

Member of the Phoenix Contact Group

T U Series

Shielded Connectors in Bayonet Style

Shielded Connectors Bayonet Series TU

Technical Data



Shell material

Machined components: Copper-Zinc alloy (CuZn)
 die cast components: Zinc (GD-Zn)
 Shell plating: Nickel (Ni) plated
 Cable entry: max. 14 mm

Insulator

Connector inserts: Thermoplastic polyester (PBT), Polyamid (PA66),

Contacts

Contact material: Copper-Zinc alloy (CuZn)
 Contact plating: Nickel (Ni) with gold (Au) passivated
 Contact termination: Solder cup, crimp type, screw type, dip solder

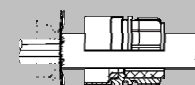
Sealing

Sealing rings: Fluor rubber (FPM)
 Gaskets: Fluor rubber (FPM), or Perbunan (NBR) stiffened gaskets

Temperature

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

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



Mating

Female coupling nuts: bayonet type (ring nut) dia. 29.3 mm
 Male receptacles: bayonet type (grooves)
 Mating cycles: Standard min. 50

EMC
shielding

Protection

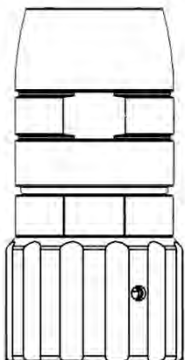
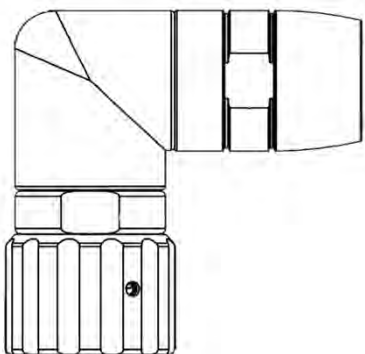
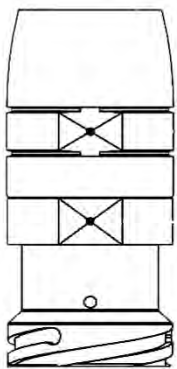
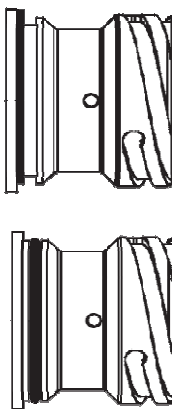
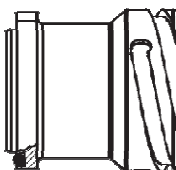
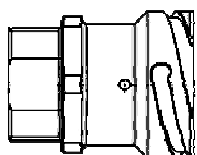
Protection class : IP 67 (mated) depends on which cable gland is used

Number of positions	6,7	9 (8+1)	9 (6+3)	12	16	17	19 (16+3)
Number of contacts	6,7	8 1	6 3	12	16	17	16 3
Contact dia. (mm Ø)	2	1 2	1 2	1	1	1	1 1.5
Rated current (A)	20	8 20	8 20	8	8	8	8 10
Rated voltage (V)	250	150	150	150	150	150	150
Test voltage (Volt AC)	2,500	1,500	1,500	1,500	1,500	1,500	1,500
Overvoltage category DIN EN 61984-2001	II	II	II	II	II	II	II
Insulation resistance (Ω)	$\geq 10^{16}$	$\geq 10^{16}$	$\geq 10^{12}$	$\geq 10^{12}$	$\geq 10^{12}$	$\geq 10^{12}$	$\geq 10^{12}$
Contact resistance (mΩ)	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
Pollution degree acc. to IEC 664-1	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)	2 (3 ¹)

Connectors and Bulkheads Bayonet Series TU

Shell styles 8, R, F, N, T, 9, 4, 5, WB, 6

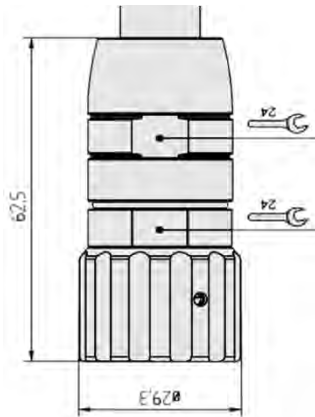


TU-xxxxxxx8xxx page C-A-04	TU-xxxxxxxTxxx page C-A-05	TU-xxxxxxx9xxx page C-A-06
cable connector straight with coupling nut bayonet cable entry max. 18 mm universal shielding material	cable connector right angled with coupling nut bayonet cable entry max. 18 mm universal shielding material	cable connector straight with bayonet grooves cable entry max. 18 mm universal shielding material
		
style 8U/82/R	style TU/T2/N	style 9U/92/F
TU-xxxxxxx4(5)xxx page C-A-07	TU-xxxxxxxWBxx page C-A-08	TU-xxxxxxx61xx page C-A-09
rear mount, straight square flange, O-ring/gasket flange with threads/holes with bayonet grooves	front mount, straight square flange, O-ring flange with holes with bayonet grooves	front mount, straight round flange, O-ring for mounting thread M20 with bayonet grooves
		
style 41/43	style WB	style 61

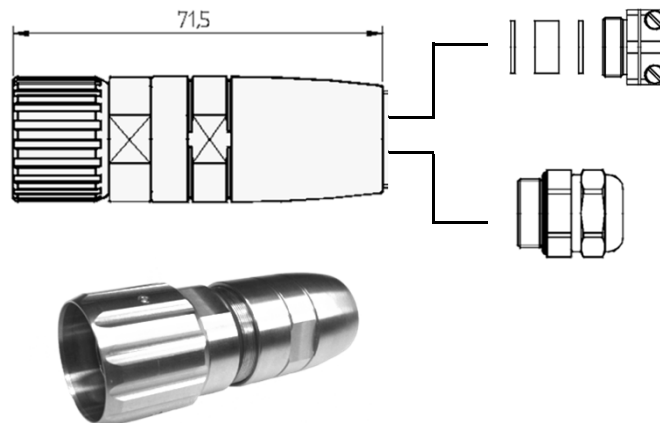
Shielded Connectors Bayonet Series TU
fits all TU- Bulkhead
Shell style 8U/82/R3/RN/RM



Style 8U/82



Style R

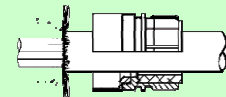


Assembly instructions: page B-D-01
 Caps and accessories: pages B-H-01...

Mounting tools: page: B-E-01...

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-01....

All TU-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

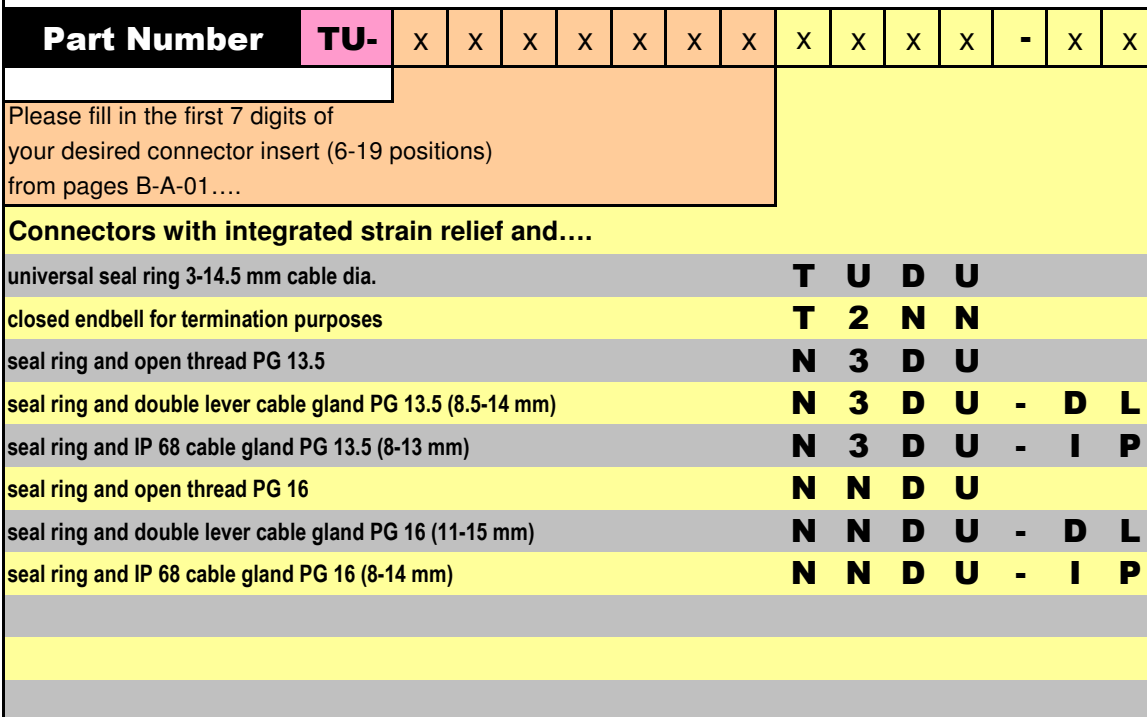
TU- X X X X X X X X X X X X - X X

Please fill in the first 7 digits of your desired connector insert (6-19 positions) from pages B-A-01....

Connectors with integrated strain relief and....

universal seal ring 3-14.5 mm cable dia.	8 U D U
closed endbell for termination purposes	8 2 N N
seal ring and open thread PG 13.5	R 3 D U
seal ring and double lever cable gland PG 13.5 (8.5-14 mm)	R 3 D U - D L
seal ring and IP 68 cable gland PG 13.5 (8-13 mm)	R 3 D U - I P
seal ring and open thread PG 16	R N D U
seal ring and double lever cable gland PG 16 (11-15 mm)	R N D U - D L
seal ring and IP 68 cable gland PG 16 (8-14 mm)	R N D U - I P

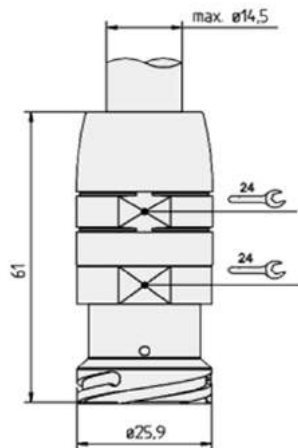
Shell style TU/T2/N3/NN/NM



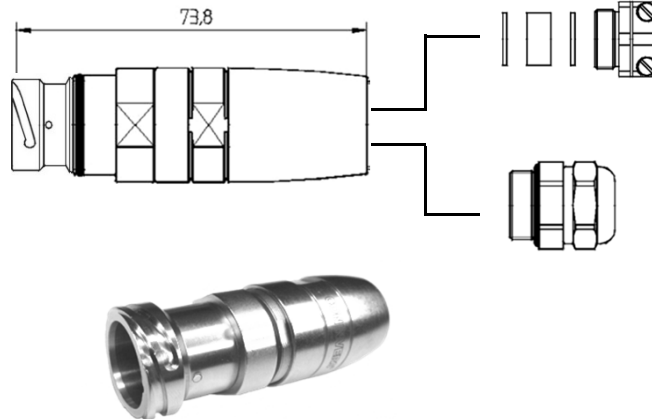
Shielded Connectors Bayonet Series TU
fits all TU-Cable Connectors with coupling nut
Shell style 9U/92/F3/FN/FM



Style 9U/92



Style F

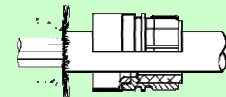


Assembly instructions: page B-D-01
 Caps and accessories: pages B-H-01...

Mounting tools: page: B-E-01...

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-01.....

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



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 Connector with crimp insert - and contacts separate included. Please ask for P/N.



Part Number

TU-

X X X X X X X X X X X X - X X

Please fill in the first 7 digits of your desired connector insert (6-19 positions) from pages B-A-01....

Connectors with integrated strain relief and....

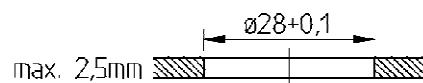
universal seal ring 3-14.5 mm cable dia.	9 U D U
closed endbell for termination purposes	9 2 N N
seal ring and open thread PG 13.5	F 3 D U
seal ring and double lever cable gland PG 13.5 (8.5-14 mm)	F 3 D U - D L
seal ring and IP 68 cable gland PG 13.5 (8-13 mm)	F 3 D U - I P
seal ring and open thread PG 16	F N D U
seal ring and double lever cable gland PG 16 (11-15 mm)	F N D U - D L
seal ring and IP 68 cable gland PG 16 (8-14 mm)	F N D U - I P

Shielded Connectors Bayonet Series TU
fits all TU-Cable Connectors with coupling nut
Shell style 4, 5 (rear mount receptacles)

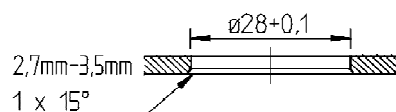


mounting dimensions

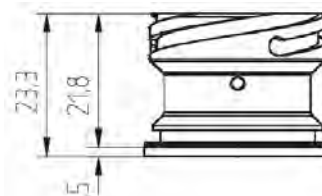
flat gasket



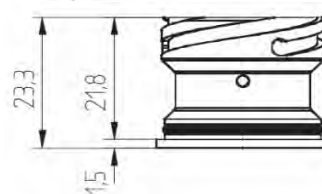
O-ring radial



side view gasket



side view radial O-ring

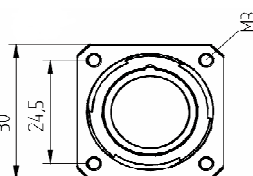


Assembly instructions: B-D-03
 Caps and accessories: pages B-H-01...

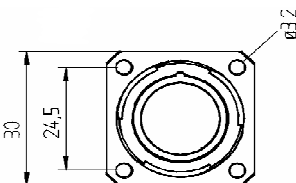
Mounting tools: page B-E-01 or screwdriver

Crimp tool for contacts: pages B-B-01...

Crimp contacts: pages B-C-01....



style 4100/4300



style 5100/5300

We also deliver as a connector set.

Connector with crimp insert - and contacts separate included. Please ask for P/N.



Part Number

TU-

X X X X X X X X X X X X

Please fill in the first 7 digits of your desired connector insert (6-19 positions) from pages B-A-01....

Connector with flat gasket, flange with 4 threads M3 **4 1 0 0**

Connector with radial O-ring, flange with 4 threads M3 **4 3 0 0**

Connector with flat gasket, flange with 4 holes 3.2 mm Ø **5 1 0 0**

Connector with radial O-ring, flange with 4 holes 3.2 mm Ø **5 3 0 0**

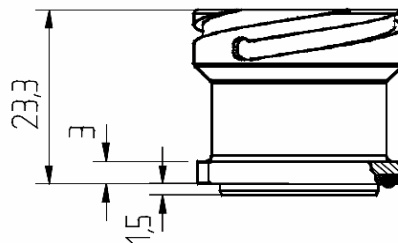


Shielded Connectors Bayonet Series TU
fits all TU-Cable Connectors with coupling nut
Shell style WB (front mount receptacles)



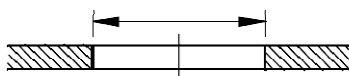
mounting dimensions

side view axial O-ring

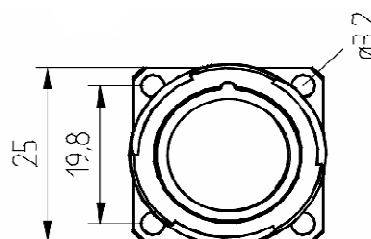


O-ring axial

bore hole 19.6 mm diameter



top view
style WB



Assembly instructions: B-D-03

Caps and accessories: pages B-H-01...

Mounting tools: page B-E-01 or screwdriver

Crimp tool for contacts: pages B-B-01...

Crimp contacts: pages B-C-01.....

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Connector with crimp insert - and
contacts separate included. Please ask for P/N.



Part Number

TU-

X X X X X X X X X X X X

Please fill in the first 7 digits of
your desired connector insert (6-19 positions)
from pages B-A-01....

Connector with axial O-ring , flange with 4 holes 3.2 mm Ø

W B 0 0



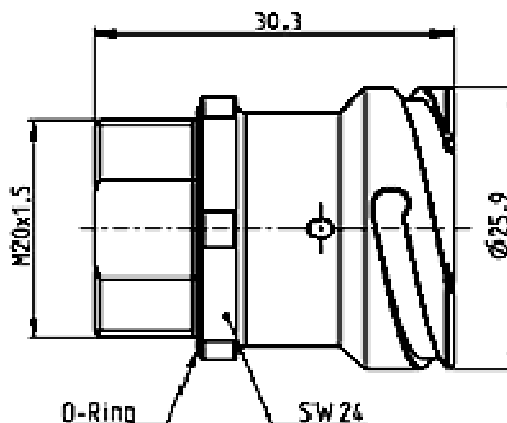
Shielded Connectors Bayonet Series TU
fits all TU-Cable Connectors with coupling nut
Shell style 61 (front mount receptacles)



mounting dimensions

Connector side view

Mounting hole
thread M20x1.5 mm



Assembly instructions: B-D-03
 Caps and accessories: pages B-H-01...

Mounting tools: page B-E-01 or screwdriver

Crimp tool for contacts: pages B-B-01...
 Crimp contacts: pages B-C-01.....

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 Connector with crimp insert - and
 contacts separate included. Please ask for P/N.



Part Number	TU-	X	X	X	X	X	X	X	X	X	X	X
Please fill in the first 7 digits of your desired connector insert (6-19 positions) from pages B-A-01....												
Connector with axial O-ring , mounting thread M20x1.5 mm									6	1	0	0

