PHŒNIX CONTACT
INSPIRING INNOVATIONS

rde *Connects*

S T Series

Shielded Connectors M17/Speedcon

Shielded Connectors M17/Speedcon Series ST
Technical Data

Shell material

Machined components:	Copper-Zinc alloy (CuZn)
die cast components:	Zinc (GD-Zn)
Shell plating:	Nickel (Ni) plated
Cable entry:	max. 12.5 mm

Insulator

Connector inserts: Polyamid (PA66),

Contacts

Contact material:	Copper-Zinc alloy (CuZn)
Contact plating:	Nickel (Ni) with gold (Au) passivated
Contact termination:	crimp type

Sealing

Sealing rings:	Fluor rubber (FPM)
Gaskets:	Fluor rubber (FPM)

All connectors with universal shielding material for different jacket and shield diameters.

Temperature

Temperature (long term) Celsius:	- 20 °C up to +125°C
Temperature (long term) Fahrenheit:	- 4 °F up to + 257 °F

Mating
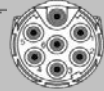
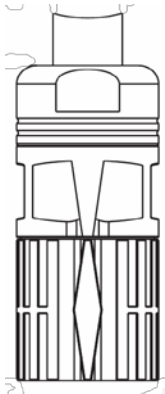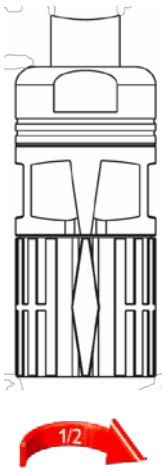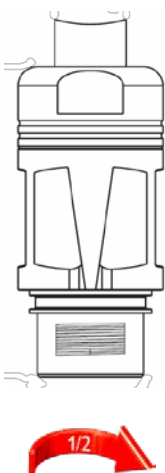|	
Female coupling nuts:	M17, or M17 in Speedcon
Male receptacles:	M17, or M17 in Speedcon
Mating cycles:	Standard min. 50

EMC

shielding
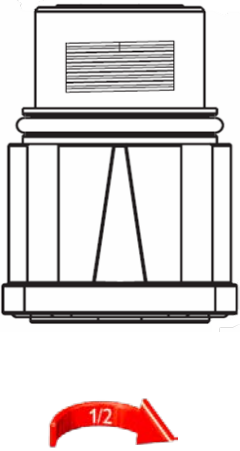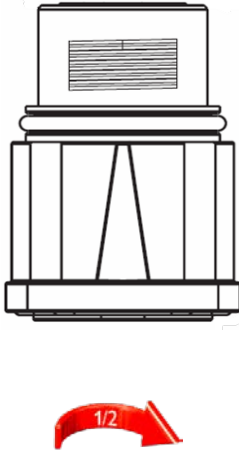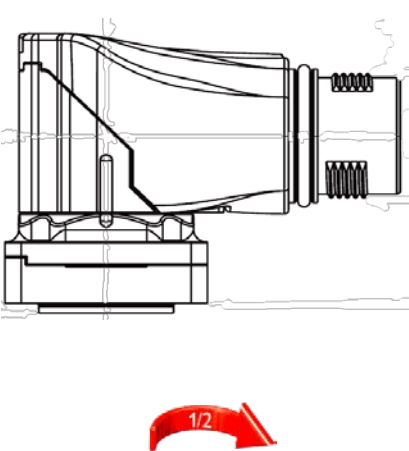
Protection

Protection class :   IP 67 (mated) depends on which cable gland is used

Number of positions	4	6	7	8	8	12	17
Number of contacts	3 + PE	5 + PE	6 + PE	7 + PE	8	12	17
Contact dia. (mm Ø)	2	1	1	1	1	0.6	0.6
Rated current at 25°C (A)	20/25	14	14	14	3.6	3.6	3.6
Rated voltage (V)	630	630	630	630	60	60	60
Test voltage (Volt AC)	4,000	6,000	6,000	6,000	1,500	1,500	1,500
Overvoltage category DIN EN 61984-2001	|||	|||	|||	|||	|||	|||	|||
Installation altitude above sea level	3,000 m	3,000 m	3,000 m	3,000 m	3,000 m	3,000 m	3,000 m
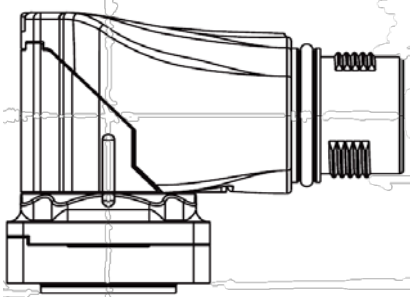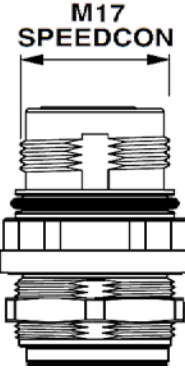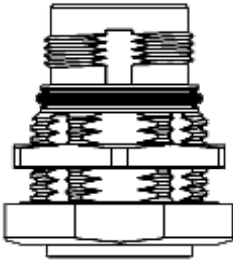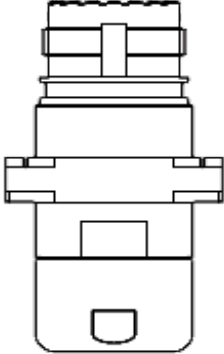
Shielded Connectors M17/Speedcon Series ST
Shell styles 8, 8S, 9S, WQ, W4, AD

ST-xxxxxxx8xxx page C-D-04	ST-xxxxxxx8xxxS page C-D-04	ST-xxxxxxx9xxxS page C-D-05
cable connector straight with coupling nut M17 cable entry max. 12.5 mm universal shielding material	cable connector straight with coupling nut M17 (1/2 turn) cable entry max. 12.5 mm universal shielding material	cable connector straight with outside thread M17 (1/2 turn) cable entry max. 12.5 mm universal shielding material
style 80	**style 80**	**style 90**
ST-xxxxxxxWQxxS page C-D-06	**ST-xxxxxxxW4xxS page C-D-06**	**ST-xxxxxxxADxxS page C-D-07**
front mount, straight square flange, axial O-ring flange with holes with outside thread M17 (1/2 turn)	front mount, straight, snap in square flange, axial O-ring flange with holes with outside thread M17 (1/2 turn)	front mount, angled rotary square flange, axial O-ring flange 21.6 x 21.6 with holes with outside thread M17 (1/2 turn)
style WQ	**style W4**	**style AD**
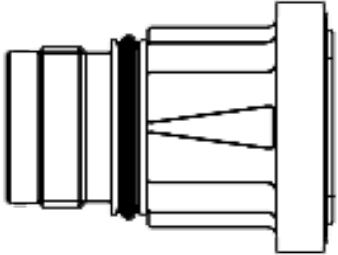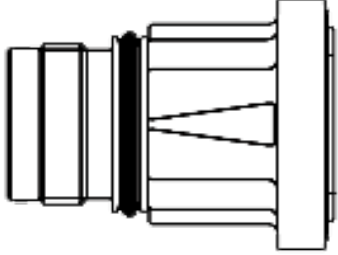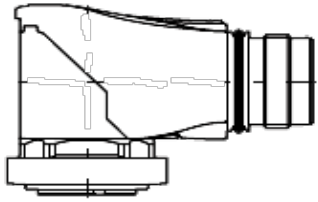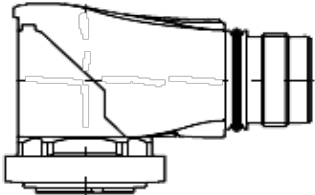
Shielded Connectors M17/Speedcon Series ST
Shell style AC, 61, H1, 8K, 9K, CK

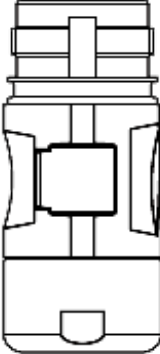| ST-xxxxxxxACxxS page C-D-07	ST-xxxxxxx61xxS page C-D-08	ST-xxxxxxxH1xxS page C-D-09
front mount, angled rotary square flange, axial O-ring flange 25 x 25 with holes with outside thread M17 (1/2 turn)	front mount, straight round flange, axial O-ring mounting thread M18x0.75 mm with outside thread M17 (1/2 turn)	rear mount, straight round flange, axial O-ring mounting thread M20x1.5 mm with outside thread M17 (1/2 turn)
style AC	**style 61**	**style H1**
ST-xxxxxxx8KxxS page C-D-10	ST-xxxxxxx9KxxS page C-D-11	ST-xxxxxxxCKxxS page C-D-12
cable connector straight with coupling nut M17 (1/2 turn) cable entry max. 12.5 mm universal shielding material	cable connector straight with outside thread M17 (1/2 turn) cable entry max. 12.5 mm universal shielding material	cable connector with flange with outside thread M17 (1/2 turn) cable entry max. 12.5 mm universal shielding material
style 8K	**style 9K**	**style CK**

Shielded Connectors M17/Speedcon Series ST
Shell style WK, W5, A4, A5

ST-xxxxxxxWKxxS page C-D-13	ST-xxxxxxxW5xxS page C-D-14	ST-xxxxxxxA4xxS page C-D-15
front mount, straight square flange, axial O-ring flange 25.75 x 25.75 with holes with outside thread M17 (1/2 turn)	front mount, straight square flange, axial O-ring flange 25.75 x 25.75 with holes with outside thread M17 (1/2 turn)	front mount, angled square flange, axial O-ring flange with holes M2.5 with outside thread M17 (1/2 turn)
style WK	**style W5**	**style A4**
ST-xxxxxxxA5xxS page C-D-16		
front mount, angled square flange, axial O-ring flange with holes M3 with outside thread M17 (1/2 turn)		
style A5		

C-D-03A

Shielded Connectors M17/Speedcon Series ST
fits all ST- Bulkhead
Shell style 80xx/80xxS

51.3

Ø21.3

max.Ø11.5
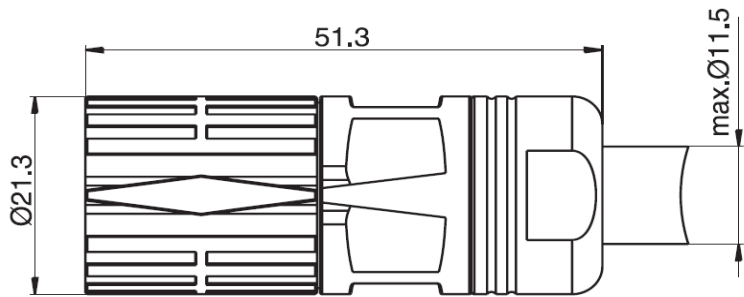
standard or speedcon

Assembly instructions:	page B-D-38
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

All ST-connectors with universal shielding material for different jacket and shield diameters.
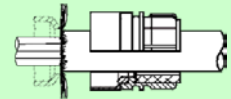
We also deliver as a connector set. Connector with crimp insert - and contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	8	0	0		

Please fill in the first 7 digits of your desired connector insert (4-17 positions) from pages B-A-50….

Connectors with integrated strain relief and….

seal ring for 3.5 - 4 mm Ø								8	0	0	1	
seal ring for 4 - 5 mm Ø								8	0	0	2	
seal ring for 5 - 8 mm Ø								8	0	0	3	
seal ring for 8 - 10 mm Ø								8	0	0	4	
seal ring for 10 - 12.5 mm Ø								8	0	0	5	
seal ring for 3.5 - 4 mm Ø								8	0	0	1	S
seal ring for 4 - 5 mm Ø								8	0	0	2	S
seal ring for 5 - 8 mm Ø								8	0	0	3	S
seal ring for 8 - 10 mm Ø								8	0	0	4	S
seal ring for 10 - 12.5 mm Ø								8	0	0	5	S

1/2

Shielded Connectors M17/Speedcon Series ST
fits all ST- Bulkhead
Shell style 90xxS

49.5

max.Ø11.5

M17 SPEEDCON

1/2

Assembly instructions:	page B-D-38
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

All ST-connectors with universal shielding material for different jacket and shield diameters.
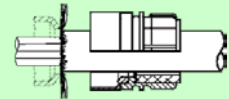
We also deliver as a connector set.
Connector with crimp insert - and contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	9	0	0	x	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connectors with integrated strain relief and….

	9	0	0	
seal ring for 3.5 - 4 mm Ø	9	0	0	1
seal ring for 4 - 5 mm Ø	9	0	0	2
seal ring for 5 - 8 mm Ø	9	0	0	3
seal ring for 8 - 10 mm Ø	9	0	0	4
seal ring for 10 - 12.5 mm Ø	9	0	0	5

Shielded Connectors M17/Speedcon Series ST
fits all ST-Cable Connectors with coupling nut
Shell style WQ/W4 (front mount receptacles)

rde Connects

mounting dimensions

bore holes

4xM2.5
Ø17±0.1
45°
(□16.8)
Ø23.8

side view with
O-ring axial

1/2

31
3
0.85
M17 SPEEDCON

□21.6
□16.8
4xØ2.7
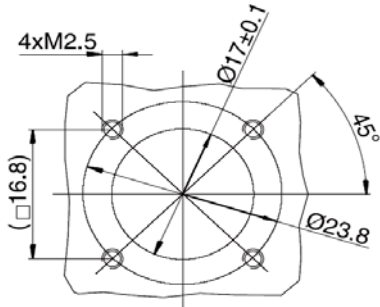
top view

Assembly instructions:	pages: B-D-41
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

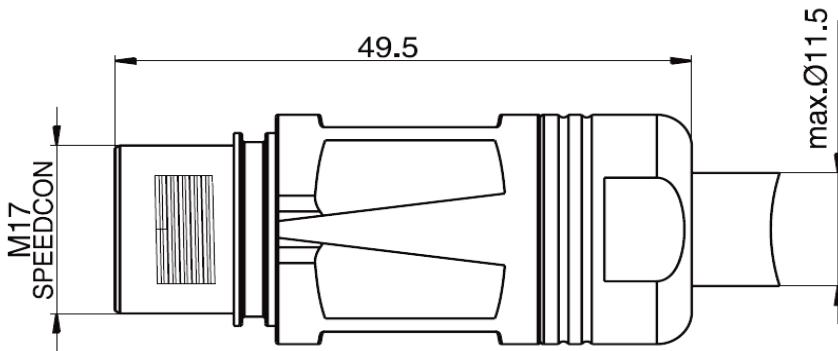| Part Number	ST-	x	x	x	1	N	8	A	W	x	x	x	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connector with axial O-ring, flange with 4 holes 2.7 mm Ø
the insert is fixed with the installation of the connector
W Q 0 0

Connector with axial O-ring, flange with 4 holes 2.7 mm Ø
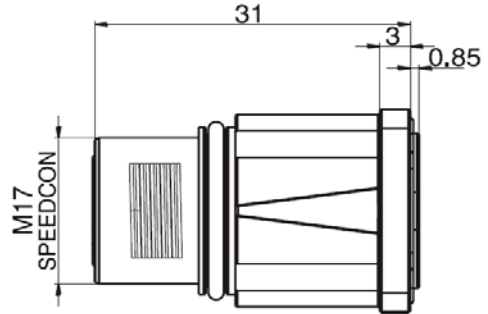the insert should be snapped in before mounting
W 4 0 0

Shielded Connectors M17/Speedcon Series ST
fits all ST-Cable Connectors with coupling nut
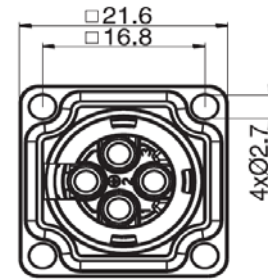## Shell style AD/AC (front mount receptacles)

mounting dimensions

bore holes AD, AC

side view with
O-ring axial

4xM2.5/M3

Ø17±0.1

16.8 / 19.8

45°

Ø 23.8/28.0

1/2

36,3

M17 SPEEDCON

22.5

1.3

□25
□19.8

Ø2.7

AC

105°   203°

□21.6
□16.8

Ø2.7

AD

105°   203°

Assembly instructions:	page B-D-39
Caps and accessories:	pages: B-H-01…
Mounting tools:	page B-E-00…
Crimp tool for contacts:	pages: B-B-00…
Crimp contacts:	pages: B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	A	x	x	x	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connector with axial O-ring, flange with 4 holes 2.7 mm Ø flange □21.6 mm	A	D	0	0

Connector with axial O-ring, flange with 4 holes 2.7 mm Ø flange □25.0 mm	A	C	0	0

Rotatable 203° -- 105°

Shielded Connectors M17/Speedcon Series ST
fits all ST-Cable Connectors with coupling nut
Shell style 61 (front mount receptacles)

rde Connects

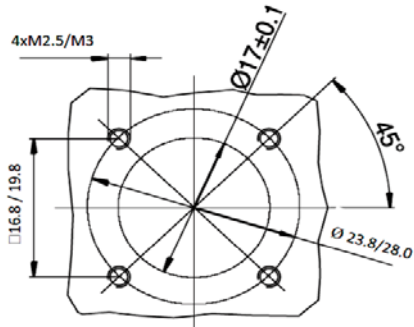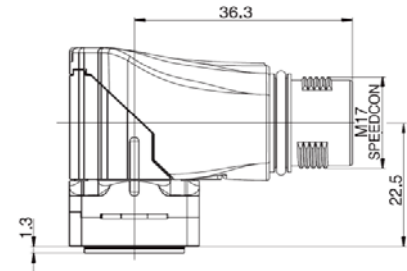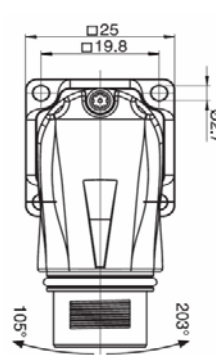**mounting dimensions**

bore holes

side view with
O-ring axial

M18x0.75

min. 1.5

1/2

M17 SPEEDCON

20,6

max.5

8

11,4

M18x0,75

Ø21,2
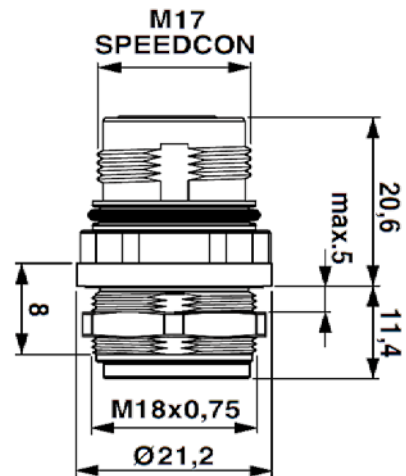
Assembly instructions:	pages: B-D-37
Caps and accessories:	pages: B-H-00…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	x	x	x	x	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connector with round flange	6	1	0	0
Hex nut from the back (Please order separate)				
Hex Nut M18 x 0.75 ST-E2015151				

Shielded Connectors M17/Speedcon Series ST
fits all ST-Cable Connectors with coupling nut
Shell style H1 (rear mount receptacles)

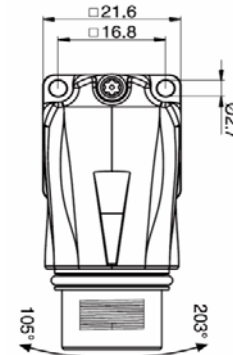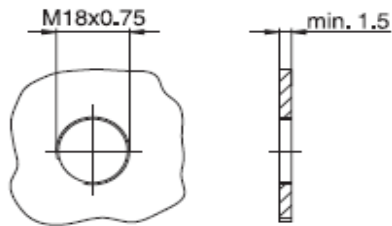**mounting dimensions**

bore holes

side view with
O-ring axial

M20x1,5

min. 3

1/2

M20x1,5
M17
SPEEDCON

25,3

max.8

11,4

6,7

Ø26
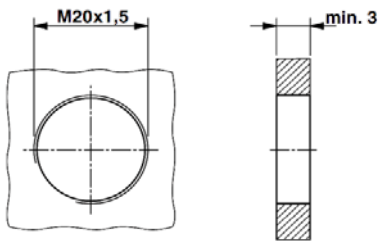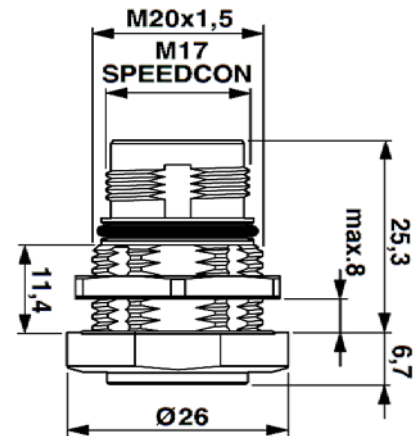
Assembly instructions:	pages: B-D-40
Caps and accessories:	pages: B-H-00…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	x	x	x	x	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connector with round flange			**H**	**1**	**0**	**0**

Hex nut from the front (Please order separate)

Hex Nut M20 x 1.5   RC-13041

C-D-09

> 44,4

Ø19

Short Version

1/2

Assembly instructions:	page B-D-38
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

All ST-connectors with universal shielding material for different jacket and shield diameters.

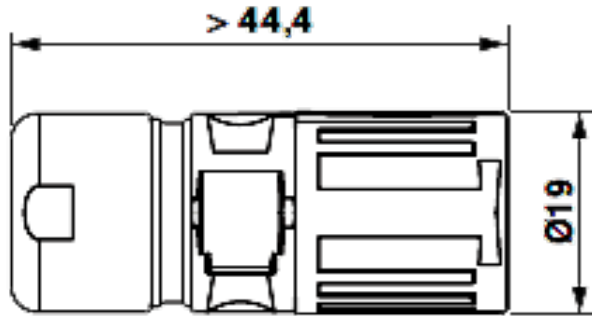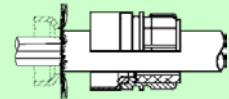We also deliver as a connector set. Connector with crimp insert - and contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	8	K	0	x	x

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connectors with integrated strain relief and….

seal ring for 3.5 - 5.5 mm Ø									8	K	0	2	S
seal ring for 5 - 9 mm Ø									8	K	0	3	S
seal ring for 9 - 11 mm Ø									8	K	0	4	S

Shielded Connectors M17/Speedcon Series ST
fits all ST- Bulkheads or Cables
Shell style 9KxxS
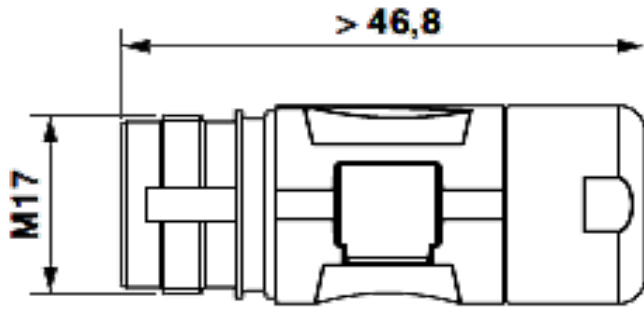
> 46,8

M17

Short Version

1/2

Assembly instructions: page B-D-38	**All ST-connectors with universal shielding material for different jacket and shield diameters.**
Caps and accessories: pages: B-H-01…	
Mounting tools: N/A	
	We also deliver as a connector set.
Crimp tool for contacts: pages B-B-00…	**Connector with crimp insert - and**
Crimp contacts: pages B-C-20…..	**contacts separate included. Please ask for P/N.**
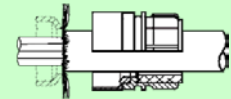
Part Number	ST-	x	x	x	1	N	8	A	9	K	0	x	x

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connectors with integrated strain relief and….

		9	K	0	2	S
seal ring for 3.5 - 5.5 mm Ø		9	K	0	2	S
seal ring for 5 - 9 mm Ø		9	K	0	3	S
seal ring for 9 - 11 mm Ø		9	K	0	4	S

Shielded Connectors M17/Speedcon Series ST
fits all ST-Cables
Shell style CKxxS (front mount and rear mount)
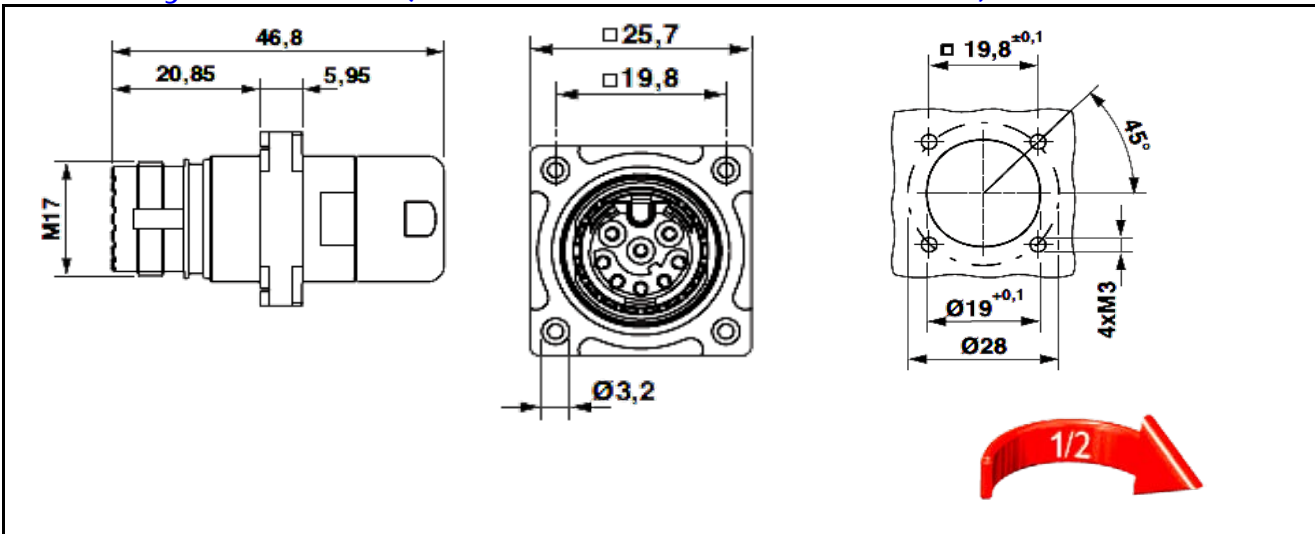
Assembly instructions:	page B-D-38	All ST-connectors with universal shielding material for different jacket and shield diameters.
Caps and accessories:	pages: B-H-01…	
Mounting tools:	N/A	
Crimp tool for contacts:	pages B-B-00…	We also deliver as a connector set. Connector with crimp insert - and contacts separate included. Please ask for P/N.
Crimp contacts:	pages B-C-20…..	

Part Number	ST-	x	x	x	1	N	8	A	C	K	0	x	x

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connectors with integrated strain relief and….
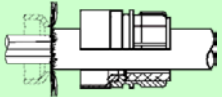
	C	K	0	2	S
seal ring for 3.5 - 5.5 mm Ø	C	K	0	2	S
seal ring for 5 - 9 mm Ø	C	K	0	3	S
seal ring for 9 - 11 mm Ø	C	K	0	4	S

Assembly instructions:	page B-D-41
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

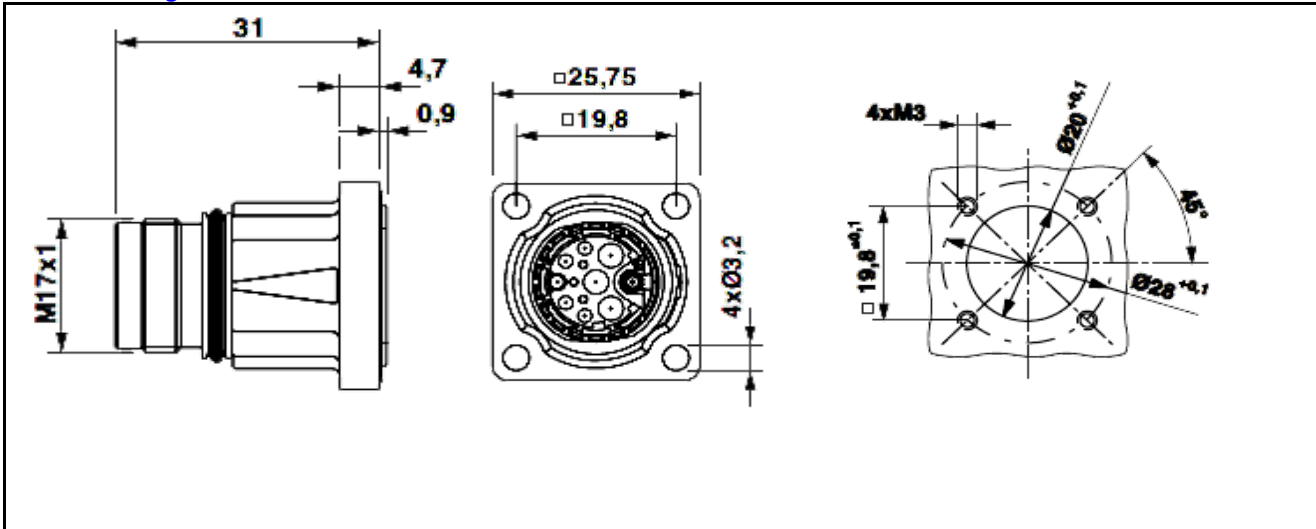| Part Number	ST-	x	x	x	1	N	8	A	W	K	0	0	S

Please fill in the first 7 digits of
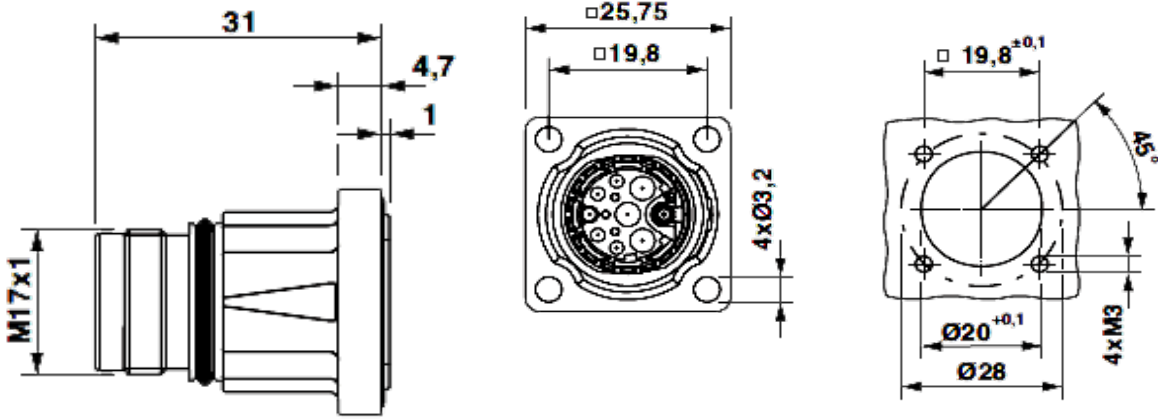your desired connector insert (4-17 positions)
from pages B-A-50….

Connectors with integrated strain relief and….

the insert should be snapped in before mounting

square flange connector, 25.75 x 25.75   W   K   0   0   S

front mount, with axial O-ring

with outside thread M 17/Speedcon

Assembly instructions:	page B-D-41
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	W	5	0	0	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
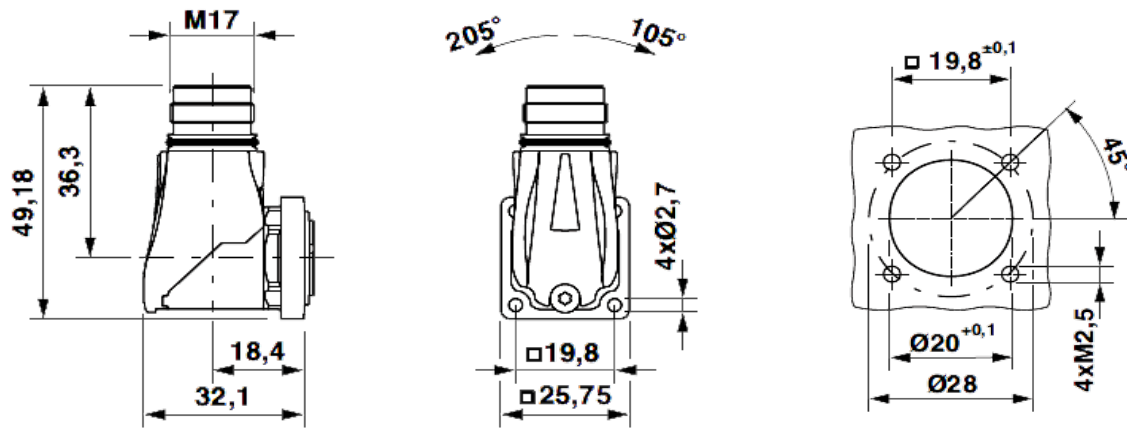from pages B-A-50….

Connectors with integrated strain relief and….

the insert is fixed with the installation of the connector

square flange connector, 25.75 x 25.75

front mount, with axial O-ring

with outside thread M 17/Speedcon

W 5 0 0 S

Shielded Connectors M17/Speedcon Series ST
fits all ST-Cables
Shell style A4xxS

Assembly instructions:	page B-D-39
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	A	4	0	0	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….
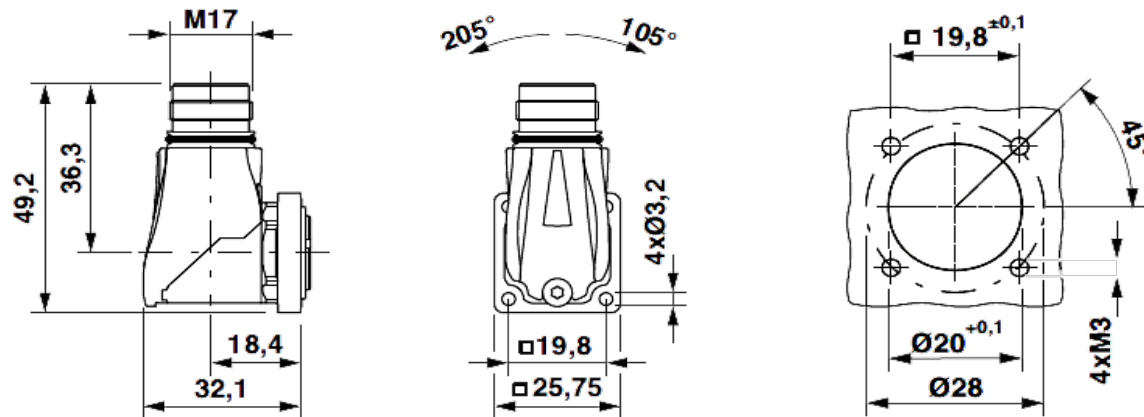
Connectors with integrated strain relief and….

4 holes with 2.7 mm

square flange connector, 25.75 x 25.75

front mount, with axial O-ring

with outside thread M 17/Speedcon

A 4 0 0 S

Assembly instructions:	page B-D-39
Caps and accessories:	pages: B-H-01…
Mounting tools:	N/A
Crimp tool for contacts:	pages B-B-00…
Crimp contacts:	pages B-C-20…..

We also deliver as a connector set.
Connector with crimp insert - and
contacts separate included. Please ask for P/N.

Part Number	ST-	x	x	x	1	N	8	A	A	5	0	0	S

Please fill in the first 7 digits of
your desired connector insert (4-17 positions)
from pages B-A-50….

Connectors with integrated strain relief and….

4 holes with 3.2 mm

square flange connector, 25.75 x 25.75

front mount, with axial O-ring

with outside thread M 17/Speedcon

A 5 0 0 S