.7	25	21.0	400	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the Halogen-free conduit accessories section (pages 38–39).

FFS-ES

44562



- Pliable steel conduit, one threaded coupling
- Heavy compressive strength
- High impact strength
- Temperature range from -45 °C to +250 °C
- Material: steel strip
- Surfaces: galvanised, corrosion-protected
- Only flexible conduit for hot asphalt
- Cable and wire shielding

EN 61386-22
Minimum compressive strength:
1250 N/5 cm



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ≥ [mm]	Colour
20110016	16	16.0	11.7	25	4.9	140	silvery
20110020	20	20.0	15.7	25	6.1	140	
20110025	25	25.0	20.2	25	7.7	160	
20110032	32	32.0	26.7	25	9.7	200	
20110040	40	40.0	34.2	25	12.2	300	
20110050	50	50.0	43.7	25	15.3	400	

* Production-related dimensional tolerances acc. to EN 60423.

For suitable accessories, please refer to the sections Galvanised steel conduit accessories (pages 53–55) and Metal conduit accessories (page 56).



Underground conduits

- Compatibility of straight length and coiled conduits
- No special tool required for cutting or installation
- Sealings for building inlet included in product range
- Comprehensive range of accessories

Underground conduits

Kabuflex® R plus Typ 450

N450



- Pliable cable duct
- Compressive stress type 450
- Normal impact strength
- Optimised insertion characteristics
- Temperature range from -5 °C to +90 °C
- Material: PE
- Structured-wall design with corrugated outside; green inside
- With feed cord and transparent coupling

EN 61386-24
Compressive stress type 450



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ¹⁾ ≥ [mm]	Colour
19210040	40	40.0	31	50	7.3	350	black
19210050	50	50.0	40	50	9.6	350	
19210063	63	63.0	52	50	13.6	350	
19210075	75	75.0	62	50	16.6	350	
19210090	90	90.0	75	50	21.7	350	
19210110	110	110.0	93	50	27.2	500	
19210125	125	125.0	106	25	18.0	600	
19210160	160	160.0	137	25	28.9	750	

* Production-related dimensional tolerances acc. to EN 61386-24.
¹⁾ Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C).
For suitable accessories, please refer to the Underground conduit accessories section (pages 73–77).



Kabuflex conduits are installed underground in a gravel-sand mixture, and covered with a layer of mechanically compacted soil.



The Furowell pole foundation conduit in combination with Kabuflex forms the basis for electrical installations in the garden.

Underground conduits

Kabuflex® R plus Typ 750

N750


- Pliable cable duct
- Compressive stress type 750
- Normal impact strength
- Optimised insertion characteristics
- Temperature range from -5 °C to +90 °C
- Material: PE
- Structured-wall design with corrugated outside; green inside
- With feed cord and transparent coupling
- For feed-throughs in concrete foundation slabs and for buildings penetrations

EN 61386-24
Compressive stress type 750



Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ¹⁾ ≥ [mm]	Colour
19230075	75	75.0	62	50	26.5	350	grey
19230110	110	110.0	93	50	47.5	500	
19230125	125	125.0	106	25	27.7	600	
19230160	160	160.0	136	25	41.2	750	

* Production-related dimensional tolerances acc. to EN 61386-24.

¹⁾ Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C).

For suitable accessories, please refer to the Underground conduit accessories section (pages 73–77).

Building lead-through

For the gas-tight and water pressure-tight building lead-through of power and communication cables



Foundation slab lead-through with wall collar, Kabu-IN DD and Kabuflex R plus type 750



Wall lead-through with Kabu-Seal, Kabu-IN DD and Kabuflex R plus type 750



Underground conduits

Kabuflex® R

N450



- Pliable cable duct
- Type 450
- Normal impact strength
- Temperature range from -5 °C to +90 °C
- Material: PE
- Structured-wall design (corrugated outside, smooth inside)
- High compressive strength and impact strength

EN 61386-24
Compressive stress type 450

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ¹⁾ ≥ [mm]	Colour
19130040	40	40.0	32.0	50	7.0	350	black
19130050	50	50.0	40.0	50	9.0	350	
19130063	63	63.0	52.0	50	12.8	350	
19130075	75	75.0	62.0	50	17.0	350	
19130090	90	90.0	75.0	50	22.5	350	
19130110	110	110.0	93.0	50	31.0	500	
19130120	120	120.0	99.0	25	18.0	500	
19130125	125	125.0	107.0	25	19.3	600	
19130160	160	160.0	138.0	25	26.3	750	
19130200	200	200.0	172.0	25	38.8	750	

19132040	40	40.0	32.0	50	7.0	350	red
19132050	50	50.0	40.0	50	9.0	350	
19132063	63	63.0	52.0	50	12.8	350	
19132075	75	75.0	62.0	50	17.0	350	
19132090	90	90.0	75.0	50	22.5	350	
19132110	110	110.0	93.0	50	31.0	500	
19132125	125	125.0	107.0	25	19.3	600	
19132160	160	160.0	138.0	25	26.3	750	

* Production-related dimensional tolerances acc. to EN 61386-24.

¹⁾ Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C).

For suitable accessories, please refer to the Underground conduit accessories section (pages 73–77).

Kabuflex® R - UV

N450



- Pliable cable duct
- Compressive stress type 450
- Normal impact strength
- UV-resistant for up to 10 years
- Temperature range from -5 °C to +90 °C
- Material: PE
- Structured-wall design with corrugated outside; inner surface
- With feed cord and Kabuflex coupling

EN 61386-24
Compressive stress type 450

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius ¹⁾ ≥ [mm]	Colour
19140110	110	110.0	93	50	27.2	500	black

* Production-related dimensional tolerances acc. to EN 61386-24.

¹⁾ Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C).

For suitable accessories, please refer to the Underground conduit accessories section (pages 73–77).

Underground conduits

Kabuflex® S

N450



- Rigid cable duct
- Compressive stress type 450
- Normal impact strength
- Temperature range from -5 °C to +90 °C
- Material: PE
- Structured-wall design (corrugated outside, smooth inside)
- Pliable

EN 61386-24
Compressive stress type 450

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Bend radius ¹⁾ ≥ [mm]	Pallet content [m]	Colour
3 m straight lengths with coupling (SD)								
19021075	75	75.0	63	15	5.7	2000	630	black
19021110	110	110.0	94	15	9.0	2800	300	
19021120	120	120.0	99	15	11.0	3000	270	
19021125**	125	125.0	107	15	11.6	3200	231	
19021145	145	145.0	125	15	13.7	3600	180	
19021160	160	160.0	137	15	17.3	4000	138	
19021175	175	175.0	149	15	19.8	4500	126	
6 m straight lengths without coupling								
19040075	75	75.0	63	30	11.3	2000	1260	black
19040110	110	110.0	94	30	17.9	2800	600	
19040120	120	120.0	99	30	21.9	3000	540	
19040125	125	125.0	107	30	23.1	3200	462	
19040145	145	145.0	125	30	27.3	3600	360	
19040160	160	160.0	137	30	34.5	4000	276	
19040175	175	175.0	149	30	39.5	4500	252	
19042075	75	75.0	63	30	11.3	2000	1260	red
19042110	110	110.0	94	30	17.9	2800	600	
19042120**	120	120.0	99	30	21.9	3000	540	
19042125	125	125.0	107	30	23.1	3200	462	
19042160	160	160.0	137	30	34.5	4000	360	
19042175**	175	175.0	149	30	39.5	4500	252	

* Production-related dimensional tolerances acc. to EN 61386-24.

** Available on request.

¹⁾ Valid for an ambient temperature of 20 °C. In lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C).

For suitable accessories, please refer to the Underground conduit accessories section (pages 73–77).

Underground conduits

FFVYN



- Pliable duct
- Single-wall design
- Material: PVC-U
- Light compressive and impact stress

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	In bundles of [m]	Bundle weight [kg]	Bend radius ¹⁾ ≥ [mm]	Pallet content [m]	Colour
18520050	50	50.0	44.0	25	7.1	600	–	black
18520065	65	65.1	58.0	25	9.4	600	–	
18520080	80	79.8	71.5	25	13.3	600	–	
18520100	100	99.9	91.0	25	18.3	600	–	
18520160	160	159.0	144.0	25	41.0	900	–	

¹⁾ Valid for an ambient temperature of 20 °C. At lower temperatures, we recommend that the minimum bend radii be increased as follows: by a factor of ≥ 1.5 x at approx. 10 °C, by a factor of ≥ 2 x at approx. 0 °C.

Underground conduit accessories

Kabuflex® bend



- Bend for small bend radii
- Material: PE
- 45° or 90° design
- For Kabuflex S

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Length [m]	Bend radius [mm]	Pack- ing unit [pcs.]	Colour
45° bend							
19085075	75	75.0	63	0.9	750	5	black
19085110	110	110.0	94	1	900	5	
19085120	120	120.0	99	1	900	5	
19085125	125	125.0	107	1.1	1100	5	
19085145	145	145.0	125	1.2	1100	5	
19085160	160	160.0	137	1.2	1100	5	
19085175	175	175.0	149	1.2	1100	5	
90° bend							
19080075	75	75.0	63	1.5	750	5	black
19080110	110	110.0	94	1.8	900	5	
19080120	120	120.0	99	1.9	900	5	
19080125	125	125.0	107	2	1100	5	
19080145	145	145.0	125	2.1	1100	5	
19080160	160	160.0	137	2.1	1100	5	
19080175	175	175.0	149	2.1	1100	5	

* Production-related dimensional tolerances acc. to EN 61386-24.

Spacer



8-fold

- For exact spacing
- Material: PP
- For Kabuflex conduit packages
- Type 2-, 4-, 6-, 8-fold

Cat. no.	Type	Packing unit [pcs.]	Colour
2-fold			
19942075	75	1	black
19942110	110	1	
19942120 ¹⁾	120	1	
19942160	160	1	
19942200	200	1	
4-fold			
19944075	75	1	black
19944110	110	1	
19944120 ¹⁾	120	1	
19944160	160	1	
19944200	200	1	
6-fold			
19946075	75	1	black
19946110	110	1	
19946120 ¹⁾	120	1	
19946160	160	1	
19946200	200	1	
8-fold			
19948075	75	1	black
19948110	110	1	
19948120 ¹⁾	120	1	
19948160	160	1	
19948200	200	1	

¹⁾ Also suitable for DN 125.

Underground conduit accessories

Transparent Kabuflex® coupling



- Coupling for all Kabuflex conduits
- Verification of insertion depth and profile sealing ring
- UV-resistant for up to 10 years
- Material: PP
- Sandtight without profile sealing ring
- Watertight up to 0.5 bar with profile sealing ring

Cat. no.	Type	Packing unit [pcs.]	Colour
19250040	40	1	transparent
19250050	50	1	
19250063	63	1	
19250075	75	1	
19250090	90	1	
19250110	110	1	
19250125	125	1	
19250160	160	1	

Kabuflex® coupling



- Coupling for all Kabuflex conduits
- Sandtight without profile sealing ring
- Material: PE
- Watertight up to 0.5 bar with profile sealing ring

Cat. no.	Type	Packing unit [pcs.]	Colour
19910040	40	1	black
19910050	50	1	
19910063	63	1	
19910075	75	1	
19910090	90	1	
19910110	110	1	
19910120	120	1	
19910125	125	1	
19910145	145	1	
19910160	160	1	
19910175	175	1	
19911200 ¹⁾	200	1	
19911201 ²⁾	200	1	

¹⁾ Sandtight

²⁾ Watertight WD; profile sealing rings required (to be ordered separately)

Kabuflex® profile sealing ring



- Profile sealing ring for all Kabuflex conduits
- In connection with Kabuflex couplings
- Material: EPDM
- Watertight up to 0.5 bar

Cat. no.	Type	Packing unit [pcs.]	Colour
19980040	40	1	black
19980050	50	1	
19980063	63	1	
19980075 ¹⁾	75	1	
19980090	90	1	
19980110	110	1	
19980120	120	1	
19980125	125	1	
19980145	145	1	
19980160	160	1	
19980175	175	1	
19980200	200	1	

¹⁾ If Hauff multi-use building lead-throughs (MSH) are used, please order the sealing ring cat. no. 19982075.

Underground conduit accessories

Kabuflex® SD end cap



- Sealing end cap
- Sandtight
- Material: PE
- For all Kabuflex conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
19970040	40	1	transparent / yellow
19970050	50	1	
19970063	63	1	
19970075	75	1	
19970090	90	1	
19970110	110	1	
19970120	120	1	
19970125	125	1	
19970145	145	1	
19970160	160	1	
19970175	175	1	

Kabuflex® WD end cap



- Sealing end cap incl. profile sealing ring
- Watertight up to 0.5 bar with profile sealing ring
- Material: ABS
- For all Kabuflex conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
19971110	110	1	black
19971120	120	1	
19971125	125	1	
19971160	160	1	
19971175	175	1	

Reducer



- Kabuflex / KG conduit adapter
- Watertight up to 0.5 bar with profile sealing ring
- Material: PVC
- For all Kabuflex conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
19995110 ¹⁾	110	1	black
19995160 ²⁾	160	1	

¹⁾ For KG conduit 100 (push-fit KG coupling); ²⁾ for KG conduit 150 (push-fit KG coupling).

Coupling



- Coupling for FFVYN
- Sandtight
- Material: PVC-U

Cat. no.	Type	Packing unit [pcs.]	Colour
18550050	50	1	black
18550065	65	1	
18550080	80	1	
18550100	100	1	
18550160	160	1	

Underground conduit accessories

Kabu-IN



- Internal seal for Kabuflex conduits with cable feed-through
- Gas-tight and water pressure-tight
- External thermoset elastomer rubber coating
- Material: EPDM / PUR – V2A compressive flange
- Visual indicator (bead) on flange

Cat. no.	Type	Outside Ø [mm]	Cable Ø [mm]	Sealing width [mm]	For Kabuflex conduit type	Packing unit [pcs.]	Colour
1 cable							
19951063	63	50	9 – 18	30	63	1	yellow
19951075	75	61	9–24	30	75	1	
19951110	110	92	9–48	30	110	1	
2 cables							
19952110	110	92	9–18; 9–36	30	110	1	yellow
3 cables							
19953160	160	135	3 x 9–42	30	160	1	yellow
4 cables							
19954110	110	92	4 x 9–18	30	110	1	yellow
19954160	160	132	4 x 9–36	30	160	1	
6 cables							
19956160	160	135	6 x 9–30	30	160	1	yellow

Kabu-IN DD



- Internal seal for Kabuflex conduits with cable feed-through for one cable
- Gas-tight and water pressure-tight
- External thermoset elastomer rubber coating
- Material: EPDM / PUR – V2A compressive flange
- Visual indicator (bead) on flange
- As one-use building lead-through in combination with Kabuflex R Plus type 750, wall collar set or Kabu-Seal
- Tightness tested according to DVGW VP 601

Cat. no.	Type	Outside Ø [mm]	Cable Ø [mm]	Sealing width [mm]	For Kabuflex conduit type	Packing unit [pcs.]	Colour
19961075	75	61	9 – 24	60	75	1	yellow
19961110	110	92	9 – 48	60	110	1	

Kabu-IN DD, in a system with Kabuflex R plus type 750, wall collar set or Kabu-Seal, pressure-tight up to 1.5 bar.

Kabu-BV



- End plug for Kabuflex conduits
- Gas-tight and water pressure-tight
- External thermoset elastomer rubber coating
- Material: EPDM / PUR – V2A compressive flange
- Installation without special tools
- Visual indicator (bead) on flange

Cat. no.	Type	Outside Ø [mm]	Sealing width [mm]	For Kabuflex conduit type	Packing unit [pcs.]	Colour
19950063	63	50	30	63	1	yellow
19950075	75	61	30	75	1	
19950110	110	92	30	110	1	
19950160	160	135	30	160	1	

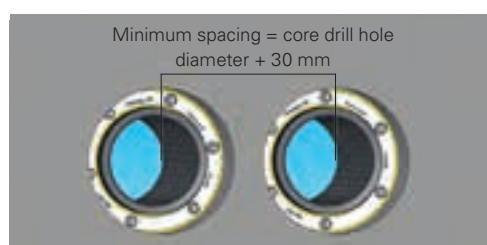
Underground conduit accessories

Kabu-Seal



- Pressure sealing ring for Kabuflex conduits
- Water pressure-tight up to 1.5 bar
- With solid rubber core
- External thermoset elastomer rubber coating
- Material: EPDM/PUR – V2A compressive flange
- Low tightening torque 2 Nm
- Installation without special tools
- Visual indicator (bead) on flange

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Core drill hole [mm]	For conduits Ø [mm]	Width [mm]	Pack- ing unit [pcs.]	Colour
19965063	63	100	64	100	63	60	1	yellow
19965075	75	122.8	76	125	75	60	1	
19965110	110	150	111	150	110	60	1	
19965160	160	198.3	162	200	160	80	1	
19965200	200	298.3	202	300	200	80	1	



Minimum spacing when installing Kabu-Seal pressure sealing rings next to each other.

Wall collar set



- Wall lead-through for all Kabuflex conduits
- Water pressure-tight up to 3.0 bar
- Incl. tightening strap and tightening locks
- Material: EPDM
- Radon-tight
- Ideal for foundation slab lead-through

Cat. no.	Type	Core drill hole [mm]	Colour
19960040	40	≈250	black
19960050	50	≈250	
19960063	63	≈250	
19960075	75	≈250	
19960110	110	≈300	
19960120	120	≈300	
19960160	160	≈350	
19960175	175	≈350	



Watertight building lead-throughs through the foundation slab using a wall collar.



Foundation slab lead-through with wall collar, Kabu-IN DD and Kabuflex R plus type 750 (minimum bend radius type 110 is 500 mm).

Pole foundation conduit

Furowell



- Pole foundation conduit
- Structured-wall design (corrugated outside, smooth inside)
- For all types of poles, masts and rods
- Material: PE
- For lamp posts
- For flag poles, traffic signs

Cat. no.	Technical data	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Pcs. / pallet	Colour
29510250	DN 250	293	253	800	22	black
29510350	DN 350	400	345	800	12	
29511250	DN 250	293	253	1000	22	black
29511300	DN 300	346	300	1000	12	
29511350	DN 350	400	345	1000	12	
29512250	DN 250	293	253	1500	11	black
29512350	DN 350	400	345	1500	6	

Suitable accessories: Furowell end cap.

Furowell end cap



- Sealing end cap
- Sandtight
- Material: PE
- For all Furowell conduits

Cat. no.	Technical data	Packing unit [pcs.]	Colour
29570250	DN 250	1	yellow
29570300	DN 300	1	black
29570350	DN 350	1	



Furowell foundation conduits firmly secure rods and masts in the ground.

Cable protection

FRH round cable protectors



- Round cable protector with red signal colour
- Material: PVC
- To protect all types of underground cables
- With secure interlocking mechanism

Cat. no.	Type	Cover width [mm]	Length [cm]	Pallet content [m]	Colour
18020040	40	40	50	1500	red
18020050	50	50	50	1500	
18020060	60	60	50	1500	
18020080	80	80	50	1000	
18020100	100	100	50	1000	
18040040	40	40	100	1500	red
18040050	50	50	100	1500	
18040060	60	60	100	1500	
18040080	80	80	100	1000	
18040100	100	100	100	1000	

FHA cable protectors



- Cable protector with red signal colour
- Material: PVC
- To protect all types of underground cables
- With secure interlocking mechanism

Cat. no.	Type	Cover width [mm]	Length [cm]	Pallet content [m]	Colour
18120110	110	110	50	1500	red
18120120	120	120	50	1500	
18120160	160	160	50	1500	
18120180	180	180	50	1000	
18120200	200	200	50	1000	
18140110	110	110	100	1500	red
18140120	120	120	100	1500	
18140160	160	160	100	1500	
18140180	180	180	100	1000	
18140200	200	200	100	1000	

Cable protection

FPL cable cover plates



- Cover plate with red signal colour
- Material: PVC
- To protect all types of underground cables
- With secure interlocking mechanism

Cat. no.	Type	Cover width [mm]	Length [cm]	Pallet content [m]	Colour
18220120	120	120	50	1500	red
18220180	180	180	50	1500	
18220200	200	200	50	1500	
18220250	250	250	50	1000	
18220300	300	300	50	750	
18240120	120	120	100	1500	red
18240180	180	180	100	1500	
18240200	200	200	100	1500	
18240250	250	250	100	1000	
18240300	300	300	100	750	

FTWB Trassenwarnband



- Warning tape to protect underground cables
- Material: PE
- Inscription: "Achtung Starkstromkabel" (Caution: High-voltage cable)
- Early detection of cables during earthwork

Cat. no.	Spool content [m]	Width [mm]	Thickness [mm]	Colour
18410000	250	40	0.15	yellow



Resealable corrugated conduits

- Two-piece conduits for retrofit protection of cables and wires
- Resealable
- Non-flame propagating according to EN 61386-1
- Comprehensive range of accessories

Resealable corrugated conduits

Co-flex PP



- Resealable, slit corrugated conduit
- Very light compressive strength
- Medium impact strength
- Temperature range from -40 °C to +135 °C
- Material: PP
- Resealable
- Retrofit protection of cables and wires
- Protection against damage from marten and rodent bites

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Bend radius* ≥ [mm]	Packing unit [m]	Colour
37000600	6	10.0	6.3	40	50	black
37001000	10	13.4	8.4	70	50	
37001100	11	16.1	11.0	80	50	
37001400	14	18.5	12.5	95	50	
37001600	16	21.5	16.0	100	50	
37002000	20	25.3	19.2	130	50	
37002300	23	30.8	23.4	155	50	
37002900	29	35.5	27.3	160	25	
37003700	37	41.4	31.0	205	25	
37004500	45	54.0	42.7	190	25	
37007000	70	79.8	67.5	375	10	
37010000	100	102.5	87.5	500	10	

37001002	10	13.4	8.4	70	10	black
37001402	14	18.5	12.5	95	10	
37002002	20	25.3	19.2	130	10	
37002302	23	30.8	23.4	155	10	
37003702	37	41.4	31.0	205	10	
37004502	45	54.0	42.7	190	10	

37001003	10	13.4	8.4	70	5	black
37001403	14	18.5	12.5	95	5	
37002003	20	25.3	19.2	130	5	
37002303	23	30.8	23.4	155	5	
37003703	37	41.4	31.0	205	5	
37004503	45	54.0	42.7	190	5	

* Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

For suitable accessories, please refer to the Resealable corrugated conduit accessories section (pages 84–85).

Co-flex PP



- Resealable, slit corrugated conduit
- Very light compressive strength
- Medium impact strength
- Temperature range from -30 °C to +105 °C
- Material: PP MOD BS
- Resealable
- Retrofit protection of cables and wires
- Protection against damage from marten and rodent bites

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Bend radius* ≥ [mm]	Packing unit [m]	Colour
38402010	20	25.3	19.2	130	50	white

* Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

For suitable accessories, please refer to the Resealable corrugated conduit accessories section (pages 84–85).

Resealable corrugated conduits

Co-flex PA6



- Resealable, slit corrugated conduit
- Very light compressive strength
- Light impact strength
- Temperature range from -40 °C to +120 °C
- Material: PA6
- Resealable
- Retrofit protection of cables and wires
- Protection against damage from marten and rodent bites

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Bend radius* ≥ [mm]	Packing unit [m]	Colour
41000600	6	10.0	6.3	45	50	black
41001000	10	13.5	8.8	55	50	
41001100	11	16.1	11.0	75	50	
41001400	14	18.7	13.2	75	50	
41001600	16	21.5	16.0	85	50	
41002000	20	25.7	20.2	105	50	
41002300	23	31.3	23.9	125	50	
41002900	29	35.5	27.3	180	25	
41003700	37	43.2	32.5	170	25	
41004500	45	54.2	43.1	170	25	
41007000	70	79.8	67.0	300	10	
41010000	100	102.5	87.5	400	10	

* Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

For suitable accessories, please refer to the Resealable corrugated conduit accessories section (pages 84–85).

Co-flex PP-UV



- Resealable, slit corrugated conduit
- Very light compressive strength
- Medium impact strength
- Temperature range from -40 °C to +105 °C
- Material: PP MOD BS UV
- UV-resistant for up to 20 years
- Resealable
- Retrofit protection of cables and wires

Cat. no.	Type	Outside Ø* [mm]	Inside Ø [mm]	Bend radius* ≥ [mm]	Packing unit [m]	Colour
38400600	6	10.0	6.3	40	50	black
38401000	10	13.4	8.4	70	50	
38401100	11	16.1	11.0	80	50	
38401400	14	18.5	12.5	95	50	
38401600	16	21.5	16.0	100	50	
38402000	20	25.3	19.2	130	50	
38402300	23	30.8	23.4	155	50	
38402900	29	35.5	27.3	160	25	
38403700	37	41.4	31.0	205	25	
38404500	45	54.0	42.7	190	25	
38407000	70	79.8	67.5	375	10	
38410000	100	102.5	87.5	500	10	

38401002	10	13.4	8.4	70	10	black
38401402	14	18.5	12.5	95	10	
38402002	20	25.3	19.2	130	10	
38402302	23	30.8	23.4	155	10	
38403702	37	41.4	31.0	205	10	
38404502	45	54.0	42.7	190	10	

* Min. bend radius (neutral fibre) with a flattening of the conduit outside diameter of ≤ 5 %.

For suitable accessories, please refer to the Resealable corrugated conduit accessories section (pages 84–85).

Resealable corrugated conduit accessories

Insertion tool with handle



- To easily insert cables and wires
- Material: PA6
- Suitable for type 7.5 to 29
- For slit Co-flex corrugated conduits

Cat. no.	For conduits Ø [mm]	Packing unit [pcs.]	Colour
49090003	7.5 – 34	100	black

COS – fixing clamp



- Fixing clamp with integrated ledge
- Material: PA66
- With fixing loops for cable ties
- For slit Co-flex corrugated conduits

Cat. no.	Type	Width [mm]	Height [mm]	Bore hole Ø [mm]	Packing unit [pcs.]	Colour
49120006	6	15.0	17.5	M3	100	black
49120100	10	18.5	21.0	M3	100	
49120102	10*	18.5	21.0	M5	100	
49120110	11	21.0	22.5	M3	100	
49120140	14	24.0	25.5	M3	100	
49120142	14*	24.0	25.5	M5	100	
49120160	16	30.0	33.0	M5	100	
49120162	16*	30.0	33.0	M6	100	
49120200	20	35.0	36.0	M5	50	
49120202	20*	35.0	36.0	M6	50	
49120230	23	42.0	43.5	M5	50	
49120232	23*	42.0	43.5	M6	50	
49120290	29	48.0	48.5	M5	50	
49120292	29*	48.0	48.5	M6	50	
49120370	37	55.0	56.5	M6	20	
49120450	45	67.0	68.0	M6	20	
49120700	70	100.0	101.0	M6	10	

* Please observe bore hole size.

COV



- Two-piece threaded connector and locknut
- Material: PA6
- Also for retrofit installation
- For slit Co-flex corrugated conduits

Cat. no.	Type	Thread Pg.	Packing unit [pcs.]*	Colour
49110100	10	9	100	black
49110140	14	13.5	100	
49110200	20	21	50	
49110230	23	29	50	
49110370	37	29	25	

* Threaded connector and locknut.

Resealable corrugated conduit accessories

Cofix threaded connector



- Two-piece threaded connector
- Material: PA6
- Also for retrofit installation
- For slit Co-flex corrugated conduits

Cat. no.	Type	Thread M. x 1.5	Packing unit [pcs.]	Colour
49110102	10	16	100	black
49110142	14	20	100	
49110202	20	25	50	
49110232	23	32	50	
49110372	37	40	25	
49110452	45	50	25	

Cofix locknut



- Two-piece locknut
- Material: PA6
- Also for retrofit installation
- For Cofix threaded connector

Cat. no.	Type	Thread M. x 1.5	Packing unit [pcs.]	Colour
49112101	10	16	100	black
49112141	14	20	100	
49112201	20	25	50	
49112231	23	32	50	
49112371	37	40	25	
49112451	45	50	25	

Resealable oval corrugated conduits

PV-COOR



- Resealable, slit oval conduit
- Very light compressive strength
- Medium impact strength
- Temperature range from -40 °C to +105 °C
- Material: PP MOD BS UV
- UV-resistant for up to 20 years
- Resealable
- Protection of PV supply lines

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Packing unit [m]	Colour
38448000	40 x 80	51.5 x 95.0	40.0 x 80.0	20	black

For suitable accessories, please refer to the Resealable oval corrugated conduit accessories section (pages 87–88).

COOR-flex



- Resealable, slit oval conduit
- Very light compressive strength
- Medium impact strength
- Temperature range from -30 °C to +105 °C
- Material: PP MOD BS
- Resealable
- Retrofit protection of cables and wires
- Protection of supply lines

Cat. no.	Type	Outside Ø [mm]	Inside Ø [mm]	Packing unit [m]	Colour
37048010	40 x 80	51.5 x 95.0	40.0 x 80.0	20	white

For suitable accessories, please refer to the Resealable oval corrugated conduit accessories section (pages 87–88).

Resealable oval corrugated conduit accessories

PV-COOR 90° angle



- Two-piece 90° angle
- UV-resistant for up to 20 years
- Material: PP MOD BS UV
- For slit PV-COOR corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
49140801	40 x 80	1	black

PV-COOR T-distributor



- Two-piece T branch
- UV-resistant for up to 20 years
- Material: PP MOD BS UV
- For slit PV-COOR corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
49140802	40 x 80	1	black

PV-COOR end cap



- Two-piece end cap
- UV-resistant for up to 20 years
- Material: PP MOD BS UV
- For slit PV-COOR corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
49140803	40 x 80	1	black

Resealable oval corrugated conduit accessories

COOR-flex 90° angle



- Two-piece 90° angle
- Also for retrofit installation
- Material: PP MOD BS
- For slit COOR-flex corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
49140807	40 x 80	1	white

COOR-flex T-distributor



- Two-piece T branch
- Also for retrofit installation
- Material: PP MOD BS
- For slit COOR-flex corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
49140808	40 x 80	1	white

COOR-flex end cap



- Two-piece end cap
- Also for retrofit installation
- Material: PP MOD BS
- For slit COOR-flex corrugated conduits

Cat. no.	Type	Packing unit [pcs.]	Colour
49140809	40 x 80	1	white



Technical appendix

- Use of electrical conduits
- Circuit integrity
- Chemical characteristics
- Physical characteristics acc. to EN 61386-1 and DIN VDE 0100-520
- Information on fire behaviour

Use of conduits

Electrical conduits must comply with the requirements of EN 61386-1. These standards determine the classifications, identification and VDE tests.

The five-digit code classifies conduits and accessories according to compressive strength, impact strength and minimum and maximum operating temperatures and bends during transport, storage and use.

The **classification code “33532”** stands for: Conduit system with **medium** compressive strength (3), **medium** impact strength (3), minimum operating temperature of **-45 °C** (5), maximum operating temperature of **+105 °C** (3) and **pliable** bending behaviour (2).

First digit		Second digit		Third digit		Fourth digit		Fifth digit	
Compressive strength		Impact strength		Minimum operating temperature		Maximum operating temperature		Bending behaviour	
1	very light (125 N)	1	very light (0.5 kg/100 mm)	1	+ 5 °C	1	+ 60 °C	1	rigid
2	light (320 N)	2	light (1.0 kg/100 mm)	2	- 5 °C	2	+ 90 °C	2	pliable
3	medium (750 N)	3	medium (2.0 kg/100 mm)	3	- 15 °C	3	+ 105 °C	3	pliable, resilient
4	heavy (1250 N)	4	heavy (2.0 kg/300 mm)	4	- 25 °C	4	+ 120 °C	4	flexible
5	very heavy (4000 N)	5	very heavy (6.8 kg/300 mm)	5	- 45 °C	5	+ 150 °C	5	
						6	+ 250 °C		
						7	+ 400 °C		

3

3

5

3

2

Use of conduits

Excerpt from DIN VDE 0100-520

Not every conduit is suited for all installations. DIN VDE 0100-520 describes the basic requirements for the selection and use of conduits. The description of installation locations and the minimum requirements for compressive strength in the table to the left comply with this standard.

More content:

- Pliable, resilient conduits with these characteristics are not suited for installations in concrete.
- Halogen-free installations must fulfil the requirements of EN 50642.
- Outdoor installations: The conduits require UV-stabilisation.

Installation location		Com- pressive strength	Impact strength	Min. operating temp.	Max. operating temp.
Outdoor installation	Exposed installation	3	3	2	1
Installation in buildings	Exposed installation	2	2	2	1
	Underfloor installation (in screed)	2	3	2	1
	Installed in concrete	3	3	2	1
	Installed in cavity wall / wood (flammable materials)	2	2	2	1
	Installed in plaster				
	Installed in building voids				
	Installed in suspended ceil- ings				
	Ceiling installation*	4	3	3	1

* Only applies to mounting spans greater than 0.80 m; otherwise, the requirements for installations in suspended ceilings apply.

Note

Practical experience shows that the minimum requirements for the installation location "screed" often do not meet mechanical stress requirements; therefore, we recommend compressive strength "3".

Circuit integrity

Circuit integrity is a major concern to cable / wire manufacturers, but also to manufacturers of cable trays, fixing clamps, and to us as a manufacturer of electrical conduits.

FRÄNKISCHE usually provides manufacturers of cables and wires with samples of the desired products upon request. They obtain circuit integrity approval by an accredited certification body for the construction industry in the form of a general building authority testing certificate. General building authority testing certificates from different manufacturers are available to us.

Contact

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Dätwyler Cables GmbH		E30	E60	E90	E30	E60	E90
Mr Peter Pardeyke Auf der Roos 4-12 65795 Hattersheim Phone: +49 6190 88 80-23 Fax: +49 6190 88 80-20	Staro Steck-ES	●	●		●		
	Staro Gewinde-ES	●	●		●		
	Staro Steck-ES-V	●	●		●		
	Staro Gewinde-ES-V	●	●		●		
	FPKu-EM-F-H0 / LS0H	●	●	●	●	●	●

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Prysmian Kabel und Systeme GmbH		E30	E60	E90	E30	E60	E90
Mr Michael Kittler Nibelungenstr. 85 42369 Wuppertal Phone: +49 202 2 96 24 38	Staro Steck-ES	●	●	●	●		●
	Staro Gewinde-ES	●	●	●	●		●
	Staro Steck-ES-V						
	Staro Gewinde-ES-V						
	FPKu-EM-F-H0 / LS0H						

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Kabelwerk Eupen AG		E30	E60	E90	E30	E60	E90
Mr Marko Ahn Karl-Kuck-Straße 3 52078 Aachen Phone: +49 241 9 28 31-340	Staro Steck-ES	●		●	●		●
	Staro Gewinde-ES	●		●	●		●
	Staro Steck-ES-V	●		●	●		●
	Staro Gewinde-ES-V	●		●	●		●
	FPKu-EM-F-H0 / LS0H	●		●	●		●

		Data cable			Power cable		
		JE-H(St)H			(N)HXH		
Leoni Studer AG		E30	E60	E90	E30	E60	E90
Mr Christian Tausch Herrenmattstrasse 20 4658 Däniken, Switzerland Phone: +41 172 639 25 25	Staro Steck-ES	●	●	●	●	●	●
	Staro Gewinde-ES	●	●	●	●	●	●
	Staro Steck-ES-V	●	●	●	●	●	●
	Staro Gewinde-ES-V	●	●	●	●	●	●
	FPKu-EM-F-H0 / LS0H	●	●	●	●	●	●

Chemical characteristics

Fluid	Percentage	PVC-U	PE-HD*	PP*	Special plastic	
Medium	Concentration	DIN 8061	DIN 8075	DIN 8078	FFKu-EL-F-LS0H	FPKu-EM-F-H0
		Supplement 1	Supplement 1	Supplement 1	FFKuS-EM-F-LS0H	FPKu-EM-F-LS0H
Hydrochloric acid emissions	any	+	+	+	+	o
Sulphuric acid emissions	any	+	+	+	+	o
Liquid ammonia	TR	+	+	+	+	+
Gaseous ammonia	TR	+	+	+	+	+
Gasoline	H	+	+	o	o	o
Benzene	TR	-	o	o	o	
Gaseous, dry chlorine	TR	o	o	-	-	+
Diesel fuel	H	+	+	+	+	o
Aqueous fertiliser salt	saturated	+	+	+	+	
Photographic developer	H	+	+	+	+	+
Vinegar (wine vinegar)	H	+	+	+	+	+
Anti-freeze	H	+	+	+	+	
Fruit juices	H	+	+	+	+	
Aqueous uric acid	33 %	+	+	+	+	+
Fuel oil	H	+	+	+	+	
Sea water	H	+	+	+	+	+
Methanol	TR	+	+	+	+	o
Milk	H	+	+	+	+	o
Mineral oil	H	+	+	+	+	o
Vegetable and animal oils	H	+	+	+	+	o
Paraffin	TR	+	+	+	+	
Gaseous propane	TR	+	+	+	+	
Nitric acid	30 %	+	o	o	o	+
Hydrochloric acid	30 %	+	+	+	+	+
Sulphuric acid	40 %	+	+	+	+	+
Turpentine	TR	+	o	-	-	
Detergent	VL	+	+	+	+	o

Note: The information provided above applies to 20 °C. The concentration (%) and the temperature must always be indicated additionally for special applications.

VL = aqueous solution, rate $\geq$ 10 %
 GL = saturated solution, aqueous
 TR = minimum requirement:
 technically pure
 H = standard composition

++ = resistant
 o = limitedly resistant
 - = non-resistant
 * polyolefins

Please note

The above information is provided to the best of our current knowledge and experience.

We reserve the right to make technical changes or improvements to our products. The customer is responsible for conducting adequate incoming inspections, tests and other examinations. The customer is also solely responsible for observing industrial property rights, laws and regulations.

Physical characteristics acc. to EN 61386-1 and DIN VDE 0100-520

Application and identification according to physical characteristics

Field of application	Product	Material	Colour	Possible forms of installation										Code	see p.		
Light duty Conduits for light mechanical stress Minimum compressive strength 320 N/5 cm	isofix-EL-F	PVC-U	light grey	●	●	●						●		22211	28		
	FBY-EL-F	polyolefin	black	●	●	●						●	●	23322	14		
	FFKu-EL-F	PVC-U	beige	●	●	●							●	22212	15		
	FFKu-EL-F-LS0H	special plastic	black	●	●	●						●	●	23232	34		
	FFKu-ReMo click	polyolefin	signal blue	●	●	●						●	●	23422	16		
	FPKu-EL-F-H0	special plastic	light grey	●	●	●							●	22521	36		
Medium duty Conduits for medium mechanical stress Minimum compressive strength 750 N/5 cm	FPKu-EM-F	PVC-U	light grey	●	●	●			●	●			●	●	33411	28	
	FPKu-EM-F-UV	modified PVC	white	●	●	●			●	●			●	●	●	33411	43
	FPKu-EM-F-LS0H	special plastic	light grey	●	●	●			●	●			●	●	33541	37	
	FPKu-EM-F-H0	special plastic	light grey	●	●	●			●	●			●	●	33521	36	
	FFKu-EM-F	PVC-U	grey	●	●	●	●		●	●			●	●	33412	17	
	FFKuS-EM-F	PVC-U/PVC-P	grey	●	●	●	●	●		●	●			●	●	33412	17
	FFKuS-EM-F-105	special plastic	magenta	●	●	●	●	●	●				●	●	33532	18	
	FFKuS-EM-F-LS0H	special plastic	black	●	●	●	●	●	●				●	●	33532	35	
	FFKu-EM-F-LS0H	special plastic	black	●	●	●	●	●	●				●	●	33232	34	
	FFKuS DATALIGHT	PVC	blue-purple	●	●	●	●	●	●				●	●	33412	8	
	FFKu-Smart net	polyolefin	blue-purple	●	●	●	●	●	●				●	●	33522	18	
Heavy duty Conduits for heavy mechanical stress Minimum compressive strength 1250 N/5 cm	FPKu-ES-F-UV	modified PVC	grey/black	●	●	●			●	●			●	●	●	43411	43
	FPKu-ES-F	PVC-U	grey	●	●	●			●	●			●	●	43211	29	
	Staro Steck-ES	steel	black/varnished	●	●	●				●	●		●	●	44561	48	
	Staro Steck-ES-V	steel	hot-galvanised	●	●	●				●	●		●	●	●	44571	52
	Alu Steck-ES	aluminium	silver	●	●	●				●	●			●	●	44561	58
	FFKuS-ES-F-UV	modified PVC	black	●	●	●	●		●	●			●	●	●	43412	42
	FFS-ES	steel	silver	●	●	●			●	●	●		●	●	44562	65	
	FFSK-ES-UV	steel/mod. PVC	black	●	●	●	●		●	●			●	●	●	44412	65
Very heavy duty Conduits for very heavy mechanical stress Minimum compressive strength 4000 N/5 cm	Staro Gewinde-ES	steel	black/varnished	●	●	●			●	●	●		●	●	55561	48	
	Staro Gewinde-ES-V	steel	hot-galvanised	●	●	●	●		●	●	●		●	●	●	55571	52
	Alu Gewinde-ES	aluminium	silver	●	●	●				●	●			●	●	55561	58
	V2 Steck-ES	V2A	silver	●	●	●				●	●		●	●	●	55571	62
	V4 Steck-ES	V4A	silver	●	●	●				●	●		●	●	●	55571	62
H0 Conduits made of halogen-free insulating material	FPKu-EM-F-LS0H	special plastic	grey	●	●	●			●	●			●	●	33541	37	
	FPKu-EL-F-H0	special plastic	light grey	●	●	●								●	22521	36	
	FPKu-EM-F-H0	special plastic	grey	●	●	●			●	●			●	●	33521	36	
	FFKu-EL-F-LS0H	special plastic	black	●	●	●							●	●	23232	34	
	FFKu-EM-F-LS0H	special plastic	black	●	●	●	●		●	●			●	●	33232	34	
	FFKuS-EM-F-LS0H	special plastic	black	●	●	●	●	●		●	●			●	●	33532	35
UV UV-resistant conduits	FPKu-ES-F-UV	modified PVC	grey/black	●	●	●			●	●			●	●	●	43411	43
	FPKu-EM-F-UV	modified PVC	white	●	●	●			●	●			●	●	●	33411	43
	FFKuS-ES-F-UV	modified PVC	black	●	●	●	●		●	●			●	●	●	43412	42
	FFSK-ES-UV	steel/mod. PVC	black	●	●	●	●		●	●			●	●	●	44412	65
	Staro Steck-ES-V	steel	hot-galvanised	●	●	●				●	●		●	●	●	44571	52
	Staro Gewinde-ES-V	steel	hot-galvanised	●	●	●	●		●	●	●		●	●	●	55571	52
	V2 Steck-ES	V2A	silver	●	●	●				●	●		●	●	●	55571	62
	V4 Steck-ES	V4A	silver	●	●	●				●	●		●	●	●	55571	62
	Alu Steck-ES	aluminium	silver	●	●	●				●	●			●	●	44561	58
	Alu Gewinde-ES	aluminium	silver	●	●	●				●	●			●	●	55561	58
					Exposed installations	Concealed installations (in under plaster)	Installations on wood	Underground installations	Installations in concrete	Engineering installations	Underfloor installations (for under floor heating)	Under screed	Prefabricated construction	Installations outdoors			

Information on fire performance

Halogen-free low smoke conduits manufactured by FRÄNKISCHE have clear advantages over conventional conduits for electrical installations.

Low smoke gas acc. to EN 61034-2	► better visibility on escape routes and during rescue operations
Reduces toxic and corrosive gases in case of fire to a safe level. Development of hydrochloric acid is excluded	► increased protection of "life and limb" as well as buildings, machinery or material assets
Non-flame propagating, i.e., self-extinguishing	► conduits do not contribute to flame propagation
High temperature resistance	► guarantees high operational reliability
High impact strength, even at very low temperatures	► guarantees high operational reliability
Good electrical insulation characteristics	► guarantees high operational reliability
No ecological and disposal problems during manufacturing and use	► environmentally compatible
Halogen-free according to EN 50642	► standard-compliant

Fire load value of our products in kWh/m

Conduit name	16	20	25	32	40	50	63
FBY-EL-F Highspeed	0.583	0.696	0.966	1.288	1.872	2.306	3.244
FFKu-EL-F	0.182	0.237	0.292	0.457	0.604	0.866	1.076
FFKuS-EM-F Highspeed	0.391	0.594	0.748	0.987	1.260	1.617	2.219
FFKuS-EM-F-105	0.538	0.694	0.945	1.231	1.838	2.203	3.070
FFKuS-ES-F-UV	0.523	0.798	0.952	1.313	1.785	2.310	3.024
FFKu-EL-F-LS0H	0.430	0.672	0.874	1.155	1.540	1.964	2.380
FFKuS-EM-F-LS0H	0.981	1.358	1.869	2.503	3.196	4.286	5.374
isofix-EL-F	0.319	0.440	0.594	0.830	1.176	1.601	2.650
FPKu-EM-F	0.468	0.594	0.836	1.103	1.549	2.090	2.973
FPKu-ES-F	0.578	0.743	1.001	1.365	1.838	2.546	3.536
FPKu-ES-F-UV	0.578	0.743	1.001	1.365	1.838	2.546	3.536
FPKu-EM-F-UV	0.468	0.605	0.858	1.103	–	–	–
FPKu-EM-F-H0	0.789	1.136	1.507	1.992	2.704	3.985	5.142
FPKu-EM-F-LS0H	0.722	1.006	1.345	1.796	2.443	3.707	4.893
FFKu-ReMo click	–	–	1.208	–	–	–	–
FFKu-Smart net	–	–	1.535	–	–	–	–
FFKuS DATALIGHT	–	–	0.863	–	–	–	–
FPKu-EL-F-H0	0.661	0.893	1.148	1.638	2.103	3.431	4.106
FFKu-EM-F	0.259	0.330	0.484	0.635	0.882	1.129	1.563

The values indicated in the table were calculated on the basis of heating values according to DIN 18230-3 and the information provided by the material supplier. We do not assume any responsibility for the accuracy of the information provided!



Industrial cable protection

- FIPLOCKone – Extremely high protection class IP69 for all threaded plastic connectors
- FIPLOCKone – Secure connection due to patented clamping ring
- FIPMETAL – One threaded connector for all protective metal hoses
- UL approval for FIPLOCK, FIPLOCKone and FIPMETAL

Flexible corrugated plastic conduits

FIPLOCK®

FPANF

23544


- Flexible corrugated conduit
- Light compressive strength
- Medium impact strength
- Temperature resistance range from -45 °C to +120 °C
- Material: PA6, halogen-free
- High abrasion protection
- High dynamic load capacity

EN 61386-23

 Minimum compressive strength:
320 N/5 cm

Flammability: UL 94 V2



Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius	Colour
4020000700	FPANF-07B.50	7	10.0	6.2	50	1.1	2700	15	black
4020001000	FPANF-10B.50	10	12.8	9.6	50	1.4	1800	20	
4020001200	FPANF-12B.50	12	15.7	12.0	50	1.9	1200	30	
4020001700	FPANF-17B.50	17	21.1	16.6	50	2.7	800	35	
4020002300	FPANF-23B.50	23	28.4	22.6	50	5.0	500	40	
4020002900	FPANF-29B.50	29	34.5	29.0	50	6.7	250	50	
4020003600	FPANF-36B.25	36	42.4	36.5	25	4.0	200	55	
4020004800	FPANF-48B.25	48	54.4	47.5	25	5.7	100	65	

For suitable accessories, please refer to the Flexible corrugated plastic conduit accessories section (pages 100–103).

FPPSF-U

23434


- Flexible corrugated conduit
- Light compressive strength
- Medium impact strength
- Temperature resistance range from -25 °C to +105 °C
- Temperature resistance acc. to FIP IS from -40 °C to +105 °C
- Material: PP, halogen-free
- High abrasion protection
- UV-resistant for up to 20 years

EN 61386-23

 Minimum compressive strength:
320 N/5 cm

Flammability: UL 94 V2

Cat. no.	Description / Sales cat. no.	NW	Out-side Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Palet-teninh. [m]	Bend radius stat.	Bend radius dyn.	Col-our
3090000700	FPPSF-07U.50	7	10.0	6.6	50	0.7	2700	15	40	black
3090001000	FPPSF-10U.50	10	12.8	9.8	50	1.2	1800	20	45	
3090001200	FPPSF-12U.50	12	15.7	12.3	50	1.8	1200	25	65	
3090001700	FPPSF-17U.50	17	21.1	16.6	50	2.7	800	30	70	
3090002300	FPPSF-23U.50	23	28.4	23.1	50	4.9	500	35	90	
3090002900	FPPSF-29U.50	29	34.5	28.9	50	5.4	250	45	110	
3090003600	FPPSF-36U.25	36	42.4	36.5	25	3.5	200	60	170	
3090004800	FPPSF-48U.25	48	54.4	47.5	25	4.8	100	70	185	

For suitable accessories, please refer to the Flexible corrugated plastic conduit accessories section (pages 100–103).

Flexible corrugated plastic conduits

FIPHEAT®
FTPSF
00454


- Flexible corrugated conduit
- High temperature resistance
- Temperature resistance range from -25 °C to +150 °C
- Temperature resistance acc. to FIP IS from -40 °C to +150 °C
- Material: TPE
- Highly flexible

Flammability: UL 94 HB

Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Pallet content [m]	Bend radius	Colour
4600000700	FTPSF-07B.50	7	9.8	7.0	50	1.3	2700	15	black
4600001000	FTPSF-10B.50	10	13.0	9.9	50	1.8	1800	20	
4600001200	FTPSF-12B.50	12	16.0	12.5	50	2.1	1200	30	
4600001700	FTPSF-17B.50	17	21.5	16.8	50	3.5	800	40	
4600002300	FTPSF-23B.50	23	28.8	23.8	50	5.0	500	45	
4600002900	FTPSF-29B.25	29	32.5	27.8	25	3.5	250	55	
4600003600	FTPSF-36B.25	36	42.2	34.0	25	4.8	200	60	
4600004800	FTPSF-48B.25	48	53.8	45.6	25	6.9	100	70	

For suitable accessories, please refer to the Flexible corrugated plastic conduit accessories section (pages 100–103).

Flexible corrugated plastic conduit accessories

FIPLOCK® ONE

ASPA-M



- Straight threaded connector
- For IP66, IP67, IP68 and IP69 protection classes
- Temperature resistance range from -45 °C to +120 °C
- Temperature resistance acc. to FIP IS from -50 °C to +120 °C
- Material: polyamide 6, halogen-free
- UV-resistant for up to 40 years
- UL approval with FIPLOCK conduit types

EN 61386-23
Flammability: UL 94 V0
Protection class IP69 according to
EN 60529



Cat. no.	Description / Sales cat. no.	NW	Thread	Thread length [mm]	Outside Ø [mm]	Inside Ø [mm]	Height [mm]	SW	Weight [g] / pc.	Packing unit	Colour
4890305000	ASPA-07M12PB	7	M12x 1.5	11	22.0	7.2	39.0	17	7.6	10	black
4890305200	ASPA-10M12PB	10	M12x 1.5	11	24.7	10.0	40.0	20	9.0	10	
4890305300	ASPA-10M16PB	10	M16x 1.5	11	24.7	10.0	40.0	20	9.6	10	
4890305400	ASPA-10M20PB	10	M20x 1.5	11	24.7	10.0	40.0	20	10.3	10	
4890305700	ASPA-12M16PB	12	M16x 1.5	11	28.5	9.0	42.0	22	12.0	10	
4890305800	ASPA-12M20PB	12	M20x 1.5	11	28.5	13.0	42.0	22	12.8	10	
4890306200	ASPA-17M20PB	17	M20x 1.5	11	34.0	13.0	51.1	27	18.6	10	
4890306300	ASPA-17M25PB	17	M25x 1.5	12	34.0	17.2	52.1	27	18.8	10	
4890306600	ASPA-23M25PB	23	M25x 1.5	12	41.7	18.0	52.1	36	27.6	6	
4890306700	ASPA-23M32PB	23	M32x 1.5	15	41.7	23.0	55.1	36	29.7	6	
4890307000	ASPA-29M32PB	29	M32x 1.5	15	48.4	25.0	55.4	41	32.0	6	
4890307100	ASPA-29M40PB	29	M40x 1.5	19	48.4	29.0	59.4	41	35.2	6	
4890307400	ASPA-36M40PB	36	M40x 1.5	19	59.7	31.9	72.8	52	67.7	4	
4890307500	ASPA-36M50PB	36	M50x 1.5	19	59.7	36.0	72.8	52	71.0	4	
4890307800	ASPA-48M50PB	48	M50x 1.5	19	71.0	41.9	72.8	65	89.9	4	
4890307900	ASPA-48M63PB	48	M63x 1.5	19	71.0	50.5	72.8	65	88.9	4	

Flexible corrugated plastic conduit accessories

FIPLOCK® ONE

AWPA-M



- 90° elbow threaded connector
- For IP66, IP67, IP68 and IP69 protection classes
- Temperature resistance range from -45 °C to +120 °C
- Temperature resistance acc. to FIP IS from -50 °C to +120 °C
- Material: PA6, halogen-free
- UV-resistant for up to 40 years
- UL approval with FIPLOCK conduit types

EN 61386-23

Flammability: UL 94 V0

Protection class IP69 according to EN 60529



Cat. no.	Description / Sales cat. no.	NW	Thread	Thread length [mm]	Out-side Ø [mm]	Inside Ø [mm]	Height [mm]	SW	Weight [g] / pc.	Pack- ing unit	Col- our
4890711000	AWPA-07M12PB	7	M12x 1.5	11	22.0	7.0	37.5	13	9.9	10	black
4890711200	AWPA-10M12PB	10	M12x 1.5	11	24.7	7.0	40.2	11	10.9	10	
4890711300	AWPA-10M16PB	10	M16x 1.5	11	24.7	10.0	40.2	14	12.1	10	
4890711400	AWPA-10M20PB	10	M20x 1.5	11	24.7	12.0	40.2	18	13.8	10	
4890711700	AWPA-12M16PB	12	M16x 1.5	11	28.5	10.0	44.0	14	14.8	10	
4890711800	AWPA-12M20PB	12	M20x 1.5	11	28.5	12.8	44.0	18	16.1	10	

AEPA-M



- 90° bend elbow threaded connector
- For IP66, IP67, IP68 and IP69 protection classes
- Temperature resistance range from -45 °C to +120 °C
- Temperature resistance acc. to FIP IS from -50 °C to +120 °C
- Material: PA6, halogen-free
- UV-resistant for up to 40 years
- UL approval with FIPLOCK conduit types

EN 61386-23

Flammability: UL 94 V0

Protection class IP69 according to EN 60529



Cat. no.	Description / Sales cat. no.	NW	Thread	Thread length [mm]	Out-side Ø [mm]	Inside Ø [mm]	Height [mm]	SW	Weight [g] / pc.	Pack- ing unit	Col- our
4890712200	AEPA-17M20PB	17	M20x 1.5	11	34.0	10.2	48.9	16	24.1	10	black
4890712300	AEPA-17M25PB	17	M25x 1.5	12	34.0	14.8	49.9	21	25.9	10	
4890712600	AEPA-23M25PB	23	M25x 1.5	12	41.7	15.9	62.7	21	33.9	6	
4890712700	AEPA-23M32PB	23	M32x 1.5	15	41.7	22.8	65.7	27	38.9	6	
4890713000	AEPA-29M32PB	29	M32x 1.5	15	48.2	21.3	72.1	27	46.5	6	
4890713100	AEPA-29M40PB	29	M40x 1.5	19	48.2	28.5	76.1	34	51.3	6	
4890713400	AEPA-36M40PB	36	M40x 1.5	19	59.7	30.2	90.8	36	95.3	4	
4890713500	AEPA-36M50PB	36	M50x 1.5	19	59.7	36.1	90.8	46	107.1	4	
4890713800	AEPA-48M50PB	48	M50x 1.5	19	71.0	38.9	102.0	46	114.2	4	
4890713900	AEPA-48M63PB	48	M63x 1.5	19	71.0	47.9	102.0	55	123.9	4	

All dimensions without tolerances are for reference only.

Flexible corrugated plastic conduit accessories

FIPLOCK® ONE

ACPA



- Corrugated conduit connector
- For IP66, IP67, IP68 and IP69 protection classes
- Temperature resistance range from -45 °C to +120 °C
- Temperature resistance acc. to FIP IS from -50 °C to +120 °C
- Material: PA6, halogen-free
- UV-resistant for up to 40 years
- UL approval with FIPLOCK conduit types

EN 61386-23
Flammability: UL 94 V0
Protection class IP69 according to
EN 60529



Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Height [mm]	Weight [g] / pc.	Packing unit	Colour
4891607400	ACPA-12B	12	28.5	58.8	18.0	10	black
4891607600	ACPA-17B	17	34.0	77.0	28.6	10	
4891607800	ACPA-23B	23	41.7	77.5	40.1	6	
4891608000	ACPA-29B	29	48.4	78.1	49.3	6	
4891608200	ACPA-36B	36	59.7	104.1	99.6	4	
4891608400	ACPA-48B	48	72.0	104.1	124.5	4	

COPA-S



- Corrugated conduit holder
- With undetachable safety cover
- Temperature resistance range from -45 °C to +120 °C
- Temperature resistance acc. to FIP IS from -50 °C to +120 °C
- Material: PA6, halogen-free
- With conduit anti-slip protection (rack)
- UV-resistant for up to 20 years

Flammability: UL 94 V0

Cat. no.	Description / Sales cat. no.	NW	Width [mm]	Depth [mm]	Height [mm]	Drilling	Weight [g] / pc.	Packing unit	Colour
4892121000	COPA-S-07B	7	20.0	19.5	22.0	4	3.6	10	black
4892121100	COPA-S-10B	10	20.0	22.0	25.0	5	4.2	10	
4892121300	COPA-S-12B	12	20.0	26.0	27.0	5	5.0	10	
4892121500	COPA-S-17B	17	20.0	33.0	34.0	6	6.9	10	
4892121700	COPA-S-23B	23	20.0	40.0	42.0	6	9.3	6	
4892121900	COPA-S-29B	29	20.0	46.5	48.0	6	11.1	6	
4892122100	COPA-S-36B	36	20.0	55.0	56.0	6	14.4	4	
4892122300	COPA-S-48B	48	20.0	67.0	68.0	6	19.9	4	

Flexible corrugated plastic conduit accessories

FIPLOCK®

PETP



Flammability: UL 94 V0



- Conduit edge protection, halogen-free
- Temperature resistance acc. to FIP IS from -40 °C to +120 °C
- Material: TPE, UV-resistant for up to 10 years
- Protects cables and wires

Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Wall thickness [mm]	Weight [g] / pc.	Pack unit	Colour
4892837000	PETP-07B	7	12.1	6.3	1.0	0.8	10	black
4892837100	PETP-10B	10	14.9	9.7	1.0	1.0	10	
4892837200	PETP-12B	12	17.8	12.2	1.0	1.2	10	
4892837300	PETP-17B	17	23.2	16.5	1.0	1.8	10	
4892837400	PETP-23B	23	31.1	22.9	1.2	3.1	10	
4892837500	PETP-29B	29	36.6	28.7	1.0	3.2	10	
4892837600	PETP-36B	36	45.0	33.8	1.2	5.7	10	
4892837700	PETP-48B	48	56.6	45.4	1.2	7.2	10	

PTTP



Flammability: UL 94 V0



- Conduit end sleeve, halogen-free
- Temperature resistance acc. to FIP IS from -40 °C to +150 °C
- Material: TPE, UV-resistant for up to 10 years
- Leak-tight cable outlet

Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Wall thickness [mm]	Weight [g] / pc.	Pack unit	Colour
4892839000	PTTP-07B	7	18.1	9.7	1.0	1.3	10	black
4892839100	PTTP-10B	10	20.9	12.5	1.0	1.8	10	
4892839200	PTTP-12B	12	23.8	15.4	1.0	2.4	10	
4892839300	PTTP-17B	17	29.2	20.7	1.0	3.3	10	
4892839400	PTTP-23B	23	36.5	28.0	1.2	4.7	10	
4892839500	PTTP-29B	29	41.4	32.9	1.0	6.0	10	
4892839600	PTTP-36B	36	48.7	40.0	1.2	7.8	10	
4892839700	PTTP-48B	48	60.2	51.5	1.2	11.9	10	

NTPA-M



Flammability: UL 94 HB



- Hexagonal locknut, halogen-free
- Temperature resistance acc. to FIP IS from -40 °C to +100 °C
- Material: fibre glass reinforced PA6, UV-resistant for up to 20 years
- For all metric plastic connection couplings

Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Wall thickness [mm]	Weight [g] / pc.	Pack unit	Colour
4897040000	NTPA-M12B	M12x1.5	17	18.7	5.0	1.0	10	black
4897040100	NTPA-M16B	M16x1.5	22	24.2	5.0	1.5	10	
4897040200	NTPA-M20B	M20x1.5	27	29.7	6.0	2.6	10	
4897040300	NTPA-M25B	M25x1.5	34	37.4	6.0	4.1	10	
4897040400	NTPA-M32B	M32x1.5	41	45.1	7.0	5.8	6	
4897040500	NTPA-M40B	M40x1.5	50	55.0	7.0	8.3	6	
4897040600	NTPA-M50B	M50x1.5	60	66.0	8.0	12.3	4	
4897040700	NTPA-M63B	M63x1.5	75	82.5	8.0	18.8	4	

All dimensions without tolerances are for reference only.

Metal cable ducts

FIPMETAL®

MC-DMA-PVC

44314


EN 61386-23
Minimum compressive strength:
1250 N/5 cm



- Flexible protective hose
- Heavy compressive strength
- High impact strength
- Temperature resistance range from -15 °C to +60 °C
- Material: galvanised steel strip / PVC-P
- With thin PVC sheathing
- Use threaded connector with yellow sealing ring

Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius	Colour
4870421020	MC-DMA-210-PVC.30	10	13.5	10.0	30	5.4	40	grey
4870421220	MC-DMA-212-PVC.30	12	15.7	12.0	30	6.0	50	
4870421620	MC-DMA-216-PVC.30	15.5	19.5	15.5	30	7.9	55	
4870422120	MC-DMA-221-PVC.30	20.5	24.7	20.5	30	10.2	60	
4870422720	MC-DMA-227-PVC.30	26.5	31.7	26.5	30	13.2	85	
4870423520	MC-DMA-235-PVC.30	34.5	40.0	34.5	30	17.4	120	
4870424021	MC-DMA-240-PVC.25	39.5	45.0	39.5	25	16.4	160	
4870425021	MC-DMA-250-PVC.25	50.5	56.0	50.5	25	19.6	200	
4870421012	MC-DMA-210-PVC.10	10	13.5	10.0	10	1.8	40	grey
4870421212	MC-DMA-212-PVC.10	12	15.7	12.0	10	2.0	50	
4870421612	MC-DMA-216-PVC.10	15.5	19.5	15.5	10	2.6	55	
4870422112	MC-DMA-221-PVC.10	20.5	24.7	20.5	10	3.4	60	
4870422712	MC-DMA-227-PVC.10	26.5	31.7	26.5	10	4.4	85	
4870423512	MC-DMA-235-PVC.10	34.5	40.0	34.5	10	5.8	120	
4870424013	MC-DMA-240-PVC.5	39.5	45.0	39.5	5	3.3	160	
4870425013	MC-DMA-250-PVC.5	50.5	56.0	50.5	5	3.9	200	

For suitable accessories, please refer to the Metal cable duct accessories section (pages 107–108).

Metal cable ducts

FIPMETAL®

MC-DMC-PVC

44314


- Flexible protective hose
- Heavy compressive strength
- High impact strength
- Temperature resistance range from -15 °C to +60 °C
- Material: galvanised steel strip / PVC-P
- With PVC sheathing
- Use threaded connector with blue sealing ring

EN 61386-23

 Minimum compressive strength:
1250 N/5 cm


Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Coil content [m]	Coil weight [kg]	Bend radius	Colour
4870921010	MC-DMC-210-PVC.30	10	15.5	10.0	30	7.5	50	grey
4870921210	MC-DMC-212-PVC.30	12	18.0	12.0	30	8.9	60	
4870921610	MC-DMC-216-PVC.30	15.5	21.5	15.5	30	10.7	70	
4870922110	MC-DMC-221-PVC.30	20.5	27.0	20.5	30	14.8	90	
4870922710	MC-DMC-227-PVC.30	26.5	35.0	26.5	30	19.6	120	
4870923510	MC-DMC-235-PVC.30	34.5	43.0	34.5	30	28.1	150	
4870924011	MC-DMC-240-PVC.25	39.5	48.0	39.5	25	25.5	200	
4870925011	MC-DMC-250-PVC.25	50.5	60.0	50.5	25	36.1	250	
4870921012	MC-DMC-210-PVC.10	10	15.5	10.0	10	2.5	50	grey
4870921212	MC-DMC-212-PVC.10	12	18.0	12.0	10	3.0	60	
4870921612	MC-DMC-216-PVC.10	15.5	21.5	15.5	10	3.6	70	
4870922112	MC-DMC-221-PVC.10	20.5	27.0	20.5	10	4.9	90	
4870922712	MC-DMC-227-PVC.10	26.5	35.0	26.5	10	6.5	120	
4870923512	MC-DMC-235-PVC.10	34.5	43.0	34.5	10	9.4	150	
4870924013	MC-DMC-240-PVC.5	39.5	48.0	39.5	5	5.1	200	
4870925013	MC-DMC-250-PVC.5	50.5	60.0	50.5	5	7.2	250	

For suitable accessories, please refer to the Metal cable duct accessories section (pages 107–108).

Metal cable ducts

MC-GAAR

44564



- Flexible protective hose
- Heavy compressive strength
- High impact strength
- Temperature resistance range from -45 °C to +250 °C
- Material: galvanised steel strip, halogen-free
- Use threaded connector with white sealing ring

EN 61386-23
Minimum compressive strength:
1250 N/5 cm

Cat. no.	Description / Sales cat. no.	NW	Outside Ø[mm]	Inside Ø[mm]	Coil content [m]	Coil weight [kg]	Bend radius	Colour
4870021040	MC-GAAR-210.30	10	13.0	10.0	30	4.4	30	silvery
4870021240	MC-GAAR-212.30	12	15.0	12.0	30	5.0	40	
4870021640	MC-GAAR-216.30	15.5	18.5	15.5	30	6.2	45	
4870022140	MC-GAAR-221.30	20.5	23.5	20.5	30	8.2	50	
4870022740	MC-GAAR-227.30	26.5	29.5	26.5	30	9.7	70	
4870023540	MC-GAAR-235.30	34.5	38.1	34.5	30	12.3	100	
4870024041	MC-GAAR-240.25	39.5	43.1	39.5	25	11.0	130	
4870025041	MC-GAAR-250.25	50.5	54.1	50.5	25	14.4	160	
4870021042	MC-GAAR-210.10	10	13.0	10.0	10	1.5	30	silvery
4870021242	MC-GAAR-212.10	12	15.0	12.0	10	1.7	40	
4870021642	MC-GAAR-216.10	15.5	18.5	15.5	10	2.1	45	
4870022142	MC-GAAR-221.10	20.5	23.5	20.5	10	2.7	50	
4870022742	MC-GAAR-227.10	26.5	29.5	26.5	10	3.2	70	
4870023542	MC-GAAR-235.10	34.5	38.1	34.5	10	4.1	100	
4870024043	MC-GAAR-240.5	39.5	43.1	39.5	5	2.2	130	
4870025043	MC-GAAR-250.5	50.5	54.1	50.5	5	2.9	160	

For suitable accessories, please refer to the Metal cable duct accessories section (pages 107–108).

Metal cable duct accessories

FIPMETAL®

MS-2-M



- Straight threaded connector
- Temperature resistance range from -45 °C to +120 °C
- Material: nickel-plated brass
- With sealings for GAAR, DMA-PVC and DMC-PVC

EN 60529
IP67 protection class



Cat. no.	Description / Sales cat. no.	NW	Thread	Thread Length [mm]	Length [mm]	Weight [g] / pc.	SW1	SW2	Pack- ing unit	Col- our
4961150041	MS-210-50041.5	10	M16x1.5	9.0	32.0	30.0	20	22	5	silvery
4961150043	MS-212-50043.5	12	M20x1.5	9.0	35.0	39.0	24	26	5	
4961150044	MS-216-50044.5	15.5	M20x1.5	9.0	35.5	46.0	27	29	5	
4961150045	MS-221-50045.5	20.5	M25x1.5	9.0	36.5	70.0	33	35	5	
4961150046	MS-227-50046.5	26.5	M32x1.5	11.0	44.0	190.0	43	45	5	
4961150047	MS-235-50047.5	34.5	M40x1.5	11.0	46.0	240.0	52	54	5	
4961150048	MS-240-50048.5	39.5	M50x1.5	14.0	48.0	410.0	60	62	5	
4961150049	MS-250-50049.4	50.5	M63x1.5	14.0	51.0	1025.0	74	77	4	

Metal cable duct accessories

FIPMETAL®

ME-E



- End sleeve
- Temperature resistance range from -45 °C to +120 °C
- Material: galvanised steel plate
- Injury protection due to overlapping sleeves

Cat. no.	Description / Sales cat. no.	NW	Outside Ø [mm]	Inside Ø [mm]	Length [mm]	Pack- ing unit	Colour
4963530011	ME-210-30011.5	10	16.9	8.5	15.5	5	silvery
4963530012	ME-212-30012.5	12	19.1	10.5	19.0	5	
4963530013	ME-216-30013.5	15.5	23.0	14.0	20.5	5	
4963530014	ME-221-30014.5	20.5	28.4	19.0	23.5	5	
4963530015	ME-227-30015.5	26.5	35.5	24.0	27.0	5	
4963530016	ME-235-30016.5	34.5	44.0	32.5	29.0	5	
4963530017	ME-240-30017.5	39.5	49.8	37.3	33.0	5	
4963530018	ME-250-30018.5	50.5	62.2	48.0	33.0	5	

NTBN-M

FIPLOCK®


- Hexagonal locknut
- Temperature resistance acc. to FIP IS from -60 °C to +200 °C
- Material: nickel-plated brass
- For all metric metal connection couplings

Cat. no.	Description / Sales cat. no.	Thread	SW	Outside Ø [mm]	Height [mm]	Weight [g] / pc.	Pack- ing unit	Colour
4897030004	NTBN-M12	M12x1.5	15	16.5	3.0	2.2	10	silvery
4897030104	NTBN-M16	M16x1.5	19	20.9	3.0	3.0	10	
4897030204	NTBN-M20	M20x1.5	24	26.4	3.5	5.8	10	
4897030304	NTBN-M25	M25x1.5	30	33.0	4.0	10.0	10	
4897030404	NTBN-M32	M32x1.5	36	39.6	4.0	11.0	6	
4897030504	NTBN-M40	M40x1.5	46	50.6	5.0	24.3	6	
4897030604	NTBN-M50	M50x1.5	60	65.0	5.0	47.3	4	
4897030704	NTBN-M63	M63x1.5	70	77.0	5.0	46.2	4	

Plastic cable ducts

FFKSS-SW

33414



EN 61386-23
Minimum compressive strength:
750 N/5 cm



- Spiral conduit with spring steel wire
- Medium compressive strength
- Medium impact strength
- Temperature resistance range from -25 °C to +60 °C
- Material: PVC-P / spring steel wire
- High abrasion protection
- UV-resistant for up to 10 years

Cat. no.	Description	NW	Outside Ø[mm]	Inside Ø[mm]	Coil content [m]	Coil weight [kg]	Bend radius	Colour
28121007	FFKSS-SW 7	7	10.0	7.0	50	3.0	10	grey
28121009	FFKSS-SW 9	9	14.0	10.0	50	6.0	14	
28121011	FFKSS-SW 11	11	17.0	13.0	50	6.5	17	
28121016	FFKSS-SW 16	16	21.0	16.0	50	9.5	21	
28121021	FFKSS-SW 21	21	27.0	21.0	50	12.5	27	
28121029	FFKSS-SW 29	29	36.0	30.0	25	9.5	36	
28121036	FFKSS-SW 36	36	45.0	38.0	25	15.3	45	
28121048	FFKSS-SW 48	48	56.0	48.0	25	19.8	56	

28120007	FFKSS-SW 7	7	10.0	7.0	10	0.6	10	grey
28120009	FFKSS-SW 9	9	14.0	10.0	10	1.2	14	
28120011	FFKSS-SW 11	11	17.0	13.0	10	1.3	17	
28120016	FFKSS-SW 16	16	21.0	16.0	10	1.9	21	
28120021	FFKSS-SW 21	21	27.0	21.0	10	2.5	27	
28120029	FFKSS-SW 29	29	36.0	30.0	10	3.8	36	
28120036	FFKSS-SW 36	36	45.0	38.0	10	6.1	45	
28120048	FFKSS-SW 48	48	56.0	48.0	10	7.9	56	

For suitable accessories, please refer to the Plastic spiral conduit accessories section (page 110).

TCXG

23114



EN 61386-23
Minimum compressive strength:
320 N/5 cm



- Spiral conduit with plastic coil
- Light compressive strength
- Medium impact strength
- Temperature resistance range from -5 °C to +60 °C
- Material: PVC / plastic coil
- High abrasion protection

Cat. no.	Description / Sales cat. no.	NW	Outside Ø[mm]	Inside Ø[mm]	Coil content [m]	Coil weight [kg]	Bend radius	Colour
4871501010	TCXG-10.30	10	14.7	10.0	30	2.1	15	light grey
4871501210	TCXG-12.30	12	16.4	12.0	30	2.3	16	
4871501610	TCXG-16.30	16	20.7	16.0	30	3.0	21	
4871502010	TCXG-20.30	20	24.7	20.0	30	3.8	25	
4871502510	TCXG-25.30	25	30.6	25.0	30	4.5	31	
4871503210	TCXG-32.30	32	38.0	32.0	30	7.2	38	
4871504010	TCXG-40.30	40	46.4	40.0	30	10.2	44	
4871505010	TCXG-50.30	50	57.2	50.0	30	12.9	57	

For suitable accessories, please refer to the Plastic spiral conduit accessories section (page 110).

Plastic cable duct accessories

FKV-SW-K M



EN 61386-23
Protection class IP54 according to
EN 60529



- Straight threaded connector for FFKSS-SW
- Material: PP
- Temperature resistance range from -25 °C to +105 °C
- With rotatable thread
- Temperature resistance acc. to. FIP IS from -40 °C to +110 °C

Cat. no.	Description	NW	Thread	Thread length [mm]	Length [mm]	Outside Ø [mm]	Inside Ø [mm]	Weight [g] / pc.	Packing unit	Colour
28162007	FFKV-SW-K 7M12	7	M12x1.5	7.5	41.0	18.7	5.5	5.0	10	grey
28162009	FFKV-SW-K 9M16	9	M16x1.5	8.5	44.0	22.0	8.8	7.0	10	
28162011	FFKV-SW-K 11M20	11	M20x1.5	9.0	47.5	26.4	11.1	9.0	10	
28162016	FFKV-SW-K 16M25	16	M25x1.5	10.0	52.0	32.8	14.8	15.0	10	
28162021	FFKV-SW-K 21M32	21	M32x1.5	11.0	55.0	39.3	19.4	21.0	10	
28162029	FFKV-SW-K 29M40	29	M40x1.5	12.0	57.8	50.2	27.9	34.0	2	
28162036	FFKV-SW-K 36M50	36	M50x1.5	13.0	61.0	60.0	35.6	49.0	2	
28162048	FFKV-SW-K 48M63	48	M63x1.5	13.5	63.0	71.0	45.9	70.0	2	

RCX-MG

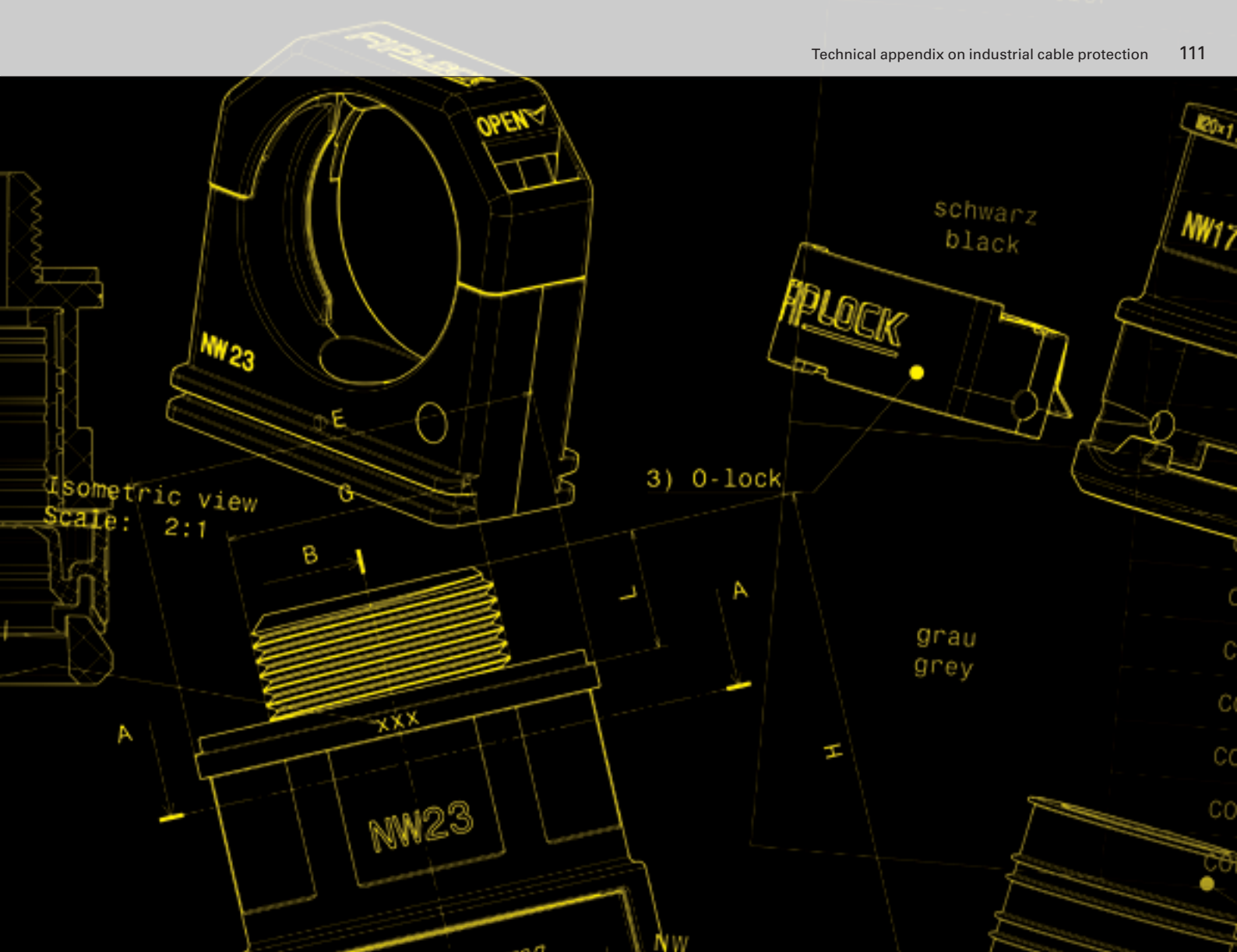


EN 61386-23
Protection class IP65 according to
EN 60529



- Straight threaded connector for TCXG
- Material: PVC
- Temperature resistance range from -5 °C to +60 °C
- With rotatable thread

Cat. no.	Description	NW	Thread	Length [mm]	Outside Ø [mm]	Inside Ø [mm]	Weight [g] / pc.	Packing unit	Colour
4961780060	RCX-MG-10-80060.5	10	M16x1.5	35.2	14.7	10.0	13	5	light grey
4961780061	RCX-MG-10-80061.5	12	M16x1.5	39.5	16.4	12.0	15	5	
4961780062	RCX-MG-10-80062.5	16	M20x1.5	44.5	20.7	16.0	25	5	
4961780063	RCX-MG-10-80063.5	20	M25x1.5	48.0	24.7	20.0	31	5	
4961780065	RCX-MG-10-80064.5	25	M32x1.5	54.0	30.6	25.0	42	5	
4961780066	RCX-MG-10-80065.5	32	M40x1.5	56.5	38.0	32.0	78	5	
4961780067	RCX-MG-10-80067.5	40	M50x1.5	62.0	46.4	40.0	100	5	
4961780068	RCX-MG-10-80068.5	50	M63x1.5	65.5	57.2	50.0	140	5	



Technical appendix on industrial cable protection

■ Definition of protection class

Definition of protection class

EN 60529 identifies protection classes by 4-digit codes. The two-letter abbreviation IP (International Protection) comes first and always remains the same. The levels of protection are complemented by two digits. The first digit indicates the level of protection against contact and foreign objects, the second digit indicates the level of protection against water.

For example:

IP54 (1st digit = 5 and 2nd digit = 4)

Protection levels against contact and foreign objects			Protection levels against water		
1st digit	Short description	Description	2nd digit	Short description	Description
0	No protection		0	No protection	
1	With diameter ≥ 50 mm	Protection against large-surface contact with the hand	1	Vertically falling drops of water	Vertically falling drops of water shall not have any harmful effect.
2	With diameter ≥ 12.5 mm	Protection against finger contact	2	Drops (15° incline of the test object)	Vertically falling drops of water shall not have any harmful effect.
3	With diameter ≥ 2.5 mm	Protection against contact with tools, wires or foreign objects	3	Spraying water (inclined up to 60°)	Water spraying at an angle from both sides shall have no harmful effect.
4	With diameter ≥ 1.0 mm	Protection against contact with tools, wires or foreign objects	4	Splashing water	Water splashing against the housing from any direction shall have no harmful effect.
5	Dust-protected	Protection against contact and against dust accumulating inside	5	Water jet	Impact of water in form of jets against the housing from any direction shall have no harmful effect.
6	Dust-tight	Protection against contact and against dust ingress	6	Heavy water jet under increased pressure	Impact of water in form of heavy jets against the housing from any direction shall have no harmful effect.
–	–	–	7	Temporary immersion	Water must not enter in harmful quantities if the housing is temporarily immersed in water under pressure.
–	–	–	8	Long-term immersion	Water must not enter in harmful quantities if the housing is permanently immersed in water.
–	–	–	9	High-pressure, steam-jet cleaning	Impact of water under increased pressure against the housing from any direction shall have no harmful effect.

Service

Technical consulting

Since technical developments cannot be foreseen, electrical installations should provide the possibility to be expanded at any time. If you generously install a system of conduits today, you can easily expand your electrical installations later. You save lots of time, money and effort!

We will be happy to help you with your technical questions. Prompt information can be obtained from our technical consultants at **+49 9525 88-8123**.

Advertising

Our catalogue portfolio features a number of interesting brochures such as our tried-and-tested Conduit guide for experts, or Planner guidebook for conduits.

We always have our latest documents at hand in order to ensure prompt delivery.

We will be happy to help you with creating catalogues, inserts, brochures, flyers, posters, ad banners, etc. and to provide you with printable images.

Please contact our marketing department: **marketing@fraenkische.de**.

Visit our websites

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Initiatives – Together for quality, reliability and service



Pictogram explanation

Industrial cable protection	
 Outdoor installation	 Industry
 Underground installation	 Solar industry
 Installation in cavities	 Wind energy
 Underfloor installation in screed	 Railway / transport
 Installation in concrete	 Railway track auxiliary applications
 Concealed installation	 Robotics
 Exposed installation	 Shipbuilding
 Installation in hot asphalt	 Chemistry
 Halogen-free No formation of corrosive gases in case of fire.	 Telecommunication
 Low smoke Thanks to very little development of smoke gas in case of fire, escape routes can be found more quickly.	 Other applications
 Non-flame propagating	

-  Permissible in normative terms and typical application
-  Permissible in normative terms
-  Not permissible in normative terms

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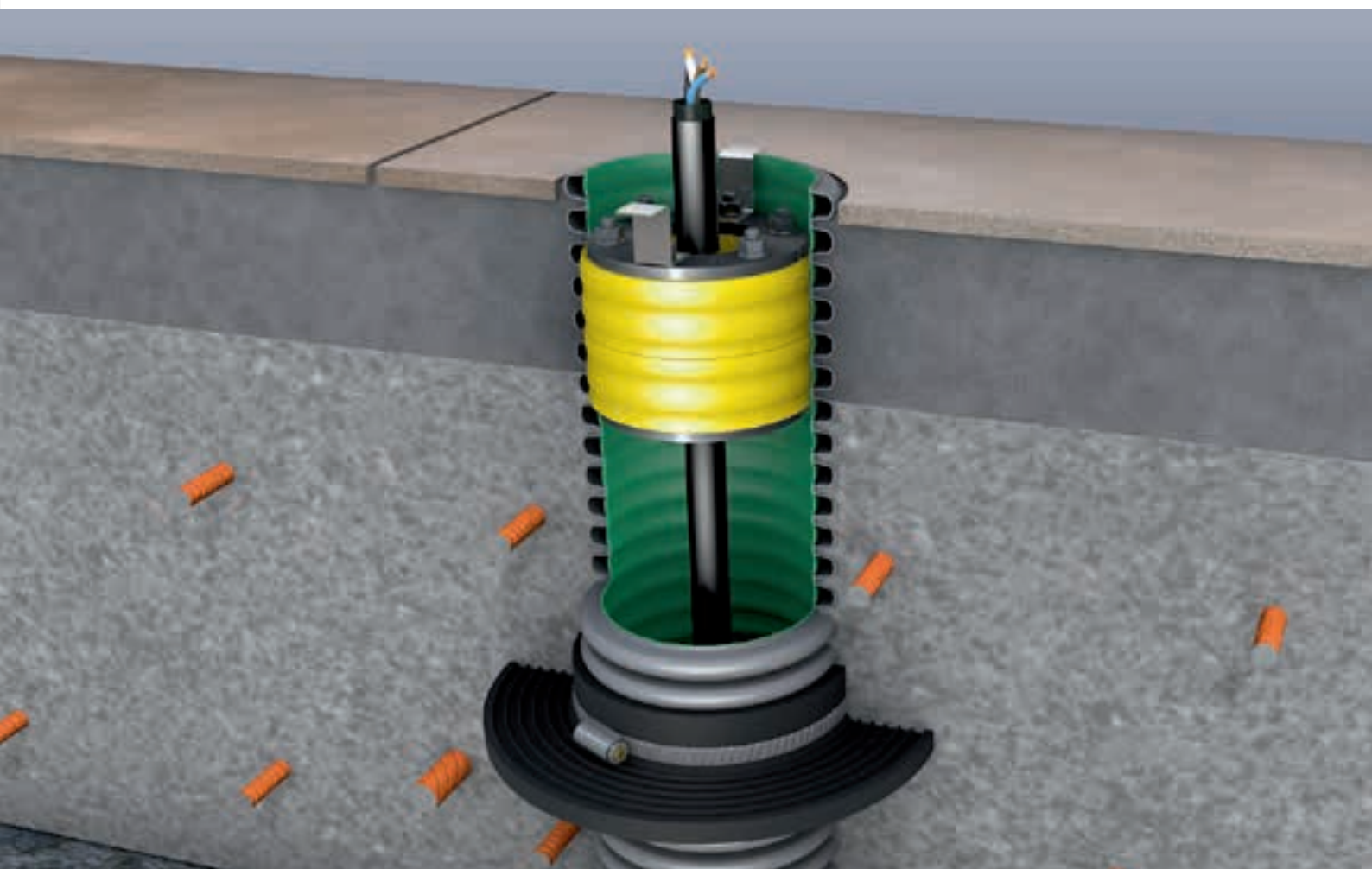
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- Gas-tight and water pressure-tight up to 1.5 bar
- Conformity with VDE-AR-N 4100, low voltage technical connection regulations (*Technische Anschlussregeln – TAR*) and technical connection requirements (*Technische Anschlussbedingungen – TAB*) 2019
- Internal sealing with 60 mm sealing width for more reliability





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