

SOURIAU's discrete wire sealing



Description

Using proven grommet technology from SOURIAU's extensive knowledge of harsh environments, the **UTO & UTS connectors** with grommet guarantee a **discrete wire sealing** rated to **IP67/69K** (up to IP68/IP69K with the easy handling UTS plastic backshell).

Applications

UTO & UTS discrete wire sealing can be used in harsh environments, including applications such as:

- Construction & Agricultural machines
- Forestry
- Mining

Benefits

A discrete sealing solution

- A grommet with three sealing barriers
- Membranes pierced only when a terminated wire is loaded

Easy to assemble

- Grommet retained by a backshell nut maintaining a pressure seal

Ideal for Indoor / Outdoor applications

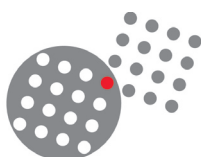
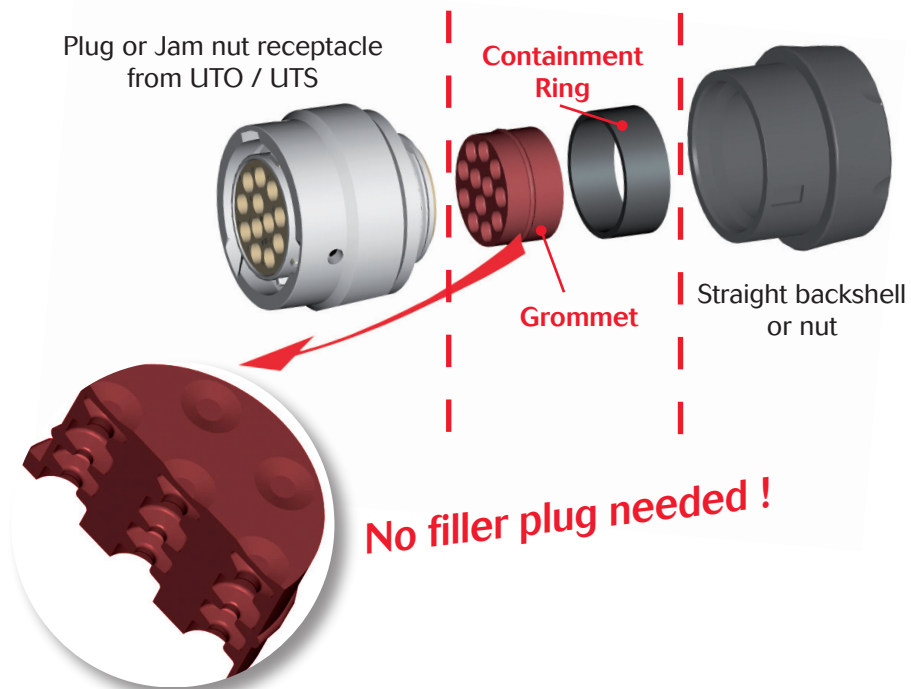
- Water protection IP67/69K (up to IP68/IP69K with the easy handling UTS plastic backshell)

RoHS compliant

- Respect for environment

SOURIAU's Offer

- Grommet version available with female plug & male receptacle
- 3 shell sizes available, 4 layouts

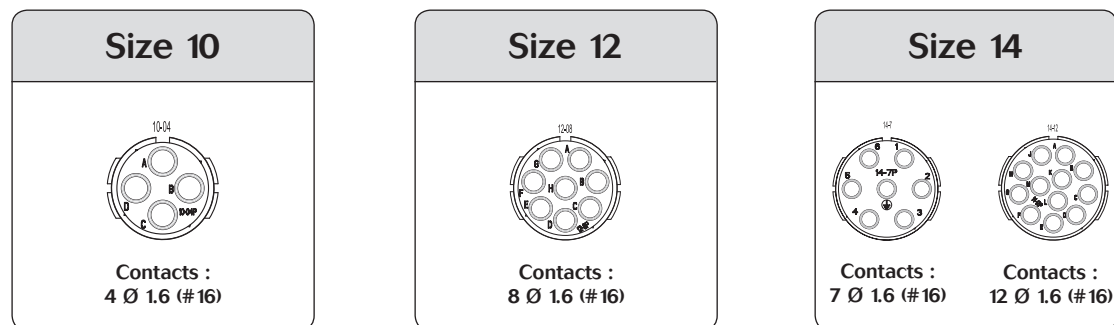


SOURIAU
Connection Technology

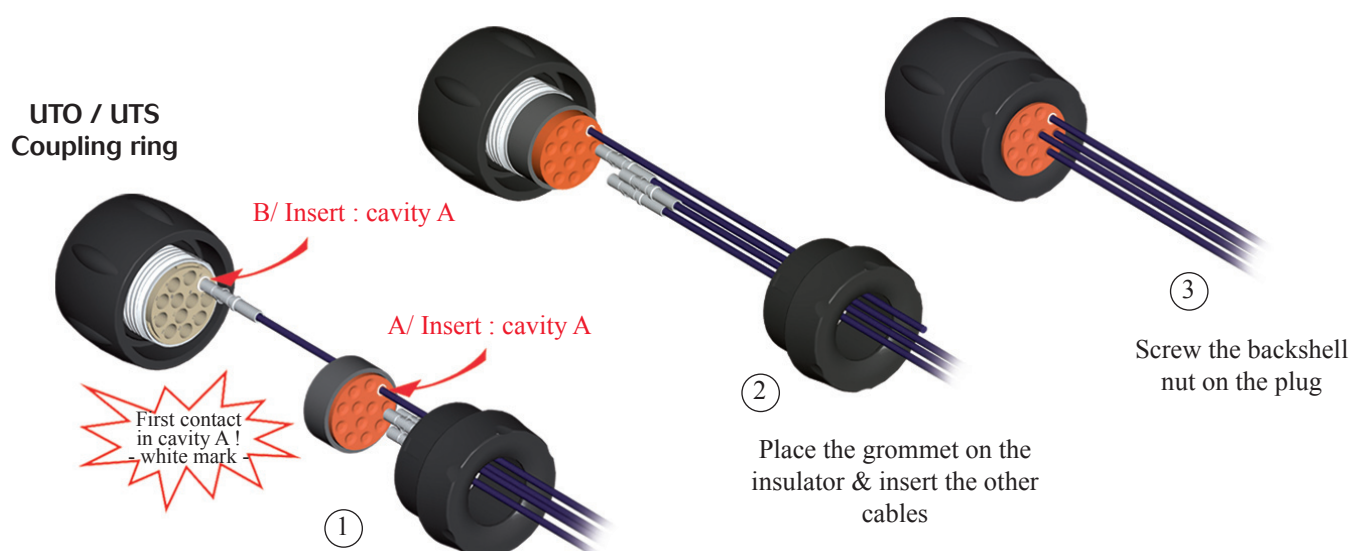
SOURIAU's discrete wire sealing



Contact layouts for UTO & UTS connectors



Assembly instructions - for UTO & UTS



Maintenance kit - for UTO & UTS

Maintenance kits are delivered as followed :

- 10 grommets according to contact gender & layout per bag
- The extraction tool for contacts inserted in grommet is the same as the one for contacts inserted without grommet
- Wiring instructions in packaging

Ordering information

Type	TTG			12	8	S
Insert arrangements	10	12	14			
Number of contacts	4	8	7 - 12			
Contact Gender						
P	Pin - only for receptacle					
S	Socket - only for cable plug					

UTO discrete wire sealing



Technical characteristics

Mechanical

- Durability: 500 matings & unmatings
- Thermal shock: Per MIL-STD202 method 207
- Wire insulation: Ø from 1.7 to 3.0 mm

Electrical

- Current per contact: 13A
- Insulation resistance: 5000 MΩ
- Test potential: 2000 Vac



Environmental

- Operating temperature: -40°C to + 105°C
- Flammability rating: UL94V0 and NFF16102 level 2
- Sealing (mated): IP67/69K (up to IP68/69K with the easy handling UTS plastic backshell)
- Salt spray resistance:
 - 48 hours - standard version
 - 96 hours - black anodized version

Material

- Connectors : Zinc alloy
- Backshell & cable glands: Brass
- Coupling ring: Aluminium alloy
- Coupling spring: Spring stainless steel
- Insert: Glass-filled thermoplast UL94-V0
- RoHS compliant & conform to the Chinese standard SJ/T 1166-2006 (Chinese RoHS equivalent)

Ordering information

Type	UTO		6	G	JC	14	12	S
	UTO		7	G	N	14	12	P
Connector type								
6	Cable plug							
7	Jam nut receptacle							
Grommet								
Rear of the connector								
JC	Backshell							
N	Nut							
Insert arrangements		10	12	14				
Number of contacts		4	8	7 - 12				
Contact Gender								
P	Pin - only for receptacle							
S	Socket - only for cable plug							

Range presentation

Plug + grommet + backshell

Technical drawing of a TRIM TRIO plug assembly. The side view shows the assembly with dimensions: ØA ±0.2, B (Backshell body), Backshell nut, Hexagon D, Capacity C, Coupling nut, Insert, Ring, Grommet, and E. The top view shows the circular arrangement of pins.

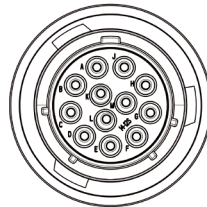
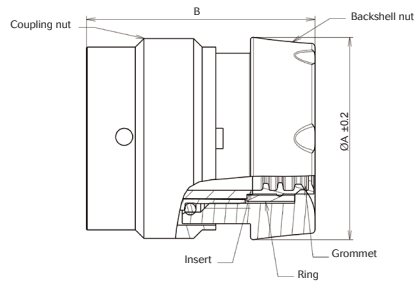
	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
ØA	22.00	25.50	29.75
B min.	62.00	65.5	70.00
Capacity C Standard seal	2.5 / 8	5 / 12	7 / 14
Capacity C Reducing seal	1.5 / 5	3 / 9	5 / 12
Hexagon D	18.50	24.00	26.00
E max.	29.00	32.70	36.70

Note : all dimensions are in mm



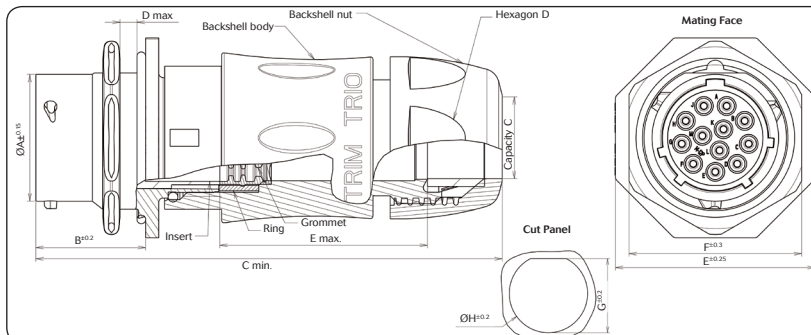
UTO discrete wire sealing

Plug + grommet + backshell nut



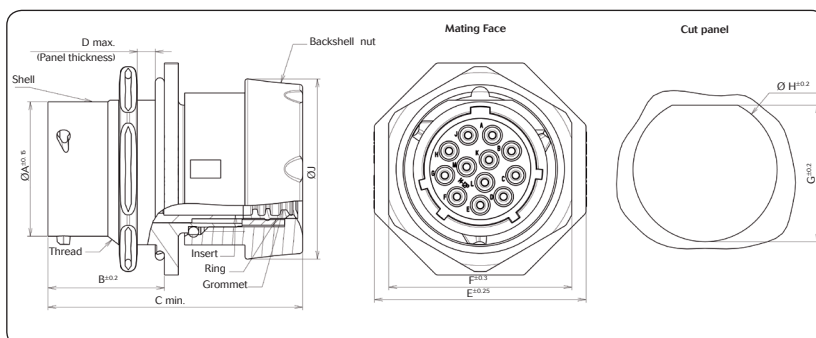
	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
Ø A	22.00	25.50	29.75
B min.	32.50	32.30	32.00

Jam nut receptacle + grommet + backshell



	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
A	14.9	19.0	22.2
B	19.3	19.3	19.3
C min.	70.5	74.0	80.5
D max.	3.2	3.2	3.2
E = 0.25	27.0	31.8	34.9
F	22.2	27.0	30.2
G	16.5	21.2	24.3
H	17.7	22.5	25.7
Capacity C Standard seal	2.5 / 8	5 / 12	7 / 14
Capacity C Reducing seal	1.5 / 5	3 / 9	5 / 12
E max.	30.5	34.0	36.5

Jam nut receptacle + grommet + backshell nut



	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
A	14.9	19.0	22.2
B	19.3	19.3	19.3
C min.	41.0	40.75	43.0
D max.	3.2	3.2	3.2
E	27.0	31.8	34.9
F	22.2	27.0	30.2
G	16.5	21.2	24.3
H	17.7	22.5	25.7
J max.	22.0	25.4	29.75

Note : all dimensions are in mm

UTS discrete wire sealing



Technical characteristics

Mechanical

- Durability: 250 matings & unmatings
- Thermal shock: Per MIL-STD 1344 method 1003
- Wire insulation: Ø from 1.7 to 3.0 mm

Electrical

- Current per contact: 13A
- Insulation resistance: 5000 MΩ
- Test potential: 2000 Vac
- Rated voltage: up to 320 V class III, PD 2 per **VDE0110** (IEC 60664-1)
- Rated voltage per UL1977 type 2: 500 V



Environmental

- Operating temperature: -40°C to + 105°C
- Flammability rating: UL94V0 and NFF16102 level 2
- Sealing (mated): IP67/69K (up to IP68/69K with the easy handling UTS plastic backshell)
- UV resistant: Sun and moisture as per ISO 4892
- Salt spray resistance: 500 hours

Material

- Connectors + Backshell: Thermoplastic
- Contacts: High conductive copper alloy
Min 0.4µm gold plating
- RoHS compliant & conform to the Chinese standard SJ/T 1166-2006 (Chinese RoHS equivalent)

Ordering information

Type	UTS	6	G	JC	14	12	S
	UTS	7	G	N	14	12	P
Connector type							
1	In-line connector						
6	Cable plug						
7	Jam nut receptacle						
Grommet							
Rear of the connector							
JC	Backshell						
N	Nut						
Insert arrangements							
	10	12	14				
Number of contacts							
	4	8	7 - 12				
Contact Gender							
P	Pin - only for receptacle						
S	Socket - only for cable plug						

Range presentation

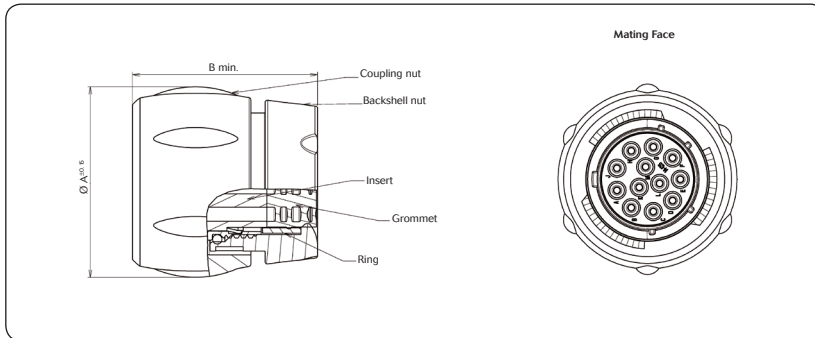
Plug + grommet + backshell			
	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
A	26.2	29.7	34.6
B min.	61.5	64.5	70.0
Capacity C Standard seal	2.5 / 8	5 / 12	7 / 14
Capacity C Reducing seal	1.5 / 5	3 / 9	5 / 12
Hexagon D	18.5	24	26
E max.	29.2	32.7	36.7

Note : all dimensions are in mm



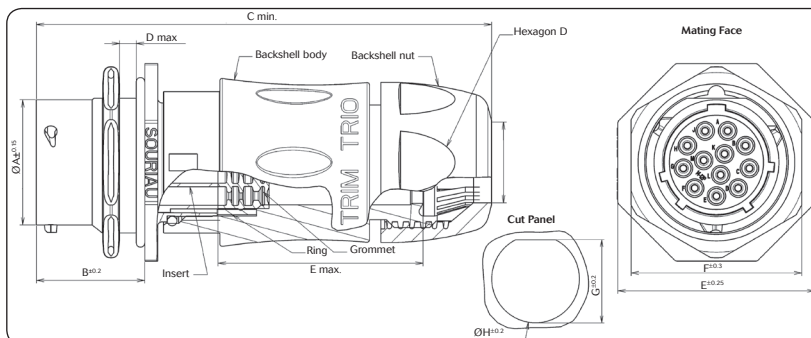
UTS discrete wire sealing

Plug + grommet + backshell nut



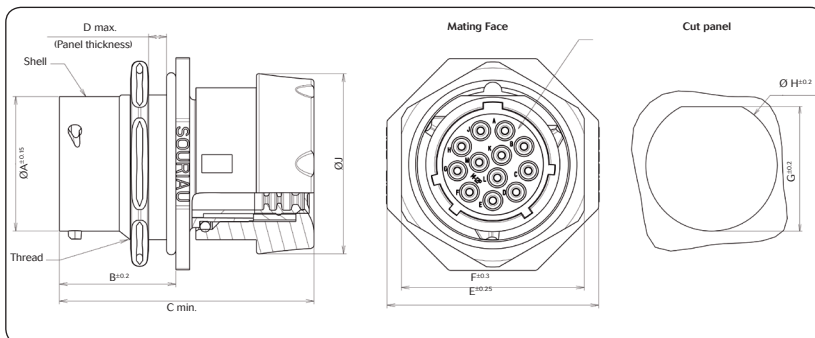
	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
A	26.2	29.7	34.6
B min.	32.5	32.3	32.0

Jam nut receptacle + grommet + backshell



	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
A	14.9	19.0	22.2
B	19.3	19.3	19.3
C min.	70.5	74.0	80.5
D max.	3.2	3.2	3.2
E = 0.25	27.0	31.8	34.9
F	22.2	27.0	30.2
G	16.5	21.2	24.3
H	17.7	22.5	25.7
Capacity C Standard seal	2.5 / 8	5 / 12	7 / 14
Capacity C Reducing seal	1.5 / 5	3 / 9	5 / 12
E max.	30.5	34.0	36.5

Jam nut receptacle + grommet + backshell nut



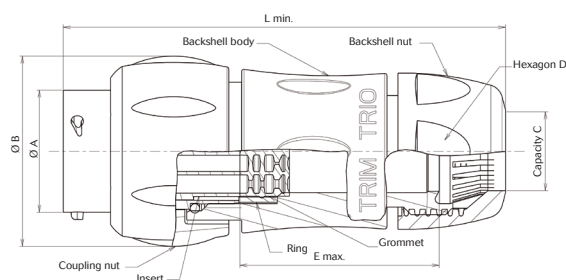
	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
A	14.9	19.0	22.2
B	19.3	19.3	19.3
C min.	41.0	41.5	43.0
D max.	3.2	3.2	3.2
E	27.0	31.8	34.9
F	22.2	27.0	30.2
G	16.5	21.2	24.3
H	17.7	22.5	25.7
J max.	22.0	25.4	29.8

Note : all dimensions are in mm



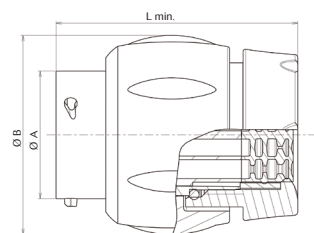
UTS discrete wire sealing

In-line + grommet + backshell



	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
Ø A	14.90	19.00	22.20
Ø B	26.20	29.70	34.60
L min.	70.75	74.50	80.50
Hexagon D	27.00	31.80	34.90
Capacity C Standard seal	2.5 / 8	5 / 12	7 / 14
Capacity C Reducing seal	1.5 / 5	3 / 9	5 / 12
E max	30.00	33.50	37.60

In-line + grommet + backshell nut



	Shell size		
	10	12	14
Layouts	10-4	12-8	14-7 14-12
Ø A	14.90	19.00	22.20
Ø B	26.20	29.70	34.60
L min.	40.90	40.90	43.00

For further information, visit our website www.souriau-industrial.com
or contact us at contactindustry@souriau.com

Note : all dimensions are in mm