

FRÄNKISCHE Electrical Systems

Main Catalogue – Cable Ducts and Cable Ducting

ENERGY

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FUTURE



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DRAINAGE SYSTEMS
ELECTRICAL SYSTEMS
BUILDING TECHNOLOGY
INDUSTRIAL PRODUCTS

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FFMYD-UL C coarse

12



Material: PA6-MOD
Temperature resistance range according to UL 1696: -18°C to +105°C
Colour: black
Flammability: UL 94 V2 / non-flame propagating

FFMYD PA6

13



Material: PA6
Temperature resistance range according to DIN EN 61386-23: -45 °C to +120 °C
Temperature resistance range according to LV312-3: -40 °C to +120°C,
short-term temperature resistance +150 °C
Colour: black, grey, opaque
Flammability: UL 94 V2 / non-flame propagating

FFMYD-L

14



Material: PA6
Temperature resistance range according to DIN EN 61386-23: -25°C to +120°C
Temperature resistance range according to LV312-3: -40°C to +120°C,
short-term temperature resistance +150 °C
Colour: black
Flammability: UL 94 V2 / non-flame propagating

FFMYD PA12-BS

15



Material: PA12
Temperature resistance range according to DIN EN 61386-23: -45 °C to +105°C
Temperature resistance range according to LV312-3: -40°C to +110°C,
short-term temperature resistance +150 °C
Colour: black
Flammability: UL 94 V2 / non-flame propagating

FFHY

16



Material: TPE
Temperature resistance range according to DIN EN 61386-23: -45°C to +105°C
Temperature resistance range according to LV312-3: -40°C to +150°C,
short-term temperature resistance +180°C
Colour: black
Flammability: UL 94 HB / non-flame propagating

FFTYL-BS

17



Material: mod. PE-LD
Temperature resistance range according to DIN EN 61386-23: -45°C to +60°C
Temperature resistance range according to LV312-3: -40°C to +70°C,
short-term temperature resistance +90°C
Colour: black
Flammability: UL 94 HB / non-flame propagating

FFPYL-MOD-BS

18



Material: PP-MOD
Temperature resistance range according to DIN EN 61386-23: -15°C to +60°C
Temperature resistance range according to LV312-3: -40°C to +135°C,
short-term temperature resistance +150 °C
Colour: black
Flammability: UL 94 HB / non-flame propagating

FFPYL-MOD-BS-UV

19



Material: PP-MOD
Temperature resistance range according to LV312-3: -40°C to +105°C,
short-term temperature resistance +130°C
Colour: black
Flammability: UL 94 V2 / non-flame propagating

Table of contents: corrugated plastic conduit accessories

FKC Click metric 22 – 23



Material: PA6
Protection class: IP66/IP68
Temperature resistance range: –40 °C to +120 °C
Colour: black, grey
Characteristics: non-flame propagating

FKC-B45 Click metric 26 – 27



Material: PA6
Protection class: IP66/IP68
Temperature resistance range: –40°C to +120°C
Colour: black, grey
Characteristics: non-flame propagating

FKC-B90 Click Pg 29



Material: PA6
Protection class: IP66
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating

FKC-I Click metric 31



Material: PA6
Protection class: IP68
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating

FKC-S Click push-fit 33



Material: PA6
Protection class: IP66
Temperature resistance range: –40°C to +120°C
Colour: black, grey
Characteristics: non-flame propagating

FE-KA 35



Material: TPE
Temperature resistance range: –30°C to +150°C
Colour: black
Characteristics: non-flame propagating

FCL 36



Material: PA66
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating
Flammability: UL 94 HB

T-/Y-Snap-Lock 37



Material: PA66
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating
Flammability: UL 94 HB

FKC-B90 Click metric 24 – 25



Material: PA6
Protection class: IP66/IP68
Temperature resistance range: –40 °C to +120 °C
Colour: black, grey
Characteristics: non-flame propagating

FKC Click Pg 28



Material: PA6
Protection class: IP66
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating

FKC-B45 Click Pg 30



Material: PA6
Protection class: IP66
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating

FKC-Z Click metric 32



Material: PA6
Protection class: IP68
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating

FKC-M Click coupling 34



Material: PA6
Protection class: IP66/IP68
Temperature resistance range: –40°C to +120°C
Colour: black, grey
Characteristics: non-flame propagating

FE-K 35



Material: TPE
Temperature resistance range: –30°C to +150°C
Colour: black
Characteristics: non-flame propagating

FCLC 36



Material: PA66
Temperature resistance range: –40°C to +120°C
Colour: black
Characteristics: non-flame propagating
Flammability: UL 94 HB

FRS 37



Material: knives made of high-tensile special steel, handles made of glass fibre reinforced plastic
Diameter range: 12–25 mm

Table of contents: resealable corrugated conduits

Co-flex PP-UV

39



Material: PP-MOD

Temperature resistance range according to DIN EN 61386-23: -25°C to +105°C

Temperature resistance range according to LV312-3: -40°C to +105°C,

short-term temperature resistance +130°C

Colour: black

Characteristics: non-flame propagating

Flammability: UL 94 V2 / FMVSS 302

Co-flex PP black

40



Material: PP

Temperature resistance range according to DIN EN 61386-23: -25°C to +105°C

Temperature resistance range according to LV312-3: -40°C to +135°C,

short-term temperature resistance +150 °C

Colour: black

Characteristics: non-flame propagating

Flammability: UL 94 HB / FMVSS 302 type B

Co-flex PP white

41



Material: PP

Temperature resistance range according to DIN EN 61386-23: -25°C to +105°C

Temperature resistance range according to LV312-3: -40°C to +135°C,

short-term temperature resistance +150 °C

Colour: white

Characteristics: non-flame propagating

Flammability: UL 94 V2 / FMVSS 302 type B

Co-flex PA6

42



Material: PA6

Temperature resistance range according to DIN EN 61386-23: -25°C to +150°C

Temperature resistance range according to LV312-3: -40°C to +120°C,

short-term temperature resistance +150 °C

Colour: black

Characteristics: non-flame propagating

Flammability: UL 94 V2 / FMVSS 302

Table of contents: resealable corrugated conduit accessories

COS

43



Material: PA66
Temperature resistance range: -40°C to $+120^{\circ}\text{C}$
Colour: black
Characteristics: non-flame propagating
Flammability: self-extinguishing

Cofix

44



Material: PA66
Protection class: IP43
Temperature resistance range: -40°C to $+120^{\circ}\text{C}$
Colour: black
Characteristics: non-flame propagating
Flammability: UL 94 HB

COV

45



Material: PA6
Protection class: IP43
Temperature resistance range: -40°C to $+120^{\circ}\text{C}$
Colour: black
Characteristics: non-flame propagating
Flammability: UL 94 HB

Insertion tool

45



Material: PA6
Colour: black

Table of contents: metal cable ducts

FFMSS

47



Material: galvanized steel strip
Temperature resistance range: -45°C to $+400^{\circ}\text{C}$
Compressive strength: heavy
Classification: 43574

FFMSS-K-FD

48



Material: galvanized steel strip / PVC-P
Temperature resistance range: -25°C to $+60^{\circ}\text{C}$
Compressive strength: heavy
Characteristics: UV-resistant
Classification: 43414

FFMSS-K

49



Material: galvanized steel strip / PVC-P
Temperature resistance range: -25°C to $+60^{\circ}\text{C}$
Compressive strength: heavy
Characteristics: UV-resistant
Classification: 43414

FFMSS-G

50



Material: galvanized steel strip / metal braid
Temperature resistance range: -45°C to $+400^{\circ}\text{C}$
Compressive strength: heavy
Classification: 43574

FFMSS-VA

51



Material: stainless steel
Temperature resistance range: -45°C to $+400^{\circ}\text{C}$
Compressive strength: heavy
Classification: 43574

Table of contents: metal cable duct accessories

FMV M

53



Material: nickel-plated brass
Protection class: IP40
Temperature resistance range: -45°C to +400°C

FMV-FD M

53



Material: nickel-plated brass
Protection class: IP67
Temperature resistance range: -45°C to +120°C

FMV-W

54



Material: nickel-plated brass
Protection class: IP67
Temperature resistance range: -45°C to +120°C

FMV-I

54



Material: nickel-plated brass
Protection class: IP67
Temperature resistance range: -45°C to +120°C

FME

55



Material: nickel-plated brass
Temperature resistance range: -45°C to +400°C

Table of contents: plastic spiral conduits

FFKSS-SW

56



Material: PVC-P / spring steel wire
Temperature resistance range: -25°C to $+60^{\circ}\text{C}$
Compressive strength: heavy
Colour: grey
Characteristics: non-flame propagating, UV-resistant
Classification: 42414

FFKSS-KW

57



Material: PVC-P / hard plastic coil
Temperature resistance range: -25°C to $+60^{\circ}\text{C}$
Compressive strength: very light
Colour: grey
Characteristics: non-flame propagating, UV-resistant
Classification: 13414

FKV-SW M

58



Material: PE
Temperature resistance range: -40°C to $+110^{\circ}\text{C}$
Colour: grey
Characteristics: non-flame propagating

FKV-KW M

58



Material: PVC
Temperature resistance range: -20°C to $+80^{\circ}\text{C}$
Colour: grey
Characteristics: non-flame propagating

Table of contents: cable protection accessories

FMH M

59



Material: stainless steel V2A
Temperature resistance range: -45°C to +400°C
Bore suited for:
metric threads, Pg threads

FRMM

59



Type: reducer
Material: nickel-plated brass
Temperature resistance range: -45°C to +400°C
Thread: metric / metric

FEMM

59



Type: expansion
Material: nickel-plated brass
Temperature resistance range: -45°C to +400°C
Thread: metric / metric

FGKM

60



Material: PA6
Temperature resistance range: -40°C to +120°C
Colour: black
Thread: metric
Characteristics: non-flame propagating

FGMM

60



Material: nickel-plated brass
Temperature resistance range: -45°C to +400°C
Thread: metric

FDRM

60



Colour: grey
Temperature resistance range: -45°C to +150°C
Thread: metric

FGKP

61



Material: PA6
Temperature resistance range: -40°C to +120°C
Colour: black
Thread: Pg
Characteristics: non-flame propagating

FGMP

61



Material: nickel-plated brass
Temperature resistance range: -45°C to +400°C
Thread: Pg

Corrugated plastic conduits

FFMYD-UL C coarse



FFMYD-UL C coarse is a flexible corrugated conduit made of modified polyamide 6 with a coarse profile. It does not contain any halogens, is non-flame propagating and available in black.

This plastic corrugated conduit is used in machine and plant engineering. Advantages are its high temperature resistance and extreme cold impact strength.

Specific features:

This flexible plastic corrugated conduit provides high abrasion protection and is characterised by its high dynamic load capacity.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: PA6-MOD
- temperature resistance range according to UL 1696: -18°C to +105°C,
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Coarse profile

Cat. no.		Type	Outside Ø mm	Inside Ø mm	Bend radius * ≥ mm	Weight packing unit/kg	Packaging in m
black	grey						
282.20.017	282.20.517	17	21.1	16.1	30	3.3	50
282.20.023	282.20.523	23	28.5	22.4	40	4.9	50
282.20.029	282.20.529	29	34.7	28.3	50	6.7	50
282.20.036	282.20.536	36	42.3	35.8	65	4.0	25
282.20.048	282.20.548	48	54.5	46.7	90	5.7	25

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



Please refer to pages 22 et seq. for **FKC Click threaded connectors and accessories**

Corrugated plastic conduits

FFMYD PA6



FFMYD PA6 is a flexible corrugated polyamide 6 conduit. It does not contain any halogens, is non-flame propagating and available in black, grey and opaque.

This plastic corrugated conduit is used in machine and plant engineering. Advantages are its high-temperature resistance and cold impact strength in extreme temperatures.

Specific features:

This flexible plastic corrugated conduit provides high abrasion protection and is characterised by its high dynamic load capacity.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range according to DIN EN 61386-23: -45°C to +120°C
- temperature resistance range according to LV312-3: -40°C to +120°C, short-term temperature resistance up to +150°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2 / FMVSS 302 self-extinguishing

Cat. no.			Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Weight packing unit/kg	Packaging in m
black	grey	opaque						
400.007.00	402.007.00		7.5	10.0	6.6	11	0.9	50
400.010.00	402.010.00	401.010.00	10	12.8	9.8	15	1.3	50
400.012.00	402.012.00	401.012.00	12	15.7	12.3	20	1.7	50
400.017.00	402.017.00	401.017.00	17	21.1	16.6	30	2.8	50
400.023.00	402.023.00	401.023.00	23	28.4	23.1	40	4.5	50
400.029.00	402.029.00	401.029.00	29	34.5	28.9	50	3.1	25
400.037.00	402.037.00		37	42.2	34.0	65	4.3	25
400.050.00	402.050.00		50	53.8	45.6	90	5.6	25

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



Please refer to pages 22 et seq. for FKC Click threaded connectors and accessories

Corrugated plastic conduits

FFMYD-L



FFMYD-L is a flexible corrugated polyamide 6 conduit. It does not contain any halogens, is non-flame propagating and available in black.

This plastic corrugated conduit is used in machine and plant engineering. Advantages are its high-temperature resistance and cold impact strength in extreme temperatures.

Specific features:

This flexible plastic corrugated conduit provides high abrasion protection and is characterised by its high dynamic load capacity.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range according to DIN EN 61386-23: -25°C to +120°C
- temperature resistance range according to LV312-3: -40°C to +120°C, short-term temperature resistance up to +150°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2 / FMVSS 302 self-extinguishing

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Weight packing unit/kg	Packaging in m
400.007.08	7.5	10.0	6.8	11	0.7	50
400.010.08	10	12.8	10.0	15	0.9	50
400.012.08	12	15.7	12.5	20	1.2	50
400.017.08	17	21.1	16.8	30	2.0	50
400.023.08	23	28.4	23.4	40	3.2	50
400.029.08	29	34.5	29.2	50	2.1	25
400.037.08	37	41.8	34.0	65	3.0	25
400.050.08	50	53.8	46.0	90	4.0	25

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



Please refer to pages 22 et seq. for **FKC Click threaded connectors and accessories**

Corrugated plastic conduits

FFMYD PA12-BS



FFMYD PA12-BS is a flexible corrugated polyamide 12 conduit. It is non-flame propagating and available in black.

This plastic corrugated conduit is used in machine and plant engineering, and in robotics and automation. Advantages are its high-temperature resistance and cold impact strength in extreme temperatures.

Specific features:

This flexible plastic corrugated conduit provides high abrasion protection and is characterised by its very high dynamic load capacity.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: PA12
- temperature resistance range according to DIN EN 61386-23: -45°C to +105°C
- temperature resistance range according to LV312-3: -40°C to +110°C, short-term temperature resistance up to +150°C
- non-flame propagating
- flammability: UL 94 V2 / FMVSS 302 self-extinguishing

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Weight packing unit/kg	Packaging in m
black						
420.010.00	10	12.8	9.8	15	1.10	50
420.012.00	12	15.7	12.3	20	1.50	50
420.017.00	17	21.1	16.6	30	2.50	50
420.023.00	23	28.4	23.1	40	4.05	50
420.029.00	29	34.5	28.9	50	2.85	25
420.037.00	37	42.2	34.0	65	3.85	25

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



Please refer to pages 22 et seq. for **FKC Click threaded connectors and accessories**

Corrugated plastic conduits

FFHY



FFHY is a highly flexible corrugated thermoplastic elastomer (TPE) conduit. It does not contain any halogens, is non-flame propagating and available in black.

This plastic corrugated conduit is used in machine and plant engineering, and to protect hydraulic lines. Advantages are its high temperature resistance and cold impact strength in extreme temperatures.

Specific features:

This highly flexible plastic corrugated conduit provides good abrasion protection and is characterised by its high dynamic load capacity.

Characteristics:

Resistant to: fuels, hydraulic fluid and aromatic compounds

Limitedly resistant to: weak acids and bases, amines and glycols over +70 °C

Not resistant to: concentrated sulfuric acid, chlorinated hydrocarbons, phenols

Technical specifications:

- material: thermoplastic elastomer (TPE)
- temperature resistance range according to DIN EN 61386-23: -45°C to +105°C
- temperature resistance range according to LV312-3: -30°C to +150°C, short-term temperature resistance up to +180°C
- zero halogen
- non-flame propagating
- flammability: meets the requirements of UL 94 HB / FMVSS 302

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius * ≥ mm	Weight packing unit/kg	Packaging in m
black						
461.004.00	4.5	7.2	4.4	10	1.1	100
461.007.00	7.5	10.0	6.5	20	1.0	50
461.008.00	8.5	11.5	8.2	20	1.1	50
461.010.00	10	12.9	9.9	25	1.8	50
461.012.00	12	15.6	11.5	25	2.1	50
461.013.00	13	16.0	12.5	30	2.3	50
461.017.00	17	21.0	16.4	35	3.5	50
461.023.00	23	28.1	23.4	45	5.0	50
461.029.00	29	33.8	28.9	55	3.4	25
461.037.00	37	41.6	34.1	65	4.4	25

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



Please refer to pages 22 et seq. for **FKC Click threaded connectors and accessories**

Corrugated plastic conduits

FFTYL-BS



FFTYL-BS is a flexible corrugated conduit made of modified low-density polyethylene (PE-LD). It is non-flame propagating and available in black.

This corrugated conduit is used in control panel engineering and in light machine and equipment installations. An advantage is its cold impact strength in extreme temperatures.

Specific features:

This flexible plastic corrugated conduit is characterised by its good dynamic load capacity.

Characteristics:

Resistant to: acids, bases, inorganic salts, water and greases

Limitedly resistant to: alcohols, esters, ketones and mineral oils

Not resistant to: fuels, oxidising and aromatic compounds

Technical specifications:

- material: PE-LD, modified
- temperature resistance range according to DIN EN 61386-23: -45°C to +60°C
- temperature resistance range according to LV312-3: -40°C to +70°C, short-term temperature resistance up to +90°C
- non-flame propagating
- flammability: UL 94 HB / FMVSS 302; self-extinguishing

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Weight packing unit/kg	Packaging in m
black						
323.007.00	7.5	9.9	6.5	12	0.9	50
323.010.00	10	12.7	9.8	15	1.1	50
323.012.00	12	15.6	11.6	18	2.0	50
323.017.00	17	20.8	16.3	30	2.8	50
323.023.00	23	27.9	22.9	45	5.2	50
323.029.00	29	34.0	28.9	55	2.8	25
323.037.00	37	41.5	33.7	75	3.6	25
323.050.00	50	53.3	47.1	100	5.4	25

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



Please refer to pages 22 et seq. for FKC Click threaded connectors and accessories

Corrugated plastic conduits

FFPYL-MOD-BS



FFPYL-MOD-BS is a flexible corrugated conduit made of modified PP. It is non-flame propagating and available in black.

This plastic corrugated conduit is used in machine and plant engineering. An advantage is its cold impact strength in extreme temperatures.

Specific features:

This flexible plastic corrugated conduit provides good abrasion protection and is characterised by its high dynamic load capacity.

Characteristics:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Limitedly resistant to: ether

Not resistant to: halogenated, oxidising and aromatic compounds

Technical specifications:

- material: modified PP
- temperature resistance range according to DIN EN 61386-23: -15°C to +60°C
- temperature resistance range according to LV312-3: -40°C to +135°C, short-term temperature resistance up to +150°C
- non-flame propagating
- flammability: UL 94 HB / FMVSS 302 type B

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Weight packing unit/kg	Packaging in m
black						
366.007.00	7.5	9.9	6.9	16	0.6	50
366.010.00	10	12.6	10.1	20	0.8	50
366.012.00	12	15.6	12.0	25	1.2	50
366.017.00	17	21.0	16.8	35	1.9	50
366.023.00	23	28.0	23.7	45	2.2	50
366.029.00	29	33.9	29.3	55	1.7	25
366.037.00	37	41.6	35.8	60	3.1	25
366.050.00	50	53.2	45.2	120	3.3	25

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



Please refer to pages 22 et seq. for **FKC Click threaded connectors and accessories**

Corrugated plastic conduits

FFPYL-MOD-BS-UV



FFPYL-MOD-BS-UV is a flexible corrugated conduit made of modified PP. It is non-flame propagating and available in black.

This plastic corrugated conduit is used in the solar and photovoltaic industry, and in general outdoor applications. An advantage is its cold impact strength in extreme temperatures.

Specific features:

This flexible plastic corrugated conduit provides good abrasion protection and is characterised by its high dynamic load capacity. UV-resistant for up to 10 years.

Characteristics:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Limitedly resistant to: ether

Not resistant to: halogenated, oxidising and aromatic compounds

Technical specifications:

- material: modified PP
- temperature resistance range according to DIN EN 61386-23: -15°C to +60°C
- temperature resistance range according to LV312-3: -40°C to +135°C, short-term temperature resistance up to +150°C
- non-flame propagating
- flammability: UL 94 HB / FMVSS 302 type B
- UV-resistant

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Weight packing unit/kg	Packaging in m
black						
390.012.00	12	15.6	12.0	25	1.2	50
390.017.00	17	21.0	16.8	35	1.9	50
390.023.00	23	28.0	23.7	45	2.2	50
390.029.00	29	33.9	29.3	55	1.7	25
390.037.00	37	41.6	35.8	60	3.1	25
390.050.00	50	53.2	45.2	120	3.3	25

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



Please refer to pages 22 et seq. for **FKC Click threaded connectors and accessories**



Corrugated plastic conduit accessories FK Click

... conduit installation today – it's as easy as that:

Seize the benefits of FK Click threaded connectors:

- easy and quick to plug and unplug
- click lock mechanism ensures reliable connections
- protection against unintended conduit releases
- excellent haptics
- compact design
- small quantity packaging
- sealing reliability under dynamic conditions

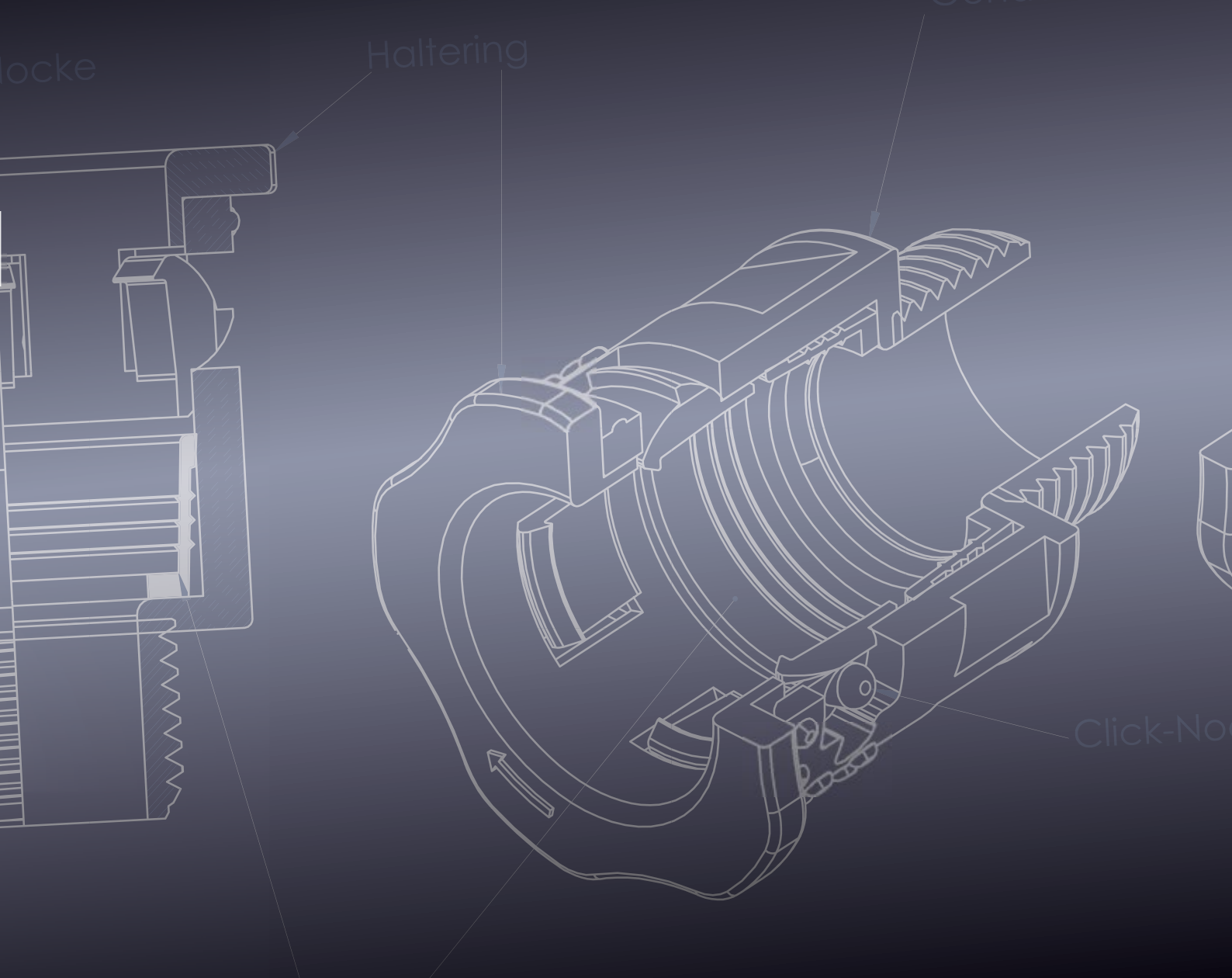


Conduit installation – it's as easy as that! The innovative click technology of the new FK Click only requires one action. This allows pipes and conduits to be connected easily also in narrow spaces.

The reliable connection that is established by the click lock mechanism can be released easily but still offers effective protection against unintended conduit releases.

The UL approval applies to all IP68 threaded connectors of sizes 17–48.





... now available in many different designs

Reliable conduit connections thanks to FKC Click:

- different colour clamps available for protection classes
- compressive and impact strength
- min. temperature resistance range: -40°C to +120°C
- resistant to: fuels, mineral oils, greases, alkaline substances

FRÄNKISCHE products have been developed and optimised with practical requirements in mind. This is why FKC Click threaded connectors are available in various designs.

This allows easy and quick installation under various conditions. The plug connectors are available in various designs as straight and 90° and 45° connectors.



Corrugated plastic conduit accessories

FKC Click metric IP66



DIN EN 60529
Protection class IP66¹⁾

FKC Click metric IP66 is a straight polyamide 6 threaded click connector with metric male thread. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Thread m.. x1.5	Inside Ø mm	Out- side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack- aging in pcs.
black	grey										
285.10.007	285.10.507	7.5	12	7.3	17.1	11.5	35.0	17.1	17.1	16	4
285.10.010	285.10.510	10	16	10.2	19.9	11.5	35.8	19.9	19.9	18	4
285.10.012	285.10.512	12	16	12.0	22.9	11.5	38.0	22.9	22.9	21	10
285.10.112	285.10.612	12	20	13.4	22.9	11.5	37.4	25.0	25.0	21	10
285.10.017	285.10.517	17	20	15.3	29.5	11.5	42.3	29.5	29.5	27	10
285.10.117	285.10.617	17	25	18.4	29.5	13.0	43.8	29.5	29.5	27	10
285.10.023	285.10.523	23	25	20.6	36.8	13.0	44.9	36.8	36.8	34	10
285.10.123	285.10.623	23	32	23.7	36.8	14.0	45.9	36.8	36.8	34	10
285.10.029	285.10.529	29	32	26.4	43.0	14.0	48.7	43.0	43.0	40	4
285.10.129	285.10.629	29	40	31.6	43.0	14.0	48.7	48.7	48.7	40	4
285.10.036	285.10.536	36 / 37	40	34.0	51.4	14.0	50.7	51.4	51.4	48	4
285.10.136	285.10.636	36 / 37	50	36.3	51.4	15.0	51.7	55.3	55.3	48	4
285.10.048	285.10.548	48 / 50	50	43.6	63.2	15.0	50.7	63.2	63.2	60	4
285.10.148	285.10.648	48 / 50	63	48.0	63.2	15.0	50.7	69.4	69.4	60	4



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC Click metric IP68



DIN EN 60529
Protection class IP68¹⁾



FKC Click metric IP68 is a straight polyamide 6 threaded click connector with metric male thread. It provides IP68 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Thread m.. x1.5	Inside Ø mm	Out- side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack- aging in pcs.
black	grey										
285.11.007	285.11.507	7.5	12	7.3	17.1	11.5	35.0	17.1	17.1	16	4
285.11.010	285.11.510	10	16	10.2	19.9	11.5	35.8	19.9	19.9	18	4
285.11.012	285.11.512	12	16	12.0	22.9	11.5	38.0	22.9	22.9	21	4
285.11.112	285.11.612	12	20	13.4	22.9	11.5	37.4	25.0	25.0	21	4
285.11.017*	285.11.517*	17	20	15.3	29.5	11.5	42.3	29.5	29.5	27	4
285.11.117*	285.11.617*	17	25	18.4	29.5	13.0	43.8	29.5	29.5	27	4
285.11.023*	285.11.523*	23	25	20.6	36.8	13.0	44.9	36.8	36.8	34	4
285.11.123*	285.11.623*	23	32	23.7	36.8	14.0	45.9	36.8	36.8	34	4
285.11.129*	285.11.629*	29	40	31.6	43.0	14.0	48.7	48.7	48.7	40	4
285.11.136*	285.11.636*	36 / 37	50	36.3	51.4	15.0	51.7	55.3	55.3	48	4
285.11.148*	285.11.648*	48 / 50	63	48.0	63.2	15.0	50.7	69.4	69.4	60	4

*UL 1696



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-B90 Click metric IP66



DIN EN 60529
Protection class IP66¹⁾

FKC-B90 Click metric IP66 is a 90° polyamide 6 click elbow with metric male thread. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Thread m.. x1.5	Inside Ø mm	Out-side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack-aging in pcs.
black	grey										
285.20.007	285.20.507	7.5	12	7.3	17.1	10.0	40.1	40.1	17.1	16	4
285.20.010	285.20.510	10	16	10.0	19.9	11.5	43.7	43.3	19.9	18	4
285.20.012	285.20.512	12	16	12.3	22.9	11.5	51.3	42.8	25.0	21	10
285.20.112	285.20.612	12	20	15.3	22.9	11.5	50.4	42.8	25.0	21	10
285.20.017	285.20.517	17	20	15.3	29.5	13.0	59.8	51.4	29.5	27	10
285.20.117	285.20.617	17	25	20.3	29.5	13.0	59.8	51.4	29.5	27	10
285.20.023	285.20.523	23	25	20.3	36.8	14.0	68.1	59.1	36.8	34	10
285.20.123	285.20.623	23	32	20.3	36.8	14.0	68.7	59.6	36.8	34	10
285.20.029	285.20.529	29	32	26.0	43.0	14.0	80.4	66.0	49.0	40	4
285.20.129	285.20.629	29	40	26.0	43.0	14.0	80.4	66.0	49.0	40	4
285.20.036	285.20.536	36 / 37	40	34.0	51.8	15.0	88.9	80.9	56.0	48	4
285.20.136	285.20.636	36 / 37	50	34.0	51.8	16.0	88.9	80.9	56.0	48	4
285.20.048	285.20.548	48 / 50	50	42.5	63.2	15.0	105.2	90.2	70.0	60	4
285.20.148	285.20.648	48 / 50	63	42.5	63.2	15.0	105.2	90.2	70.0	60	4



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMVD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-B90 Click metric IP68



DIN EN 60529
Protection class IP68¹⁾



FKC-B90 Click metric IP68 is a 90° polyamide 6 click elbow with metric male thread. It provides IP68 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Thread m.. x1.5	Inside Ø mm	Out- side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack- aging in pcs.
black	grey										
285.21.007	285.21.507	7.5	12	7.3	17.1	10.0	40.1	40.1	17.1	16	4
285.21.010	285.21.510	10	16	10.0	19.9	11.5	43.7	43.3	19.9	18	4
285.21.012	285.21.512	12	16	12.3	22.9	11.5	51.3	42.8	25.0	21	4
285.21.112	285.21.612	12	20	12.3	22.9	11.5	50.4	42.8	25.0	21	4
285.21.017*	285.21.517*	17	20	15.3	29.5	13.0	59.8	51.4	29.5	27	4
285.21.117*	285.21.617*	17	25	17.0	29.5	13.0	59.8	51.4	29.5	27	4
285.21.023*	285.21.523*	23	25	20.3	36.8	14.0	68.1	59.1	36.8	34	4
285.21.123*	285.21.623*	23	32	20.3	36.8	14.0	68.1	59.6	36.8	34	4
285.21.129*	285.21.629*	29	40	26.0	43.0	14.0	80.4	66.0	49.0	40	4
285.21.136*	285.21.636*	36 / 37	50	34.0	51.8	15.0	88.9	80.9	56.0	48	4
285.21.148*	285.21.648*	48 / 50	63	42.5	63.2	15.0	105.2	90.2	70.0	60	4

*UL 1696



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-B45 Click metric IP66



DIN EN 60529
Protection class IP66¹⁾

FKC-B45 Click metric IP66 is a 45° polyamide 6 click elbow with metric male thread. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Thread m.. x1.5	Inside Ø mm	Out- side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack- aging in pcs.
black	grey										
285.25.007	285.25.507	7.5	12	7.3	17.1	11.8	42.9	29.2	17.1	16	4
285.25.010	285.25.510	10	16	11.5	19.9	11.5	46.0	32.7	19.9	18	4
285.25.012	285.25.512	12	16	12.0	22.9	11.5	48.7	32.8	22.9	21	4
285.25.017	285.25.517	17	20	15.3	29.5	13.5	59.3	40.2	29.5	27	4
285.25.117	285.25.617	17	25	17.0	29.5	13.5	61.0	42.1	29.5	27	4
285.25.023	285.25.523	23	25	20.3	36.8	13.0	64.1	46.6	36.8	34	4
285.25.123	285.25.623	23	32	20.3	36.8	14.0	67.6	50.0	36.8	34	4
285.25.129	285.25.629	29	40	26.0	43.0	14.0	75.8	56.5	49.0	40	4
285.25.136	285.25.636	36 / 37	50	34.0	55.8	15.0	84.4	69.3	55.8	48	4
285.25.148	285.25.648	48 / 50	63	43.0	63.2	15.0	97.1	80.7	69.6	60	4



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-B45 Click metric IP68



DIN EN 60529
Protection class IP68¹⁾



FKC-B45 Click metric IP68 is a 45° polyamide 6 click elbow with metric male thread. It provides IP68 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Thread m.. x1.5	Inside Ø mm	Out- side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack- aging in pcs.
black	grey										
285.26.007	285.26.507	7.5	12	7.3	17.1	11.8	42.9	29.2	17.1	16	4
285.26.010	285.26.510	10	16	11.5	19.9	11.5	46.0	32.7	19.9	18	4
285.26.012	285.26.512	12	16	12.0	22.9	11.5	48.7	32.8	22.9	21	4
285.26.017*	285.26.517*	17	20	15.3	29.5	13.5	59.3	40.2	29.5	27	4
285.26.117*	285.26.617*	17	25	17.0	29.5	13.5	61.0	42.1	29.5	27	4
285.26.023*	285.26.523*	23	25	20.3	36.8	13.0	64.1	46.6	36.8	34	4
285.26.123*	285.26.623*	23	32	20.3	36.8	14.0	67.6	50.0	36.8	34	4
285.26.129*	285.26.629*	29	40	26.0	43.0	14.0	75.8	56.5	49.0	40	4
285.26.136*	285.26.636*	36 / 37	50	34.0	51.8	15.0	84.4	69.3	55.8	48	4
285.26.148*	285.26.648*	48 / 50	63	43.0	63.2	15.0	97.1	80.7	69.6	60	4

*UL 1696



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories



DIN EN 60529
Protection class IP66¹⁾

FKC Click Pg IP66

FKC Click Pg IP66 is a straight polyamide 6 threaded click connector with Pg male thread. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.	Type	Thread Pg	Inside Ø mm	Outside Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack-aging in pcs.
black										
285.60.007	7.5	7	7.3	17.1	11.5	35.0	17.1	17.1	16	4
285.60.010	10	9	10.0	19.9	11.5	35.8	19.9	19.9	18	4
285.60.012	12	11	12.3	22.9	11.5	37.4	25.0	25.0	21	10
285.60.017	17	16	17.0	29.5	13.0	43.8	29.5	29.5	27	10
285.60.023	23	21	23.7	36.8	13.0	44.9	36.8	36.8	34	10
285.60.029	29	29	30.6	43.0	14.0	45.9	43.0	43.0	40	4
285.60.036	36 / 37	36	36.3	51.4	15.2	48.4	52.8	52.8	48	4
285.60.048	48 / 50	48	48.0	63.2	15.2	50.7	64.5	64.5	60	4



Please refer to page 61 for **FGKP plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYP PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-B90 Click Pg IP66



DIN EN 60529
Protection class IP66¹⁾

FKC-B90 Click Pg IP66 is a 90° polyamide 6 click elbow with Pg male thread. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.	Type	Thread Pg	Inside Ø mm	Out-side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack-aging in pcs.
black										
285.70.007	7.5	7	7.3	17.1	10.0	40.1	40.1	17.1	16	4
285.70.010	10	9	10.0	19.9	11.5	43.7	43.3	19.9	18	4
285.70.012	12	11	14.3	22.9	11.5	51.3	42.8	25.0	21	4
285.70.017	17	16	17.0	29.5	13.0	59.8	51.2	29.5	27	4
285.70.023	23	21	20.3	36.8	13.0	68.2	58.6	36.8	34	4
285.70.029	29	29	26.0	43.0	14.0	80.4	66.0	49.0	40	4
285.70.036	36 / 37	36	34.0	51.8	16.0	88.9	80.9	56.0	48	4
285.70.048	48 / 50	48	42.5	63.2	15.0	105.2	94.0	70.0	60	4



Please refer to page 61 for **FGKP plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-B45 Click Pg IP66



DIN EN 60529
Protection class IP66¹⁾

FKC-B45 Click Pg IP66 is a 45° polyamide 6 click elbow with Pg male thread. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.	Type	Thread Pg	Inside Ø mm	Out-side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack-aging in pcs.
black										
285.75.007	7.5	7	7.3	17.1	11.5	43.1	29.4	17.1	16	4
285.75.010	10	9	11.5	19.9	11.5	45.6	32.2	19.9	18	4
285.75.012	12	11	12.3	22.9	11.5	50.2	33.7	22.9	21	4
285.75.017	17	16	16.6	29.5	13.0	60.1	41.3	29.5	27	4
285.75.023	23	21	20.3	36.8	14.0	65.5	48.0	36.8	34	4
285.75.029	29	29	26.0	43.0	15.0	75.8	56.6	49.0	40	4
285.75.036	36 / 37	36	34.0	51.8	15.0	84.4	69.9	56.0	48	4
285.75.048	48 / 50	48	43.0	63.2	15.0	97.1	80.0	69.6	60	4



Please refer to page 61 for **FGKP plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories



DIN EN 60529
Protection class IP68¹⁾



FKC-I Click metric IP68

FKC-I Click metric IP68 is a polyamide 6 threaded click connector with metric female thread. It provides IP68 protection, does not contain any halogens, is non-flame propagating and available in black.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.	Type	Thread m.. x1.5	Inside Ø mm	Out- side Ø mm	Thread length mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Pack- aging in pcs.
black										
285.41.010	10	16	10.0	19.9	11.5	36.3	19.9	19.9	18	4
285.41.012	12	20	12.5	22.9	11.5	38.0	22.9	22.9	21	4
285.41.017*	17	25	17.0	29.5	13.0	43.8	29.5	29.5	27	4
285.41.023*	23	32	23.3	36.8	14.0	45.4	36.8	36.8	34	4
285.41.029*	29	40	30.3	43.0	14.0	45.9	43.0	43.0	40	4
285.41.036*	36 / 37	50	36.3	54.6	15.0	47.4	54.6	54.6	48	4
285.41.048*	48 / 50	63	48.0	65.7	15.0	50.7	65.7	65.7	60	4

*UL 1696

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-Z Click metric IP68



DIN EN 60529
Protection class IP68¹⁾



FKC-Z Click metric IP68 is a polyamide 6 threaded click connector with metric male thread and strain relief. It provides IP68 protection, does not contain any halogens, is non-flame propagating and available in black.

This threaded connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases. Additional strain relief for wires and cables.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.	Type	Thread m.. x1.5	For cables Ø mm	Inside Ø mm	Outside Ø mm	Thread length mm	Ss1 mm	Pack- aging in pcs.
black								
285.46.010	10	12	3.0 – 6.5	6.8	19.9	8.0	15.0	4
285.46.012	12	16	5.0 – 10.0	10.7	23.4	10.0	22.0	4
285.46.017*	17	20	10.0 – 14.0	14.4	29.5	10.0	27.0	4
285.46.023*	23	25	13.0 – 18.0	18.3	36.8	10.0	33.0	4
285.46.029*	29	32	18.0 – 25.0	25.5	45.0	16.0	42.0	4
285.46.036*	36 / 37	40	22.0 – 32.0	33.0	58.0	18.0	53.0	4
285.46.048*	48 / 50	63	30.0 – 38.0	45.2	71.5	18.0	60.0	4

*UL 1696



Please refer to page 60 for **FGKM plastic locknuts**

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMYD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FKC-S Click plug connector IP66



DIN EN 60529
Protection class IP66¹⁾

FKC-S Click plug connector IP66 is a straight polyamide 6 click plug connector, including O-ring. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This plug connector is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Specific features:

The click lock mechanism protects against unintended conduit releases. Suited for wall thicknesses of 1 – 2.5 mm.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: –40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Cat. no.		Type	Inside Ø mm	Out-side Ø mm	Plug length mm	Total length mm	Total Width mm	Total Height mm	Bore Ø	Ss mm	Packaging in pcs.
black	grey										
285.50.010	285.50.510	10	10.0	19.9	14.0	38.3	18.6	18.6	15.0	18	4
285.50.012	285.50.512	12	12.3	22.9	14.0	40.5	23.5	23.5	18.0	21	4
285.50.017	285.50.517	17	17.0	29.5	14.4	44.8	26.4	26.4	22.0	27	4
285.50.023	285.50.523	23	23.3	36.8	17.1	49.0	37.0	37.0	28.0	34	4
285.50.029	285.50.529	29	30.0	43.0	18.3	50.5	45.4	45.4	37.0	40	4
285.50.036	285.50.536	36 / 37	36.3	51.4	19.9	53.4	53.2	53.2	47.0	48	4
285.50.048	285.50.548	48 / 50	45.5	63.2	14.5	50.1	54.5	54.5	50.0	60	4

Corrugated plastic conduit accessories



DIN EN 60529
Protection class
IP66¹⁾

FKC-M Click coupling IP66

FKC-M Click coupling IP66 is a polyamide 6 click coupling to connect two corrugated plastic conduits of the same type. It provides IP66 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This coupling is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Specific features:

The click lock mechanism protects against unintended conduit releases.

Cat. no.		Type	Inside Ø mm	Outside Ø mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Packaging in pcs.
black	grey								
285.80.012	285.80.512	12	12.3	22.9	53.0	22.9	22.9	21	5
285.80.017	285.80.517	17	16.6	29.5	61.5	29.5	29.5	27	5
285.80.023	285.80.523	23	23.1	36.8	61.7	36.8	36.8	34	5
285.80.029	285.80.529	29	29.3	42.7	61.7	42.7	42.7	40	5
285.80.036	285.80.536	36 / 37	34.0	51.2	64.7	51.2	51.2	48	5
285.80.048	285.80.548	48 / 50	45.6	63.2	71.3	63.1	63.1	60	5



DIN EN 60529
Protection class
IP68¹⁾



FKC-M Click coupling IP68

FKC-M Click coupling IP68 is a polyamide 6 click coupling to connect two corrugated plastic conduits of the same type. It provides IP68 protection, does not contain any halogens, is non-flame propagating and available in black and grey.

This coupling is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2

Specific features:

The click lock mechanism protects against unintended conduit releases.

Cat. no.		Type	Inside Ø mm	Outside Ø mm	Total length mm	Total Width mm	Total Height mm	Ss mm	Packaging in pcs.
black	grey								
285.81.012	285.81.512	12	12.3	22.9	53.0	22.9	22.9	21	5
285.81.017*	285.81.517*	17	16.6	29.5	61.5	29.5	29.5	27	5
285.81.023*	285.81.523*	23	23.1	36.8	61.7	36.8	36.8	34	5
285.81.029*	285.81.529*	29	29.3	42.7	61.7	42.7	42.7	40	5
285.81.036*	285.81.536*	36 / 37	34.0	51.2	64.7	51.2	51.2	48	5
285.81.048*	285.81.548*	48 / 50	45.6	63.2	71.3	63.2	63.2	60	5

*UL 1696

All dimensions without tolerances are for reference only.

¹⁾ Protection class test in the system using FFMVD PA6 corrugated plastic conduit.

Corrugated plastic conduit accessories

FE-KA



FE-KA is a one-piece plastic end cap made of TPE to connect to cables. It does not contain any halogens, is non-flame propagating and available in black.

This end cap is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits and edge protection.

Characteristics:

Resistant to: fuels, hydraulic fluid and aromatic compounds

Limitedly resistant to: weak acids and bases, amines and glycols over +70°C

Not resistant to: concentrated sulfuric acid, chlorinated hydrocarbons, phenols

Technical specifications:

- material: thermoplastic elastomer (TPE)
- temperature resistance range: -30°C to +150°C, short-term temperature resistance up to +180°C
- zero halogen
- non-flame propagating

Cat. no.	Type	For cables Ø mm	Inside Ø mm	Outside Ø mm	Total length mm	Total Width mm	Total Height mm	Pack- aging in pcs.
black								
285.91.007	7.5	1.0 – 8.0	9.7	18.1	29.0	18.1	18.1	5
285.91.010	10	1.0 – 10.0	12.5	20.9	32.5	20.9	20.9	10
285.91.012	12	4.0 – 12.0	15.4	23.8	36.5	23.8	23.8	25
285.91.017	17	6.0 – 16.5	20.7	29.2	37.5	29.2	29.2	25
285.91.023	23	6.0 – 23.0	28.0	36.5	40.2	36.5	36.5	25
285.91.029	29	6.0 – 29.0	32.9	41.4	44.2	41.4	41.4	25
285.91.036	36 / 37	10.0 – 37.0	40.0	48.7	46.0	48.7	48.7	10
285.91.048	48 / 50	10.0 – 47.0	51.5	60.2	52.0	60.2	60.2	5

FE-K



FE-K is a one-piece plastic end cap made of TPE. It does not contain any halogens, is non-flame propagating and available in black and grey.

This end cap is used for corrugated plastic conduits. Advantages are quick and easy push-fit assembly and disassembly of corrugated plastic conduits and edge protection.

Characteristics:

Resistant to: fuels, hydraulic fluid and aromatic compounds

Limitedly resistant to: weak acids and bases, amines and glycols over +70°C

Not resistant to: concentrated sulfuric acid, chlorinated hydrocarbons, phenols

Technical specifications:

- material: TPE
- temperature resistance range: -30°C to +150°C, short-term temperature resistance up to +180°C
- zero halogen
- non-flame propagating

Cat. no.		Type	Inside Ø mm	Outside Ø mm	Total length mm	Total width mm	Total height mm	Pack- aging in pcs.
black	grey							
285.90.007	285.90.507	7.5	6.3	12.1	20.0	12.1	12.1	5
285.90.010	285.90.510	10	9.7	14.9	20.0	14.9	14.9	10
285.90.012	285.90.512	12	12.2	17.8	20.0	17.8	17.8	25
285.90.017	285.90.517	17	16.5	23.2	21.0	23.2	23.2	25
285.90.023	285.90.523	23	22.9	31.1	21.0	31.1	31.1	25
285.90.029	285.90.529	29	28.7	36.6	22.0	36.6	36.6	25
285.90.036	285.90.536	36 / 37	33.8	45.0	24.0	45.0	45.0	10
285.90.048	285.90.548	48 / 50	45.4	56.6	25.2	56.6	56.6	5

Corrugated plastic conduit accessories

FCL



FCL is a corrugated plastic conduit holder made of polyamide 66. It does not contain any halogens, is non-flame propagating and available in black.

This conduit holder is used for all corrugated plastic conduits. An advantage is the "limit stop" which prevents the corrugated plastic conduit from shifting.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 66 (PA66)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 HB

Cat. no.	Type	Total width mm	Total height mm	Total depth mm	Bore Ø mm	Packaging in pcs.
black						
489.40.070	7.5	13.4	20.0	15.0	4.5	50
489.40.100	10	17.4	25.3	15.0	4.5	50
489.40.120	12	19.7	25.4	15.0	4.5	50
489.40.170	17	24.0	29.7	15.0	4.5	25
489.40.230	23	32.2	38.3	15.0	4.5	25
489.40.290	29	39.5	45.0	15.0	4.5	25
489.40.370	37	48.2	53.7	15.0	6.5	10
489.40.500	50	60.0	65.6	15.0	6.5	10

FCLC



FCLC is a polyamide 66 cover lid. It does not contain any halogens, is non-flame propagating and available in black.

This cover lid is used for sealing FCL corrugated plastic conduit holders. An advantage is the secure sealing of the corrugated conduit holder.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 66 (PA66)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 HB

Cat. no.	Type	Total width mm	Total depth mm	Packaging in pcs.
black				
489.40.071	7.5	13.4	15.0	50
489.40.101	10	18.6	15.0	50
489.40.121	12	20.8	15.0	50
489.40.171	17	24.0	15.0	25
489.40.231	23	35.8	15.0	25
489.40.291	29	40.5	15.0	25
489.40.371	37	53.2	15.0	10
489.40.501	50	60.0	15.0	10

Corrugated plastic conduit accessories

Connectors

Snap-Lock is a tee/wye connector made of polyamide 66. It does not contain any halogens, is non-flame propagating and available in black.

This tee/wye is used to connect three corrugated plastic conduits. Advantages are the reliable securing of branches and at the transition to other corrugated plastic conduits.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 66 (PA66)
- temperature resistance range: -40°C to $+120^{\circ}\text{C}$, short-term temperature resistance up to $+140^{\circ}\text{C}$
- zero halogen
- non-flame propagating
- flammability: UL 94 HB

T-Snap-Lock



Cat. no.	Type	Name	Packaging in pcs.
black			
492.15.070	7.5-7.5-7.5	T-Snap-Lock	100
492.17.100	10.0-7.5-7.5	T-Snap-Lock	100
492.16.101	10.0-7.5-10.0	T-Snap-Lock	100
492.16.103	10.0-10.0-7.5	T-Snap-Lock	100
492.15.100	10.0-10.0-10.0	T-Snap-Lock	100
492.16.170	17.0-7.5-17.0	T-Snap-Lock	100
492.16.172	17.0-10.0-17.0	T-Snap-Lock	100
492.16.173	17.0-17.0-7.5	T-Snap-Lock	100
492.15.170	17.0-17.0-17.0	T-Snap-Lock	100

Y-Snap-Lock



Cat. no.	Type	Name	Packaging in pcs.
black			
492.65.070	7.5-7.5-7.5	Y-Snap-Lock	100
492.65.100	10.0-10.0-10.0	Y-Snap-Lock	100

FRS



FRS is a pipe cutter with knives made of high-tensile special steel, cured in oil and tempered. The ergonomically designed handles are made of glass fibre reinforced plastic.

The cutter is used to cut plastic conduits in diameters ranging from 12 to 25 mm in exact right angles. Advantages are clean, smooth and burr-free cuts. Not suited to cut cables.

Technical specifications:

- material: knives made of high-tensile special steel, handles made of glass fibre reinforced plastic

Cat. no.	Type	Total length mm	Weight packing unit/kg	Packaging in pcs.
259.99.025	25	185.0	0.180	1



Co-flex

It's as easy as that:

- two-piece conduit with "zipper system"
- retrofit protection without disconnecting
- more safety
 - for photovoltaic power plants
 - for SAT units
 - for air conditioning units
 - in the office
 - in craft, industry and trade
 - at home and in the garden
 - for vehicles and trailers

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Resealable corrugated conduits



Co-flex PP-UV

Co-flex PP-UV is a resealable, slit corrugated conduit made of PP-MOD-BS-UV. It is non-flame propagating and available in black.

This corrugated conduit is intended for installation outdoors. Its main fields of application are solar collectors, SAT units and photovoltaic power plants. Advantages are its resistance to high temperatures and protection against damage from mar-ten and rodent bites.

Specific features:

This two-piece corrugated conduit can be easily retrofitted to an existing conduit. To begin the installation open the conduit, then insert the cable in the conduit. Close slit by slipping over the outside conduit. UV-resistant for up to 10 years.

Characteristics:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Limitedly resistant to: ether

Not resistant to: halogenated, oxidising and aromatic compounds

Technical specifications:

- material: modified PP
- temperature resistance range according to DIN EN 61386-23: -25°C to +105°C
- temperature resistance range according to LV312-3: -40°C to +105°C, short-term temperature resistance up to +130°C
- non-flame propagating
- flammability: UL 94 V2 / FMVSS 302
- UV-resistant

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
384.006.00	6	10	6.3	40	50
384.010.00	10	13.6	8.7	70	50
384.011.00	11	16.1	11.0	80	50
384.014.00	14	18.5	12.2	95	50
384.016.00	16	21.5	16.0	100	50
384.020.00	20	25.5	19.5	130	50
384.023.00	23	31.0	24.2	155	50
384.029.00	29	35.5	27.3	160	25
384.037.00	37	41.4	31.0	205	25
384.045.00	45	54.0	42.7	190	25
384.070.00	70	79.8	66.5	375	10
384.100.00	100	102.5	87.5	500	10

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
384.010.02	10	13.6	8.7	70	10
384.014.02	14	18.5	12.2	95	10
384.020.02	20	25.5	19.5	130	10
384.023.02	23	31.0	24.2	155	10
384.037.02	37	41.4	31.0	205	10
384.045.02	45	54.0	42.7	190	10

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



Please refer to pages 43 et seq. for **COV** or **Cofix threaded connectors and accessories**

Resealable corrugated conduits

Co-flex PP black



Co-flex PP black is a resealable, slit corrugated conduit made of PP-MOD-BS. It is non-flame propagating and available in black.

This corrugated conduit is used to retrofit cables and wires in machine and plant engineering for protection, and for office and private applications. Advantages are its resistance to high temperatures and protection against damage from marten and rodent bites.

Specific features:

This two-piece corrugated conduit can be easily retrofitted to an existing conduit. To begin the installation open the conduit, then insert the cable in the conduit. Close slit by slipping over the outside conduit.

Characteristics:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Limitedly resistant to: ether

Not resistant to: halogenated, oxidising and aromatic compounds

Technical specifications:

- material: PP-MOD-BS
- temperature resistance range according to DIN EN 61386-23: -25°C to +105°C
- temperature resistance range according to LV312-3: -40°C to +135°C, short-term temperature resistance up to +150°C
- non-flame propagating
- flammability: UL 94 HB / FMVSS 302 type B

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
370.006.00	6	10.0	6.3	40	50
370.010.00	10	13.4	8.4	70	50
370.011.00	11	16.1	11.0	80	50
370.014.00	14	18.5	12.5	95	50
370.016.00	16	21.5	16.0	100	50
370.020.00	20	25.3	19.2	130	50
370.023.00	23	30.8	23.4	155	50
370.029.00	29	35.5	27.3	160	25
370.037.00	37	41.4	31.0	205	25
370.045.00	45	54.0	42.7	190	25
370.070.00	70	79.8	66.5	375	10
370.100.00	100	102.5	87.5	500	10

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
370.010.02	10	13.4	8.4	70	10
370.014.02	14	18.5	12.5	95	10
370.020.02	20	25.3	19.2	130	10
370.023.02	23	30.8	23.4	155	10
370.037.02	37	41.4	31.0	205	10
370.045.02	45	54.0	42.7	190	10

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
370.010.03	10	13.4	8.4	70	5
370.014.03	14	18.5	12.5	95	5
370.020.03	20	25.3	19.2	130	5
370.023.03	23	30.8	23.4	155	5
370.037.03	37	41.4	31.0	205	5
370.045.03	45	54.0	42.7	190	5

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

All dimensions without tolerances are for reference only.

Resealable corrugated conduits

Co-flex PP white



Co-flex PP white is a resealable, slit corrugated conduit made of PP-MOD-BS. It is non-flame propagating and available in white.

This corrugated conduit is used for audio/HIFI systems, office wiring, shipbuilding, medical instruments, such as X-ray units and tomographs, hospital beds and the furniture industry. Advantages are its resistance to high temperatures and protection against damage from marten and rodent bites.

Specific features:

This two-piece corrugated conduit can be easily retrofitted to an existing conduit. To begin the installation open the conduit, then insert the cable in the conduit. Close slit by slipping over the outside conduit.

Characteristics:

Resistant to: acids, bases, inorganic salts, fuels, mineral oils, greases and most common solvents

Limitedly resistant to: ether

Not resistant to: halogenated, oxidising and aromatic compounds

Technical specifications:

- material: PP-MOD-BS
- temperature resistance range according to DIN EN 61386-23: -25°C to +105°C
- temperature resistance range according to LV312-3: -40°C to +135°C, short-term temperature resistance up to +150°C
- non-flame propagating
- flammability: UL 94 HB / FMVSS 302 type B

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
white					
384.020.10	20	25.3	19.2	130	50

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



Please refer to pages 43 et seq. for **COV** or **Cofix threaded connectors and accessories**

Resealable corrugated conduits

Co-flex PA6



Co-flex PA6 is a resealable, slit corrugated conduit made of polyamide 6. It is non-flame propagating, does not contain any halogens and is available in black.

This corrugated conduit is used to retrofit computers and TV racks for protection, in control panel engineering, in automobile installations and in the electrical appliances industry. Advantages are its resistance to high temperatures and protection against damage from marten and rodent bites.

Specific features:

This two-piece corrugated conduit can be easily retrofitted to an existing conduit. To begin the installation open the conduit, then insert the cable in the conduit. Close slit by slipping over the outside conduit.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range according to DIN EN 61386-23: -45°C to +120°C
- temperature resistance range according to LV312-3: -40°C to +120°C, short-term temperature resistance up to +150°C
- zero halogen
- non-flame propagating
- flammability: UL 94 V2/ FMVSS 302

Cat. no. black	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
410.006.00	6	10.0	6.3	45	50
410.010.00	10	13.5	8.8	55	50
410.011.00	11	16.1	11.0	65	50
410.014.00	14	18.7	13.2	75	50
410.016.00	16	21.5	16.0	85	50
410.020.00	20	25.7	20.2	105	50
410.023.00	23	31.3	23.9	125	50
410.029.00	29	35.5	27.3	140	25
410.037.00	37	43.2	32.5	170	25
410.045.00	45	54.2	43.1	170	25
410.070.00	70	79.8	66.0	300	10
410.100.00	100	102.5	87.5	400	10

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



Please refer to pages 43 et seq. for **COV** or **Cofix threaded connectors and accessories**

Resealable corrugated conduit accessories

COS



COS is a fixing clip with an integrated polyamide 66 ledge. It does not contain any halogens, is non-flame propagating and available in black.

This fixing clip is used to secure Co-flex corrugated conduits.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 66 (PA66)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: self-extinguishing

Cat. no.	Type	Total width mm	Total depth mm	Total height mm	Bore Ø mm	Packaging in pcs.
black						
491.20.006	6	15.0	20.0	17.5	M3	100
491.20.100	10	18.5	20.0	21.0	M3	100
491.20.102*	10	18.5	20.0	21.0	M5	100
491.20.110	11	21.0	20.0	22.5	M3	100
491.20.140	14	24.0	20.0	25.5	M3	100
491.20.142*	14	24.0	20.0	25.5	M5	100
491.20.160	16	30.0	20.0	33.0	M5	100
491.20.162*	16	30.0	20.0	33.0	M6	100
491.20.200	20	35.0	20.0	36.0	M5	50
491.20.202*	20	35.0	20.0	36.0	M6	50
491.20.230	23	42.0	20.0	43.5	M5	50
491.20.232*	23	42.0	20.0	43.5	M6	50
491.20.290	29	48.0	20.0	48.5	M5	50
491.20.292*	29	48.0	20.0	48.5	M6	50
491.20.370	37	55.0	20.0	56.5	M6	20
491.20.450	45	67.0	20.0	68.0	M6	20
491.20.700	70	100.0	20.0	101.0	M6	10

* new nominal diameters

Resealable corrugated conduit accessories

Cofix

Cofix is a two-piece threaded connector and two-piece locknut with metric thread made of polyamide 66. It does not contain any halogens, is non-flame propagating and available in black.

This two-piece threaded connector is especially used together with the two-piece nut to connect Co-flex conduits to manifolds and devices. The advantage is that the threaded connector and the locknut are two-piece.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 66 (PA66)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 HB

Cofix threaded connector



DIN EN 60529
Protection class IP43

Cat. no. black	Type	Thread m. x 1.5	Total length mm	Ss mm	Packaging in pcs.
491.10.102	10	16	34.0	19	100
491.10.142	14	20	41.0	27	100
491.10.202	20	25	43.0	30	50
491.10.232	23	32	50.5	36	50
491.10.372	37	40	59.0	46	25
491.10.452	45	50	67.5	55	25

Cofix locknut



DIN EN 60529
Protection class IP43

Cat. no. black	Type	Thread m. x 1.5	Total length mm	Ss mm	Packaging in pcs.
491.12.101	10	16	8	19	100
491.12.141	14	20	8	27	100
491.12.201	20	25	9	30	50
491.12.231	23	32	12	36	50
491.12.371	37	40	15	46	25
491.12.451	45	50	15	55	25

All dimensions without tolerances are for reference only.

Resealable corrugated conduit accessories

COV



COV is a two-piece threaded connector and two-piece locknut with Pg thread made of polyamide 6. It does not contain any halogens, is non-flame propagating and available in black.

This two-piece threaded connector is especially used together with the two-piece nut to connect Co-flex conduits to manifolds and devices. The advantage is that the threaded connector and the locknut are two-piece.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to +120°C, short-term temperature resistance up to +140°C
- zero halogen
- non-flame propagating
- flammability: UL 94 HB

DIN EN 60529
Protection class IP43

Cat. no.	Type	Thread Pg	Inside Ø mm	Total length mm	Thread length mm	Nut width mm	Packaging in pcs.
black							
491.10.100	10	9	9	27	12	11	100
491.10.140	14	13.5	13	34	17	14	100
491.10.200	20	21	20	34	17	14	50
491.10.230	23	29	31	42	21	17	50
491.10.370	37	29	31	50	22	17	25

Threaded connector locknut included

Insertion tool



Polyamide 6 insertion tool with handle, non-flame propagating and available in black.

This tool is used to insert cables in Co-flex corrugated conduits and slit corrugated plastic conduits. Suitable for sizes ranging from 7.5 to 34 mm.

Characteristics:

Resistant to: fuels, mineral oils, greases, alkaline substances and most common solvents

Limitedly resistant to: bases, also diluted solutions of bases

Not resistant to: acids, halogens and oxidative compounds

Technical specifications:

- material: polyamide 6 (PA6)

Cat. no.	For conduits Ø mm	Packaging in pcs.
black		
490.90.003	7.5 / 34	100



Metal cable ducts

for increased safety and reliability

Reliable protection for wires and cables primarily in the following fields:

- heavy machinery
- system installations

Flexible, strip-wound metal cable ducts with hooked profiles that feature high temperature resistance, heavy compressive strength and cold impact strength in extreme temperatures. There is no reduction in cross-section thanks to their flexibility. Due to

abrasion protection, tensile strength and corrosion resistance, they lastingly prevent damage to cables. They protect and increase their durability by reducing wear to a minimum.



Metal cable ducts

FFMSS



VDE 0605
DIN EN 61386-23
Classification: 43574

FFMSS is a flexible, strip-wound metal cable duct with a hooked profile, without sealing, made of galvanised steel.

This metal cable duct is used for heavy machinery and equipment installations. Advantages are its heavy compressive strength and that there is no reduction in cross-section thanks to its flexibility.

Specific features:

This heavy duty but very flexible metal duct can be used for moving machine parts. It is also particularly suited for high-temperature environments.

Technical specifications:

- material: galvanised steel strip
- temperature resistance range: -45°C to +400°C

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m**
280.00.007	7	9.5	7.0	14	10
280.00.010	10	13.0	10.0	19	10
280.00.013	13	16.0	13.0	24	10
280.00.015	15	18.5	15.5	28	10
280.00.020	20	24.0	20.0	34	10
280.00.025	25	28.5	25.0	40	10
280.00.028	28	31.5	28.0	45	10
280.00.037	37	41.5	37.0	95	10
280.00.045	45	49.5	45.0	115	10
280.00.052	52	56.5	52.0	145	10

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m**
280.01.007	7	9.5	7.0	14	50
280.01.010	10	13.0	10.0	19	50
280.01.013	13	16.0	13.0	24	50
280.01.015	15	18.5	15.5	28	50
280.01.020	20	24.0	20.0	34	50
280.01.025	25	28.5	25.0	40	50
280.01.028	28	31.5	28.0	45	25
280.01.037	37	41.5	37.0	95	25
280.01.045	45	49.5	45.0	115	25
280.01.052	52	56.5	52.0	145	25

*Referring to the inside diameter of the conduit elbow

**Uncoiled length



Please refer to page 53 for **FMV threaded metal connectors**

Metal cable ducts



VDE 0605
DIN EN 61386-23
Classification: 43414

FFMSS-K-FD

FFMSS-K-FD is a flexible strip-wound metal cable duct with a hooked profile, without sealing, made of galvanised steel with high-quality PVC sheathing and available in grey.

This metal cable duct is used for heavy machinery and equipment installations. Advantages are its heavy compressive strength, high temperature resistance and cold impact strength in extreme temperatures.

Specific features:

Since it is watertight, this heavy duty metal duct is recommended in particular for installations requiring liquidtightness. UV-resistant for up to 10 years.

Technical specifications:

- material: galvanised steel strip/ PVC-P
- temperature resistance range: -25°C to +60°C
- UV-resistant

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
280.10.008	8	13.0	8.5	40	10
280.10.010	10	15.0	10.0	50	10
280.10.012	12	17.0	12.0	60	10
280.10.015	15	21.0	15.5	70	10
280.10.020	20	27.0	20.0	90	10
280.10.025	25	34.0	26.5	120	10
280.10.035	35	43.0	35.0	150	10
280.10.040	40	48.0	40.0	200	10
280.10.051	51	58.5	50.5	250	10

*Referring to the inside diameter of the conduit elbow

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
280.11.008	8	13.0	8.5	40	50
280.11.010	10	15.0	10.0	50	50
280.11.012	12	17.0	12.0	60	50
280.11.015	15	21.0	15.5	70	50
280.11.020	20	27.0	20.0	90	50
280.11.025	25	34.0	26.5	120	25
280.11.035	35	43.0	35.0	150	20
280.11.040	40	48.0	40.0	200	20
280.11.051	51	58.5	50.5	250	20

*Referring to the inside diameter of the conduit elbow



Please refer to pages 53 et seq. for **FMV-FD M threaded metal connectors and other connectors.**

All dimensions without tolerances are for reference only.

Metal cable ducts



VDE 0605
DIN EN 61386-23
Classification: 43414

FFMSS-K

FFMSS-K is a flexible strip-wound metal cable duct with a hooked profile, without sealing, made of galvanised steel with high-quality PVC sheathing and available in grey.

This metal cable duct is used for heavy machinery and equipment installations. Advantages are its heavy compressive strength, high-temperature resistance and cold impact strength in extreme temperatures.

Specific features:

This heavy duty metal duct is flexible and can be used for moving machine parts. UV-resistant for up to 10 years.

Technical specifications:

- material: galvanised steel strip/ PVC-P
- temperature resistance range: -25°C to +60°C
- UV-resistant

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
280.20.007	7	10.0	7.0	25	10
280.20.010	10	13.5	10.0	40	10
280.20.013	13	16.5	13.0	50	10
280.20.015	15	19.0	15.5	60	10
280.20.020	20	25.0	20.0	70	10
280.20.025	25	30.0	25.0	100	10
280.20.028	28	32.5	28.0	120	10
280.20.037	37	42.5	37.0	150	10
280.20.045	45	51.0	45.0	180	10
280.20.052	52	58.0	52.0	230	10

*Referring to the inside diameter of the conduit elbow

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
280.21.007	7	10.0	7.0	25	50
280.21.010	10	13.5	10.0	40	50
280.21.013	13	16.5	13.0	50	50
280.21.015	15	19.0	15.5	60	50
280.21.020	20	25.0	20.0	70	50
280.21.025	25	30.0	25.0	100	50
280.21.028	28	32.5	28.0	120	25
280.21.037	37	42.5	37.0	150	25
280.21.045	45	51.0	45.0	180	25
280.21.052	52	58.0	52.0	230	25

*Referring to the inside diameter of the conduit elbow



Please refer to page 53 for FMV threaded metal connectors

Metal cable ducts

FFMSS-G



VDE 0605
DIN EN 61386-23
Classification: 43574

FFMSS-G is a flexible, strip-wound metal cable duct with a hooked profile, without sealing, made of galvanised steel with metal braiding.

This metal cable duct is used for heavy machinery and system installations. Advantages are its heavy compressive strength and that there is no reduction in cross-section thanks to its flexibility.

Specific features:

This heavy duty but very flexible metal duct can be used for moving machine parts. It is also particularly suited for high-temperature environments.

Technical specifications:

- material: galvanised steel strip/ metal braiding
- temperature resistance range: -45°C to +250°C

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
280.30.008	8	13.0	8.5	30	10
280.30.010	10	14.0	10.0	40	10
280.30.012	12	16.0	12.0	50	10
280.30.015	15	20.0	15.5	60	10
280.30.020	20	26.0	20.5	65	10
280.30.025	25	31.0	25.0	70	10
280.30.035	35	42.0	35.0	150	5
280.30.040	40	47.0	40.0	170	5
280.30.051	51	57.0	50.5	200	5

*Referring to the inside diameter of the conduit elbow

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
280.31.008	8	13.0	8.5	30	50
280.31.010	10	14.0	10.0	40	50
280.31.012	12	16.0	12.0	50	50
280.31.015	15	20.0	15.5	60	50
280.31.020	20	26.0	20.5	65	50
280.31.025	25	31.0	25.0	70	50
280.31.035	35	42.0	35.0	150	25
280.31.040	40	47.0	40.0	170	25
280.31.051	51	57.0	50.5	200	25

*Referring to the inside diameter of the conduit elbow



Please refer to pages 53 et seq. for **FMV-FD M threaded metal connectors and other connectors.**

All dimensions without tolerances are for reference only.

Metal cable ducts

FFMSS-VA



VDE 0605
DIN EN 61386-23
Classification: 43574

FFMSS-VA is a flexible, strip-wound metal cable duct with a hooked profile, without sealing, made of stainless steel V2A.

This metal cable duct is used for heavy machinery and system installations. Advantages are its heavy compressive strength and that there is no reduction in cross-section thanks to its flexibility.

Specific features:

This heavy duty but very flexible metal duct can be used for moving machine parts. It is also particularly suited for high-temperature environment.

Technical specifications:

- material: stainless steel V2A / AISI 304
- temperature resistance range: -45°C to +400°C

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m**
280.05.010	10	13.0	10.0	35	10
280.05.013	13	16.0	13.0	43	10
280.05.015	15	19.1	15.5	58	10
280.05.020	20	24.1	20.5	75	10
280.05.025	25	28.6	25.0	90	5

Cat. no.	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m**
280.06.010	10	13.0	10.0	35	50
280.06.013	13	16.0	13.0	43	50
280.06.015	15	19.1	15.5	58	50
280.06.020	20	24.1	20.5	75	50
280.06.025	25	28.6	25.0	90	25

*Referring to the inside diameter of the conduit elbow

**Uncoiled length



Please refer to page 53 for FMV threaded metal connectors



Metal cable duct accessories

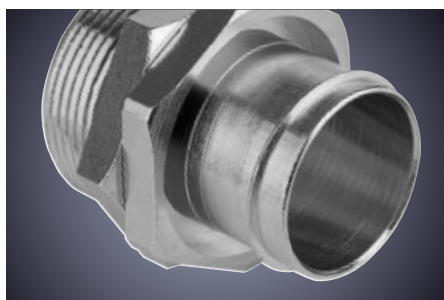
... we offer the right connection

Perfect installation due to a broad range of accessories:

- perfect fit for all metal cable ducts
- quick and easy installation
- high degree of reliability

FRÄNKISCHE offers a broad and practical range of accessories for the professional installation of metal cable ducts. Perfect fit and easy handling allow quick and easy installation, because metal cable ducts and accessories form a perfect union and achieve highest degrees of reliability.

All metal and angled threaded connectors, including end caps, are corrosion-resistant and temperature-resistant which makes them ideal accessories for metal cable ducts.



Metal cable duct accessories

FMV M



DIN EN 60529
Protection class IP40

FMV M is a rotatable threaded metal connector made of nickel-plated brass, with metric male thread. The threaded connector provides IP40 protection.

This threaded connector is used for FFMSS, FFMSS-VA and FFMSS-K conduits.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to +400°C

Cat. no.	Type	Thread m.. x 1.5	Inside Ø mm	Total length mm	Thread length mm	Ss 1 mm	Ss 2 mm	Packaging in pcs.
280.50.007	7	12	5.0	30	8	15	14	20
280.50.010	10	16	8.5	30	8	19	17	20
280.50.013	13	16	10.0	30	8	19	17	20
280.50.015	15	20	14.0	30	10	24	22	10
280.50.020	20	25	18.5	36	12	30	28	10
280.50.025	25	32	23.0	36	12	35	32	10
280.50.028	28	32	23.0	36	12	36	32	10
280.50.037	37	40	31.0	36	14	45	45	5
280.50.045	45	50	42.0	63	14	55	55	1
280.50.052	52	63	48.5	72	15	64	65	1

FMV-FD M



DIN EN 60529
Protection class IP67

FMV-FD M is a rotatable threaded metal connector made of nickel-plated brass, with metric male thread and inside end cap. The threaded connector provides IP67 protection.

This threaded connector is used for FFMSS-K-FD and FFMSS-G metal cable ducts.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to +120°C

Cat. no.	Type	Thread m.. x 1.5	Inside Ø mm	Total length mm	Thread length mm	Ss 1 mm	Ss 2 mm	Ss 3 mm	Packaging in pcs.
280.60.008	8	12	7.0	37	9	15	20	22	20
280.60.010	10	12	7.0	37	9	15	22	24	20
280.60.012	12	16	10.0	37	9	19	24	26	20
280.60.015	15	20	14.0	37	9	24	28	30	10
280.60.020	20	25	18.5	42	10	30	35	38	10
280.60.025	25	32	23.0	49	13	38	40	42	10
280.60.035	35	40	32.5	55	18	45	50	53	5
280.60.040	40	50	37.5	60	20	52	58	61	5
280.60.051	51	63	48.0	74	24	64	70	74	2



Please refer to page 60 for **FGMM metal locknuts**

Metal cable duct accessories

FMV-W



DIN EN 60529
Protection class IP67

FMV-W is a threaded 90° angled metal connector made of nickel-plated brass, with metric male thread and inside end cap. The threaded connector provides IP67 protection.

This threaded connector is used for FFMSS-K-FD and FFMSS-G metal cable ducts.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to +120°C

Cat. no.	Type	Thread m.. x 1.5	Out-side Ø mm	Inside Ø mm	Total length mm	Thread length mm	Ss 1 mm	Ss 2 mm	Ss 3 mm	Packaging in pcs.
280.75.008	8	12	13	8.5	44	11	22	22	22	20
280.75.010	10	12	15	10.0	44	11	22	24	22	20
280.75.012	12	16	17	12.0	46	12	26	26	26	10
280.75.015	15	20	21	15.5	50	12	28	30	28	10
280.75.020	20	25	27	20.0	62	13	35	38	35	5
280.75.025	25	32	34	26.5	73	16	42	42	42	2

FMV-I



DIN EN 60529
Protection class IP67

FMV-I is a threaded metal connector made of nickel-plated brass, with metric female thread. The threaded connector provides IP67 protection.

This threaded connector is used for FFMSS-K-FD and FFMSS-G metal cable ducts.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to +120°C

Cat. no.	Type	Thread m.. x 1.5	Outside Ø mm	Inside Ø mm	Thread length mm	Ss 1 mm	Ss 2 mm	Packaging in pcs.
280.80.010	10	16	15.0	10.0	9	22	24	20
280.80.012	12	16	17.0	12.0	9	24	26	20
280.80.015	15	20	21.0	15.5	10	28	30	20
280.80.020	20	25	27.0	20.0	12	36	38	10
280.80.025	25	32	34.0	26.5	12	40	42	10
280.80.035	35	40	43.0	35.0	12	50	53	5
280.80.040	40	50	48.0	40.0	13	58	61	5
280.80.051	51	63	58.5	50.5	20	70	74	2



Please refer to page 60 for **FGMM metal locknuts**

All dimensions without tolerances are for reference only.

Metal cable duct accessories

FME



FME is a metal end cap made of nickel-plated brass.

This end cap is used for all metal cable ducts with equal inside diameter. The advantage is edge protection.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to +400°C

Cat. no.	Type	Inside Ø mm	Outside Ø mm	For cables Ø mm	Packaging in pcs.
280.90.008	8	8.3	16.0	6.9	1
280.90.010	10	9.6	18.0	8.4	1
280.90.012	12	11.7	19.0	10.4	1
280.90.013	13	12.7	22.0	11.3	1
280.90.015	15	15.0	23.0	13.7	1
280.90.020	20	19.8	29.5	18.2	1
280.90.025	25	24.7	34.5	23.0	1
280.90.027	27	26.3	37.0	24.5	1
280.90.035	35	34.8	44.7	32.9	1
280.90.040	40	39.9	51.5	37.6	1

Plastic spiral conduits



FFKSS-SW

FFKSS-SW is a grey, flexible plastic spiral conduit. The sheathing is made of PVC-P with a spring made of plastic-coated spring steel wire.

This plastic spiral conduit is used for control panel engineering, control cabinets, engineering and robotics. Advantages are its heavy compressive strength and cold impact strength in extreme temperatures.

Specific features:

UV-resistant for up to 10 years.

Technical specifications:

- material: PVC-P / spring steel wire
- temperature resistance range: -25°C to +60°C
- non-flame propagating
- UV-resistant

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
281.20.007	7	10	7.0	10	10
281.20.009	9	14	10	14	10
281.20.011	11	17	13	17	10
281.20.016	16	21	16	21	10
281.20.021	21	27	21	27	10
281.20.029	29	36	30	36	10
281.20.036	36	45	38	45	10
281.20.048	48	56	48	56	10

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
281.21.007	7	10	7.0	10	50
281.21.009	9	14	10	14	50
281.21.011	11	17	13	17	50
281.21.016	16	21	16	21	50
281.21.021	21	27	21	27	50
281.21.029	29	36	30	36	25
281.21.036	36	45	38	45	25
281.21.048	48	56	48	56	25

*Referring to the inside diameter of the conduit elbow



Please refer to page 58 for FKV-SW M threaded conduit connectors

Plastic spiral conduits



FFKSS-KW

FFKSS-KW is a grey, flexible plastic spiral conduit. The sheathing is made of PVC-P with an integrated hard plastic coil made of PVC-U.

This plastic spiral conduit is used for all machine and equipment installations to which watertightness and insulation are important. An advantage is its cold impact strength in extreme temperatures.

Specific features:

UV-resistant for up to 10 years.

Technical specifications:

- material: PVC-P / hard plastic coil
- temperature resistance range: -25°C to +60°C
- non-flame propagating
- UV-resistant

Cat. no. grey	Type	Outside Ø mm	Inside Ø mm	Bend radius* ≥ mm	Packaging m
281.10.008	8	12.0	8.0	18	10
281.10.010	10	14.7	10.0	20	10
281.10.012	12	16.4	12.0	26	10
281.10.015	15	20.7	15.5	30	10
281.10.020	20	24.7	20.0	38	10
281.10.025	25	30.6	25.0	45	10
281.10.032	32	38.0	32.0	52	10
281.10.040	40	46.4	40.0	72	10
281.10.050	50	57.5	50.0	110	10

*Referring to the inside diameter of the conduit elbow



Please refer to page 58 for FKV-KW M threaded conduit connectors

FKV-SW M



FKV-SW M is a threaded PE connector with rotatable male thread made of nickel-plated brass. It provides IP54 protection and is non-flame propagating.

This threaded connector is used for FFKSS-SW plastic spiral conduits.

Technical specifications:

- material: PE
- temperature resistance range: -40°C to +110°C
- non-flame propagating

DIN EN 60529
Protection class IP54

Cat. no.	Type	Thread m.. x 1.5	Outside Ø mm	Inside Ø mm	Total length mm	Thread Length mm	Ss mm	Packaging in pcs.
grey								
281.60.009	9	16	21.1	8.3	34.0	6.0	19	50
281.60.011	11	20	26.7	10.4	35.3	6.0	24	50
281.60.016	16	25	33.5	13.5	41.0	7.5	30	25
281.60.021	21	32	40.0	18.8	45.2	8.0	36	25
281.60.029	29	40	51.3	26.5	47.5	8.0	46	25
281.60.036	36	50	61.3	35.1	50.2	9.5	55	25
281.60.048	48	63	76.8	45.4	64.5	11.5	68	10

FKV-KW M



FKV-KW M is a threaded PVC connector with integrated inside end cap and rotatable thread. The threaded connector provides IP67 protection and is non-flame propagating; locknut included.

This threaded connector is used for FFKSS-KW plastic spiral conduits.

Technical specifications:

- material: PVC
- temperature resistance range: -20°C to +80°C
- non-flame propagating

DIN EN 60529
Protection class IP67

Cat. no.	Type	Thread m.. x 1.5	Outside Ø mm	Inside Ø mm	Total length mm	Thread length mm	Ss 1 mm	Ss 2 mm	Packaging in pcs.
grey									
281.50.010	10	12	25.0	8	47	10.0	22	22	20
281.50.012	12	16	27.0	10	48	10.0	24	24	20
281.50.015	15	20	32.5	13	55	12.5	29	27	20
281.50.020	20	25	37.5	18	57	12.5	33	33	10
281.50.025	25	32	48.5	23	67	16	40	43	10
281.50.032	32	40	57.0	30	71	16.5	48	50	10
281.50.040	40	50	63.5	38	77	17.5	58	60	5
281.50.050	50	63	76.5	48	80	18.0	70	70	2



Please refer to page 60 for **FGMM metal locknuts**

Cable protection accessories

FMH M



FMH is a metal conduit holder made of stainless steel V2A with through hole. This metal conduit holder is used to connect metric threaded connectors and Pg connectors to components.

Technical specifications:

- material: stainless steel V2A
- temperature resistance range: -45°C to +400°C

Cat. no.	Type	Total depth mm	Total height mm	Total width mm	Wall thickness mm	Hole spacing mm	Packaging in pcs.
289 71 012	M12-Pg7	20	37	50	1.25	40	25
289 71 016	M16-Pg9	20	37	50	1.25	40	25
289 71 020	M20-Pg11	20	37	50	1.25	40	25
289 71 025	M25-Pg16	20	47	60	1.25	50	25
289 71 032	M32-Pg21	20	57	70	1.25	60	25
289 71 040	M40-Pg29	20	67	80	1.25	70	10
289 71 050	M50-Pg36	20	79	90	1.25	80	10
289 71 063	M63-Pg48	20	83	90	1.25	80	10

Metal reduction / expansion

FRMM / FEMM is a metal reduction / expansion made of nickel-plated brass, with metric female and male thread. This reduction / expansion is used for all threaded connectors with metric male threads.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to +400°C



FRMM

FRMM	Type	Thread outside m. x 1.5	Thread inside m. x 1.5	Total length mm	Thread length outside mm	Thread length inside mm	Packaging in pcs.
Cat. no.							
280.91.012	12/16	12	16	19	7	7	50
280.91.016	16/20	16	20	19	7	7	50
280.91.020	20/25	20	25	20	7	7	50
280.91.025	25/32	25	32	21.5	8	8	20
280.91.032	32/40	32	40	22	8.5	8.5	20
280.91.040	40/50	40	50	23	8.5	8.5	10
280.91.050	50/63	50	63	25	9.5	9.5	5



FEMM

FEMM	Type	Thread outside m. x 1.5	Thread inside m. x 1.5	Total length mm	Thread length outside mm	Thread length inside mm	Packaging in pcs.
Cat. no.							
280.92.012	16/12	16	12	10	7	10	50
280.92.016	20/16	20	16	10	7	10	50
280.92.020	25/20	25	20	11.5	8	11.5	20
280.92.025	32/25	32	25	12.5	8.5	12.5	20
280.92.032	40/32	40	32	12.5	8.5	12.5	10
280.92.040	50/40	50	40	14.5	9.5	14.5	5
280.92.050	63/50	63	50	17.5	10.5	17.5	5



FGKM

FGKM is a polyamide 6 locknut with metric thread. It does not contain any halogens, is non-flame propagating and available in black.

This locknut is used for all threaded connections and reductions with metric threads.

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to $+120^{\circ}\text{C}$, short-term temperature resistance up to $+150^{\circ}\text{C}$
- zero halogen
- non-flame propagating

Cat. no. black	Type	Thread m.. x 1.5	Ss mm	Packaging in pcs.
288.20.016	16	16	22	100
288.20.020	20	20	26	100
288.20.025	25	25	32	50
288.20.032	32	32	40	50
288.20.040	40	40	50	25
288.20.050	50	50	60	25
288.20.063	63	63	74	25



FGMM

FGMM is a metal locknut made of nickel-plated brass, with metric thread.

This locknut is used for all threaded connections and reductions with metric threads.

Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to $+400^{\circ}\text{C}$

Cat. no.	Type	Thread m.. x 1.5	Ss mm	Packaging in pcs.
288.10.016	16	16	19	100
288.10.020	20	20	24	100
288.10.025	25	25	30	50
288.10.032	32	32	36	50
288.10.040	40	40	46	25
288.10.050	50	50	59	25
288.10.063	63	63	70	10



FDRM

FDRM is a grey sealing ring for metric threads.

This sealing ring is used for all threaded connections and reductions with metric threads.

Technical specifications:

- temperature resistance range: -45°C to $+150^{\circ}\text{C}$

Cat. no. grey	Type	Thread m.. x 1.5	Packaging in pcs.
288.90.016	16	16	100
288.90.020	20	20	100
288.90.025	25	25	50
288.90.032	32	32	50
288.90.040	40	40	20
288.90.050	50	50	20
288.90.063	63	63	10

Cable protection accessories

FGKP



FGKP is a polyamide 6 locknut with Pg thread. It does not contain any halogens, is non-flame propagating and available in black.

This locknut is used for all threaded connections and reductions with Pg threads.

Technical specifications:

- material: polyamide 6 (PA6)
- temperature resistance range: -40°C to $+120^{\circ}\text{C}$, short-term temperature resistance up to $+150^{\circ}\text{C}$
- zero halogen
- non-flame propagating

Cat. no. black	Type	Thread Pg	Ss mm	Packaging in pcs.
288.25.007	7	7	19	100
288.25.009	9	9	22	100
288.25.011	11	11	24	100
288.25.013	13.5	13.5	27	100
288.25.016	16	16	30	50
288.25.021	21	21	36	50
288.25.029	29	29	46	25
288.25.036	36	36	60	25
288.25.048	48	48	70	25

FGMP



FGMP is a metal locknut made of nickel-plated brass, with Pg thread.

This locknut is used for all threaded connections and reductions with Pg thread.

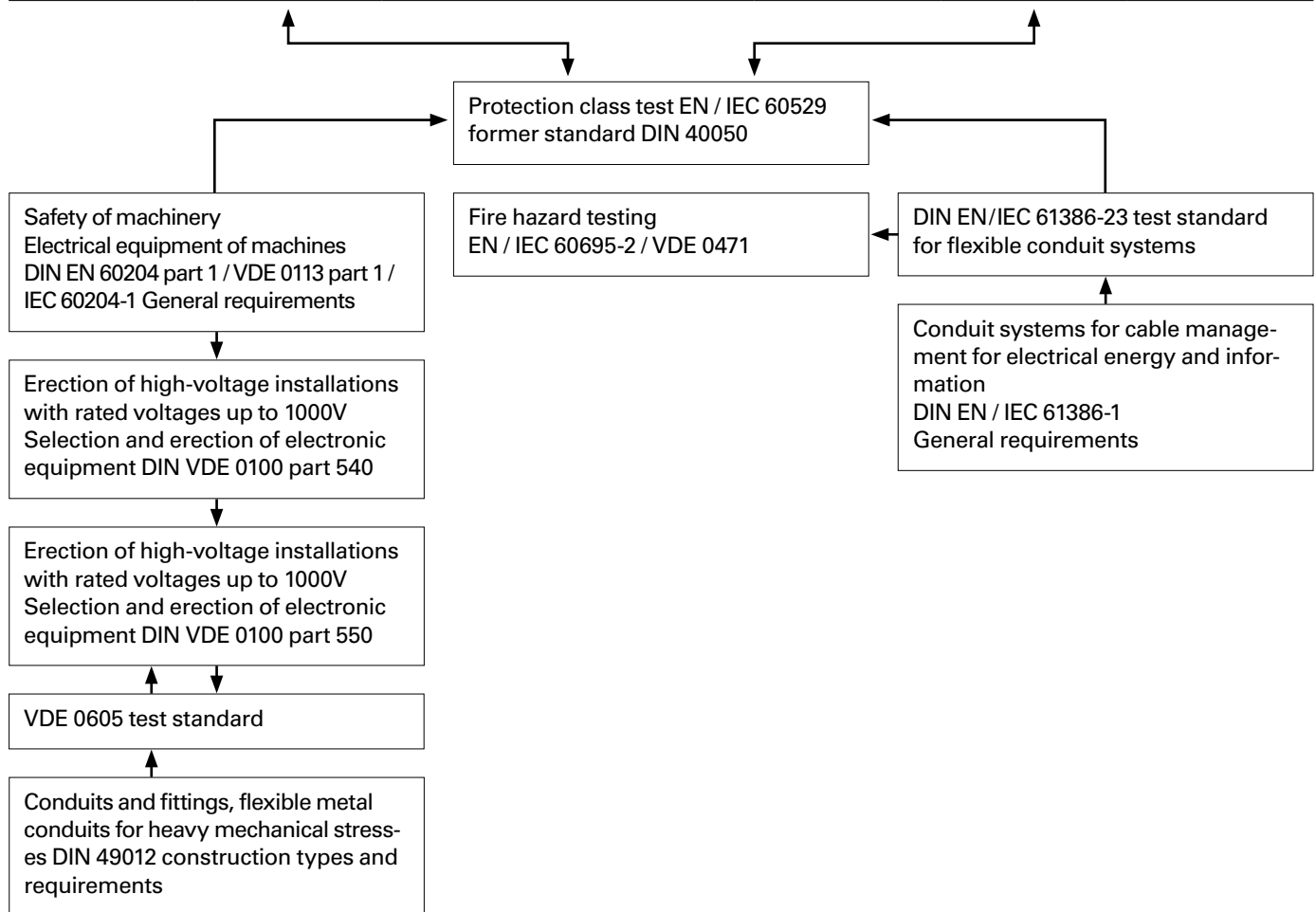
Technical specifications:

- material: nickel-plated brass
- temperature resistance range: -45°C to $+400^{\circ}\text{C}$

Cat. no.	Type	Thread Pg	Ss mm	Packaging in pcs.
288.15.007	7	7	15	100
288.15.009	9	9	19	100
288.15.011	11	11	22	100
288.15.013	13.5	13.5	24	100
288.15.016	16	16	27	50
288.15.021	21	21	32	50
288.15.029	29	29	42	50
288.15.036	36	36	52	25
288.15.048	48	48	66	10

Standards

DIN 40430 Steel conduit Pg thread			Thread standards	DIN EN 60423 Metric thread for conduits for electrical installations and threaded connectors		
Pg.	Outside Ø	Pitch		m..	Outside Ø	Pitch
7	12.5	1.27		12	12.0	1.5
9	15.2	1.41		16	16.0	1.5
11	18.6	1.41		20	20.0	1.5
13.5	20.4	1.41		25	25.0	1.5
16	22.5	1.41		32	32.0	1.5
21	28.3	1.588		40	40.0	1.5
29	37.0	1.588		50	50.0	1.5
36	47.0	1.588		63	63.0	1.5
42	54.0	1.588				
48	59.3	1.588				



Technical appendix

Definition: protection class

DIN EN 60529 identifies protection classes by 4-digit codes. The two-letter abbreviation IP (International Protection) comes first and always stays the same. The levels of protection are complemented by two digits. The first digit indicates the level of protec-

tion 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		
1 st digit	Designation	Level of protection contact	Level of protection foreign objects	2 nd digit	Designation	Level of protection water protection
0	No protection	No particular protection of persons against direct contact with live or moving parts.	No protection of the equipment against ingress of solid foreign objects.	0	No protection	No particular protection.
1	Protection against large foreign objects	Protection against accidental or inadvertent contact by large surfaces of the body with live and/or internal moving parts, e.g. back of hand, but no protection against deliberate access to these parts.	Protection against ingress of solid foreign objects with a diameter of > 50 mm.	1	Protection against vertically falling drops of water	Vertically falling drops of water shall have no harmful effect.
2	Protection against medium-sized foreign objects	Protection against finger contact with live and/or internal moving parts.	Protection against ingress of solid foreign objects with a diameter of > 12 mm.	2	Protection against diagonally dripping water	Dripping water falling at an angle of 15° from the vertical shall have no harmful effect.
3	Protection against small foreign objects	Protection against contact between live and/or internal moving parts and tools, wires or similar objects with a thickness of > 2.5 mm.	Protection against ingress of solid foreign objects with a diameter of > 2.5 mm.	3	Protection against spraying water	Water falling at an angle of 60° from the vertical shall have no harmful effect.
4	Protection against granular foreign objects	Protection against contact between live and/or internal moving parts and tools, wires or similar objects with a thickness of > 1 mm.	Protection against ingress of solid foreign objects with a diameter of > 1 mm.	4	Protection against spraying water	Water splashing against equipment from any direction shall have no harmful effect.
5	Protection against dust deposits	Complete protection against contact with live and/or internal moving parts.	Protection against harmful dust deposits. Ingress of dust is not entirely prevented. The quantity of dust entering must not interfere with operation.	5	Protection against water jets	Water projected by a nozzle against the equipment from any direction shall have no harmful effect.
6	Protection against dust ingress	Complete protection against contact with live and/or internal moving parts.	Protection against ingress of dust.	6	Protection against flood water	Water in harmful quantities must not enter the equipment in case of heavy seas or powerful jets of water.
-	-	-	-	7	Protection during short immersion	Water must not enter in harmful quantities if equipment is immersed in water under the defined conditions of pressure and time.
-	-	-	-	8	Protection during continuous submersion	Water must not enter in harmful quantities if equipment is submersed in water (1.2 m water depth, 1 hour)

Technical appendix

Chemical properties of plastics

Please note

The following 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 inspections. The customer is also solely responsible for observing industrial property rights, laws and regulations.

Medium	Concentration in %	PVC-U	PE-HD	PP	PA6 / PA66	TPE
Hydrochloric acid emissions	any	+	+	+	o	+
Sulphuric acid emissions	any	+	+	+	-	+
Liquid ammonia	TR	+	+	+	+	o
Gaseous ammonia	TR	+	+	+	+	o
Gasoline	H	+	+	o	+	o
Benzene	TR	-	o	o	+	-
Gaseous, dry chlorine	TR	o	o	-	-	o
Diesel fuel	H	+	+	+	+	o
Aqueous fertiliser salt	saturated	+	+	+		
Photographic developer	H	+	+	+	-	
Vinegar (wine vinegar)	H	+	+	+	-	+
Anti-freeze	H	+	+	+	o	
Fruit juices	H	+	+	+	-	
Aqueous uric acid	33 %	+	+	+	+	
Fuel oil	H	+	+	+	+	+
Sea water	H	+	+	+	+	+
Methanol	TR	+	+	+	+	+
Milk	H	+	+	+	+	+
Mineral oil	H	+	+	+	+	+
Vegetable and animal oils	H	+	+	+	+	+
Paraffin	TR	+	+	+	+	
Gaseous propane	TR	+	+	+	+	
Nitric acid	30 %	+	o	o	-	+
Hydrochloric acid	30 %	+	+	+	-	+
Sulfuric acid	40 %	+	+	+	-	o
Terpentine	TR	+	o	-	+	o
Detergent	VL	+	+	+	+	

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 ≥ 10 %
GL= saturated solution, aqueous
TR= minimum requirement: technically pure
H = standard composition

+ = resistant
o = limitedly resistant
- = non-resistant

Designation of materials:

PA = polyamide

TPE = thermoplastic polyester

PP = polypropylene

PVC = polyvinylchloride

PE-LD = low-density polyethylene

Technical appendix

Chemical properties of metals

Please note

The following 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 inspections. The customer is also solely responsible for observing industrial property rights, laws and regulations.

Medium	Concentration in %	Galvanised steel strip	Galvanised steel strip, metal braiding	Galvanised steel strip, PVC, metal braiding	Stainless steel V2A	Brass
Hydrochloric acid emissions	any			+	-	o
Sulphuric acid emissions	any			+	o	-
Liquid ammonia	TR	+	+	+	+	o
Gaseous ammonia	TR	+	+	+	+	-
Gasoline	H			+	+	+
Benzene	TR	+	+	-	+	+
Beer	H			-	+	+
Gaseous, dry chlorine	TR	+	+	o	-	-
Diesel fuel	H	+	+	+	+	+
Aqueous fertiliser salt	saturated			+		
Photographic developer	H			+	+	
Vinegar (wine vinegar)	H			+	+	-
Anti-freeze	H			+	+	+
Fruit juices	H			+	+	-
Aqueous uric acid	33 %			+	o	o
Fuel oil	H	+	+	+	+	+
Sea water	H			+	o	o
Methanol	TR			+	+	+
Milk	H	+	+	+	+	o
Mineral oil	H			+	+	+
Vegetable and animal oils	H			+	+	o
Paraffin	TR	+	+	+	+	+
Gaseous propane	TR			+	+	+
Nitric acid	30 %			+	-	-
Hydrochloric acid	30 %			+	o	-
Sulfuric acid	40 %	+	+	+	-	-
Terpentine	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 ≥ 10 %
GL = saturated solution, aqueous
TR = minimum requirement: technically pure
H = standard composition

+ = resistant
o = limitedly resistant
- = non-resistant

Designation of materials:

Galvanised steel strip
Galvanised steel strip, metal braiding
PVC, metal braiding
Stainless steel V2A
Brass

Technical appendix

Classification code

Electrical installation conduits must comply with the requirements of DIN EN 61386 (VDE 0605). These standards determine the classifications, identification and VDE tests. The twelve-digit code classifies conduits and fittings according to compressive strength, impact strength and the minimum

and maximum operating temperatures and bending during transport, storage and use. Electrical properties, protection class, corrosion resistance and tensile strength as well as flame propagation resistance and suspended load capacity are also indicated.

	Meaning	0	1	2	3	4	5	6	7
First digit	Resistance to compression	-	125 N (very light)	320 N (light)	750 N (medium)	1250 N (heavy)	4000 N (very heavy)	-	-
Second digit	Resistance to impact stresses	-	0.5 kg /100 mm (very light)	1 kg /100 mm (light)	2 kg /100 mm (medium)	2 kg /300 mm (heavy)	6.8 kg /300 mm (very heavy)	-	-
Third digit	Minimum temperature range	-	+5 °C	-5 °C	-15 °C	-25 °C	-45 °C	-	-
Fourth digit	Maximum temperature range	-	+60 °C	+90 °C	+105 °C	+120 °C	+150 °C	+250 °C	+400 °C
Fifth digit	Resistance against bending	-	rigid	pliable	flexible, moves back on its own	flexible	-	-	-
Sixth digit	Electrical properties	not declared	with electrical conductivity properties	with electrical insulation properties	with electrical conductivity and insulation properties	-	-	-	-
Seventh digit	Protection against ingress of solid foreign objects	protection IP -	protection IP -	protection IP -	protection IP 3X	protection IP 4X	protection IP 5X	protection IP 6X	protection IP -
Eighth digit	Protection against ingress of water	protection IP X0	protection IP X1	protection IP X2	protection IP X3	protection IP X4	protection IP X5	protection IP X6	protection IP X7
Ninth digit	Resistance against corrosion	-	low protection	medium protection	medium inside, high outside protection	high protection	-	-	-
Tenth digit	Tensile strength	not declared	100 N (very light)	250 N (light)	500 N (medium)	1000 N (heavy)	2500 N (very heavy)	-	-
Eleventh digit	Resistance against flame propagation	-	non-flame propagating	flame propagating	-	-	-	-	-
Twelfth digit	Suspended load capacity	not declared	20 N (very light)	30 N (light)	150 N (medium)	450 N (heavy)	850 N (very heavy)	-	-

Technical appendix

Classification code

Explanation of test methods for different temperature indications:

Temperature resistance test according to LV312-3 is conducted without load being applied.

Temperature resistance test according to DIN EN 61386-23 is conducted with the test load described in the standard being applied.

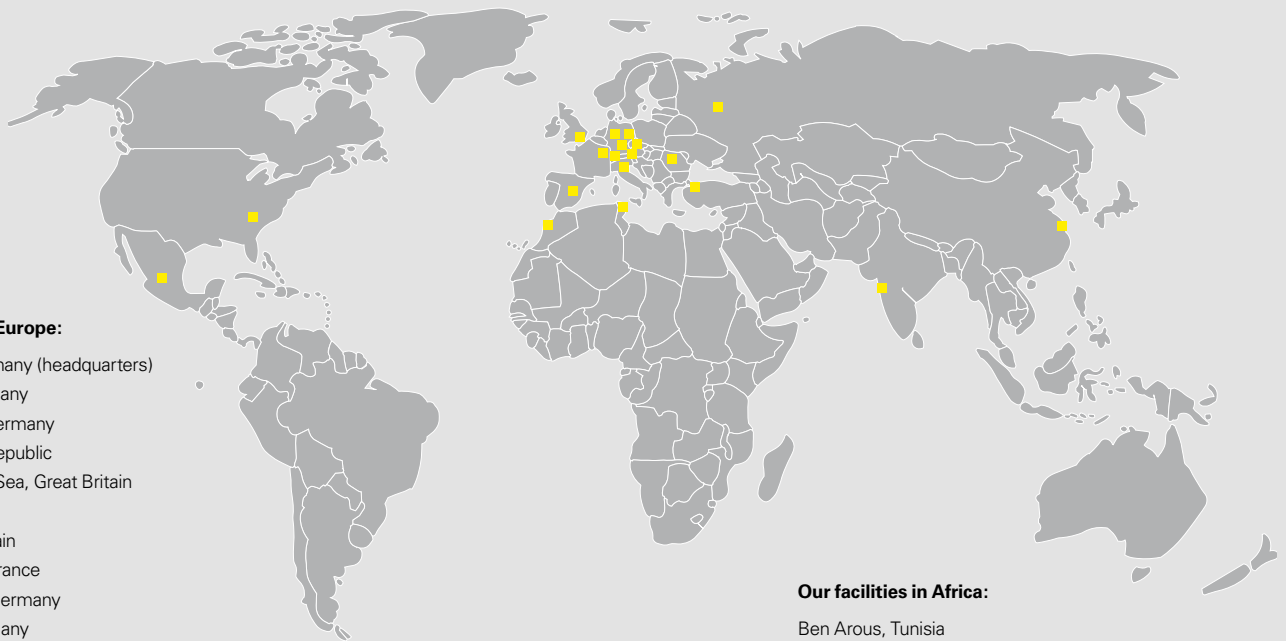
All accessories have been tested for flame propagation according to DIN 61386-1 using the glow-wire test according to DIN IEC 60695-2-11.

The classification code refers to the tests according to DIN EN 61386-23.

The following is based on type 17 and type 20:

Conduit type	First digit	Second digit	Third digit	Fourth digit	Fifth digit	Page
FFMYD-UL C coarse	1	2	5	4	4	12
FFMYD-PA6	1	2	5	4	4	13
FFMYD-L	0	2	4	4	4	14
FFMYD PA12-BS	1	2	5	3	4	15
FFHY	0	3	5	3	4	16
FFTYL-BS	0	4	5	1	4	17
FFPYL-MOD-BS	0	3	3	1	4	18
FFPYL-MOD-BS-UV	0	3	3	1	4	19
Co-flex PP-UV	1	3	4	3	4	38
Co-flex PP black	1	3	4	3	4	39
Co-flex PP white	1	3	4	3	4	40
Co-flex PA6	1	2	4	5	4	41
FFMSS	4	3	5	7	4	47
FFMSS-K-FD	4	3	4	1	4	48
FFMSS-K	4	3	4	1	4	49
FFMSS-G	4	3	5	7	4	50
FFMSS-VA	4	3	5	7	4	51
FFKSS-SW	4	2	4	1	4	56
FFKSS-KW	1	3	4	1	4	57

Rooted in Königsberg – globally successful!



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Torcy-le-Grand, France
Ebersbach/Fils, Germany
Hermsdorf, Germany
Mönchaltendorf, Switzerland
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Cluj, Romania
Wels, Austria

Our facilities in Asia:

Anting/Shanghai, China
Pune, India

Our facilities in Africa:

Ben Arous, Tunisia
Casablanca, Morocco

Our facilities in North America and Mexico:

Anderson, USA
Guanajuato, Mexico

FRÄNKISCHE is an innovative, growth-oriented, medium-sized family-owned enterprise and industry leader in the design, manufacturing and marketing of technically superior corrugated pipe systems for drainage, electrical, building technology and industrial applications.

We currently employ about 2,900 people worldwide. Both our many years of

experience and expertise in plastics processing, our consulting services and the large array of products are highly valued by our customers.

FRÄNKISCHE is a third generation family owned business that was established in 1906 and is now run by Otto Kirchner. Today, we are globally represented with production facilities and sales offices. The proximity to our cus-

tomers enables us to develop products and solutions that are perfectly tailored to our customers' needs. Our action and business philosophy focus on our customers and their needs and requirements for our products.

FRÄNKISCHE – Your partner for sophisticated and technologically advanced solutions.