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#### Description

#### IP68 / IP69K plastic circular connector with rapid locking system

"UTS" is the latest addition to the well known TRIM TRIO® interconnect system.

'UTS' is a range of Industrial circular multiway connectors available in 3 shell sizes and 9 contact arrangements.

The keywords for the new UTS are: Rapid – Secure – High performance



Secure

Rapid refers to the locking system and the total installed cost starting with the wiring & cabling and ending with the installation to the customers equipment. Rapid also refers to the total service on price request, samples and production deliveries.

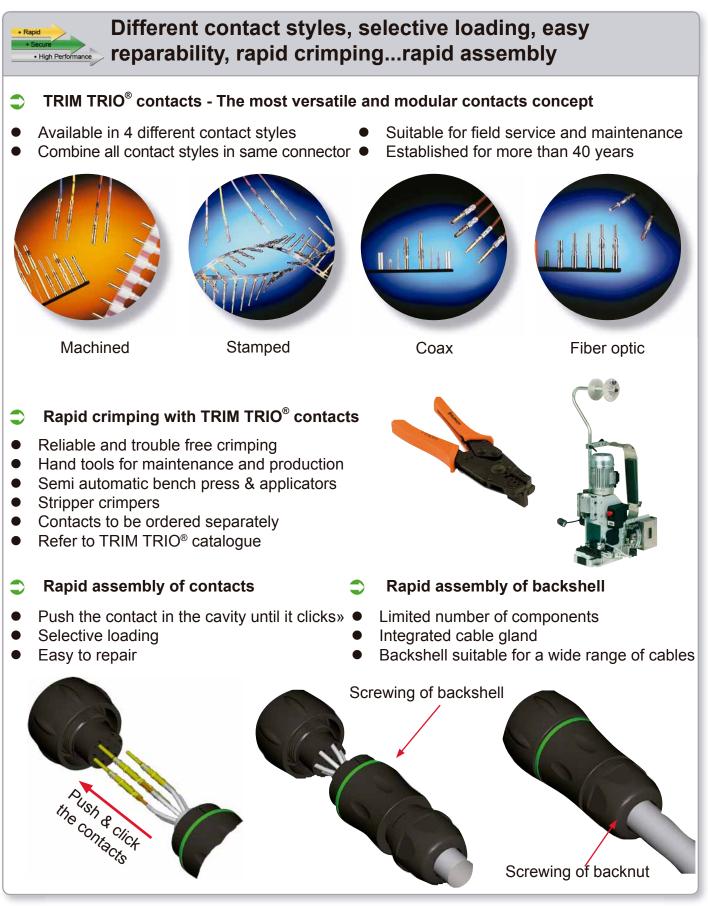
The secure locking system together with the secure and versatile TRIM TRIO<sup>®</sup> contacts are giving confidence to both the connection and the customers equipment.

Moreover UTS is part of the well known TRIM TRIO<sup>®</sup> interconnect system with its more then 40 years of field experience.

High Performance

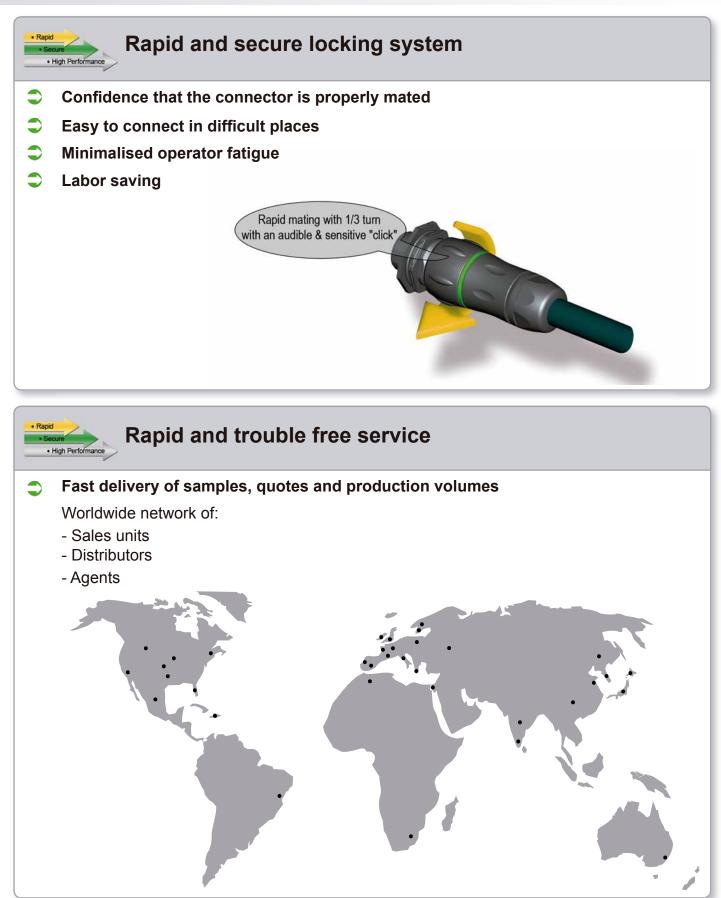
Extreme performance on water protection even in dynamic situations this in combination with a rapid and secure locking system makes UTS suitable for any high performance application.

UTS provides a connection that performs faster, easier, safer and more reliable, it makes : UTS : Your first choice in waterproof connectors !

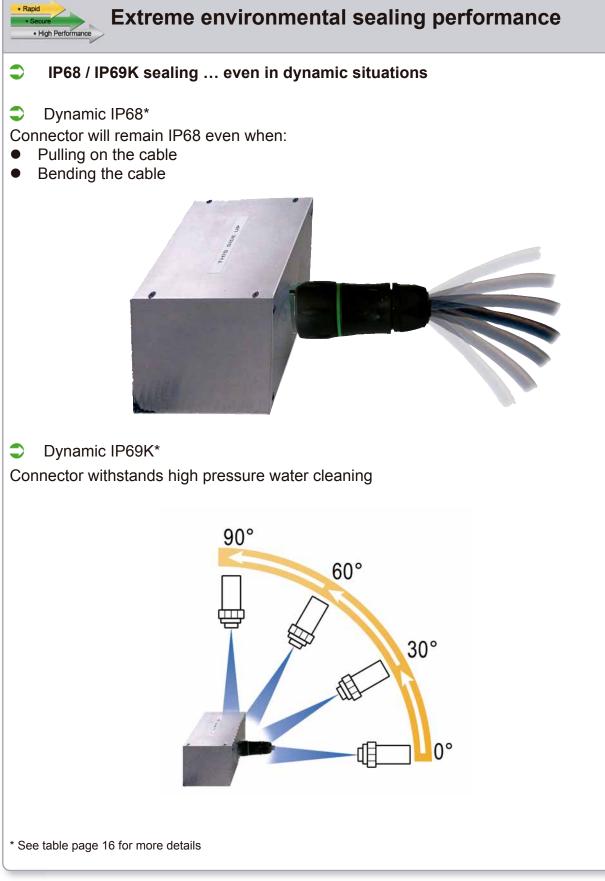


UTS : Your first choice in waterproof connectors !











### Multiple contact arrangements with VDE 0110 performances

#### Multiple contact arrangements within same connector size

- Different levels of current and rated voltages per VDE 0110
- Available in male and female gender
- Custom version upon request such as:
  - Mixed contact sizes
    - Power versions

Rapid

High Performance

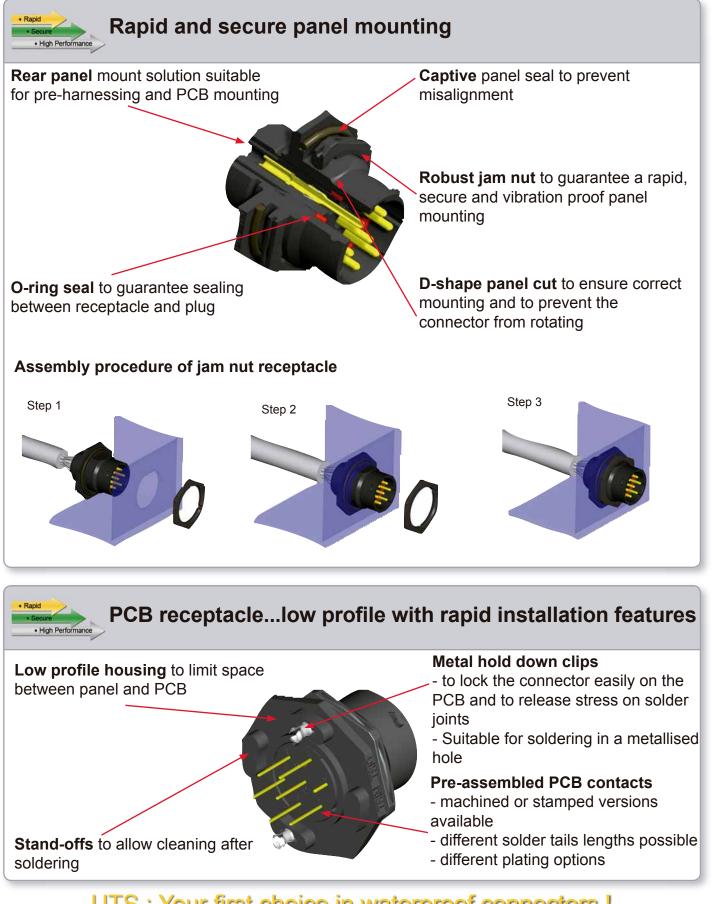
- High speed versions (RJ45, USB, BNC), upon request

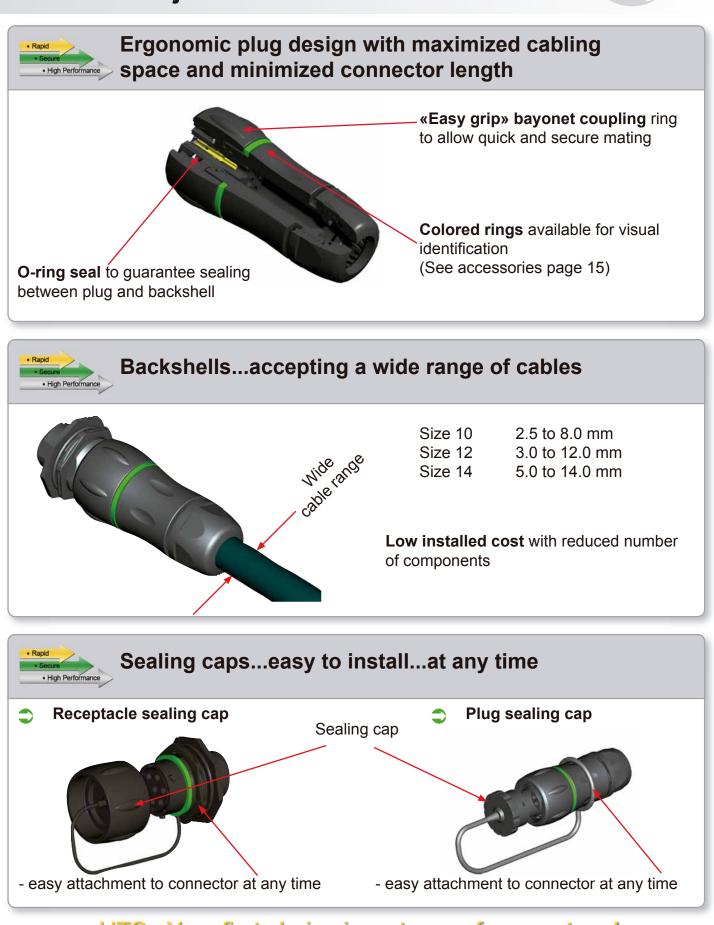
#### **UTS insert arrangements, contact size, rated voltage per VDE 0110 & current ratings**

Contact size	# 16 (dia	#20 (dia. 1.0mm)				
Rated voltage	250 V 125 V		125 V			
Overvoltage category	Ш	Ш	III			
Pollution degree	3	3	3			
Size 10	*					
Number of contacts	3 (2+ grounding) 4		6			
Max current (per contact)	13A (machined + stamped)	13A (machined + stamped) 13A (machined + stamped)				
Size 12						
Number of contacts	4 (3 + grounding)	4 (3 + grounding) 8				
Max current (per contact)	13A (machined + stamped)	13A (machined + stamped)	7.5A (machined)/ 5A (stamped)			
Size 14	* 147					
Number of contacts	7 (6 + grounding)	12	19			
Number of contacts						

\* Arrangements with advanced grounding cavity.







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#### **Technical characteristics**

#### **MECHANICAL**

- Durability: 250 matings & unmatings
  - Vibration resistance: Per CEI 60512-4
- Thermal shock: Per MIL-STD1344 method 1003

#### ELECTRICAL

- Insulation resistance: 5000 M $\Omega$  min
- Test potential: 2000 VAC
- As per VDE specifications (see page 8 for more details)

#### **ENVIRONMENTAL**

- -40°C to + 105°C Operating temp:
- UL94V0 and NFF16101 level 2 Flammability rating:
- Sealing (mated): Dynamic IP68 – 10m under water for 1 week per IEC60529 Dynamic IP69K per DIN40050
- UV resistant: No mechanical degradation or important variation of color after 5 years of exposure in natural environment (equivalence exposure to sun and moisture as per ISO 4892)
- 500 hours Salt spray:

#### MATERIAL

Connectors + Backshell: Thermoplastic

#### PLATING (only for PCB version)

- Plating for machined contacts:
- Plating for stamped contacts:

min 0.4 µ gold all over Min 0.4 µ gold in contact area  $3-5 \mu$  tin on solder tail

RoHS Compliant

Other platings upon request

#### CONTACT ACCOMMODATION

- "UTS" connectors accept TRIM TRIO<sup>®</sup> size 16 or size 20 (depending on arrangement) removable snap-lock contacts
- Contacts to be ordered separately (except PCB versions)
- Refer to TRIM TRIO<sup>®</sup> catalog for details or visit our website:

www.souriau.com --- products --- by connector type --- TRIM TRIO®--- contacts

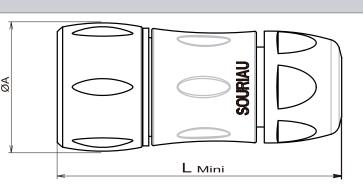
In accordance with UL requirements

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### Cable plug with backshell for pin and socket contacts (UTS6JC...P / UTS6JC...S)





Each plug has 2 seals to cover the specified cable range (See table below). The standard seal is preassembled

The second seal is supplied as loose piece together with a plug.

PN pin contact	PN socket	Nb of contacts x contact Ø	Shell size	L	ØA	Ø Cable range
UTS6JC103P	UTS6JC103S	3 x 1.6 mm		63.2	26.2	
UTS6JC104P	UTS6JC104S	4 x 1.6 mm	10			1.5 to 5.0 2.5 to 8.00 (standard)
UTS6JC106P	UTS6JC106S	6 x 1.0 mm				2.0 10 0.00 (Standard)
UTS6JC124P	UTS6JC124S	4 x 1.6 mm	12			
UTS6JC128P	UTS6JC128S	8 x 1.6 mm		66.7	29.7	3.0 to 9.0 5.0 to 12.0 (standard)
UTS6JC1210P	UTS6JC1210S	10 x 1.0 mm				3.0 to 12.0 (Standard)
UTS6JC147P	UTS6JC147S	7 x 1.6 mm	14		34.6	
UTS6JC1412P	UTS6JC1412S	12 x 1.6 mm		71.5		5.0 to 12.0 7.0 to 14.0 (standard)
UTS6JC1419P	UTS6JC1419S	19 x 1.0 mm				

For more detail on contact arrangements, see page 8.

Coloured ring supplied as optional extra (See page 15).

Contacts to be ordered separately.

For more details about TRIM TRIO<sup>®</sup> connectors, refer to TRIM TRIO<sup>®</sup> catalogue or visit our website: www.souriau.com → products → by connector type → TRIM TRIO<sup>®</sup>→ contacts

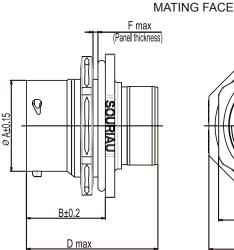
Note: All dimensions are in mm. Dimensions are not contractual and may be subject to modifications.

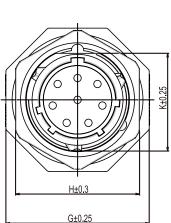
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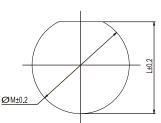
### Jam nut receptacle (wire version) for pin and socket contacts (UTS7...P/UTS7...S)







PANEL CUT OUT



PN pin contact	PN socket	Nb of contacts x contact Ø	Shell size	Ø A	в	D Max	F Max	G	н	к	L	ØМ	
UTS7103P	UTS7103S	3 x 1.6 mm	10	<b>10</b> 14.9	14.9 19.3	33.9	3.2	27.0	22.2	16.6	16.5		
UTS7104P	UTS7104S	4 x 1.6 mm										17.7	
UTS7106P	UTS7106S	6 x 1.0 mm											
UTS7124P	UTS7124S	4 x 1.6 mm	12	19.0	19.3	33.9	3.2	31.8	27.0	20.8	21.2	22.5	
UTS7128P	UTS7128S	8 x 1.6 mm											
UTS71210P	UTS71210S	10 x 1.0 mm											
UTS7147P	UTS7147S	7 x 1.6 mm	14										
UTS71412P	UTS71412S	12 x 1.6 mm		14	22.2	19.3	33.9	3.2	34.9	30.2	23.9	24.3	25.7
UTS71419P	UTS71419S	19 x 1.0 mm											

For more detail on contact arrangements, see page 8.

Coloured ring supplied as optional extra (See page 15).

Contacts to be ordered separately.

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Note: All dimensions are in mm.

Dimensions are not contractual and may be subject to modifications.

For free hanging applications, connector can be equiped with the same backshell as for the plug (please consult us).

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