

UTS series IP68 / IP69K Plastic Connector



High Performance



Company Profile



SOURIAU

Connectors and interconnect systems for harsh environments

The company designs, manufactures and markets high performance interconnect solutions for severe environments from industrial broadline and universal ranges to complex system with integrated functions: filtering, high speed data transmission, hermetic seal, separation mechanism, remote handling, underwater mating, ...



Industrial



Aeronautical



Equipment & system

The dedicated end markets for SOURIAU's products are aeronautical, defense-space and industrial



SOURIAU was established in 1917 and has been created by successive acquisitions of the industrial, aeronautical, defense and space activities of SOURIAU, JUPITER and BURNDY.

The Group's products are engineered and manufactured in the USA and Dominican Republic, Europe and Morocco, Japan and India, and sold by a worldwide sales and marketing organization, and in addition to SOURIAU's offices, a large network of licensed distibutors and agents.

SOURIAU complies with most of national and international Quality Assurance Standards, production unit with ISO 14001

Quality Certificate Management System

ISO 9001

Environment Certificate Management System

ISO 14001

Quality Certificate Management System

Aeronautic Industry : EN 9100





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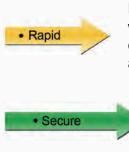
Description

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



High Performance

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[®] contacts are giving confidence to both the connection and the customers equipment.

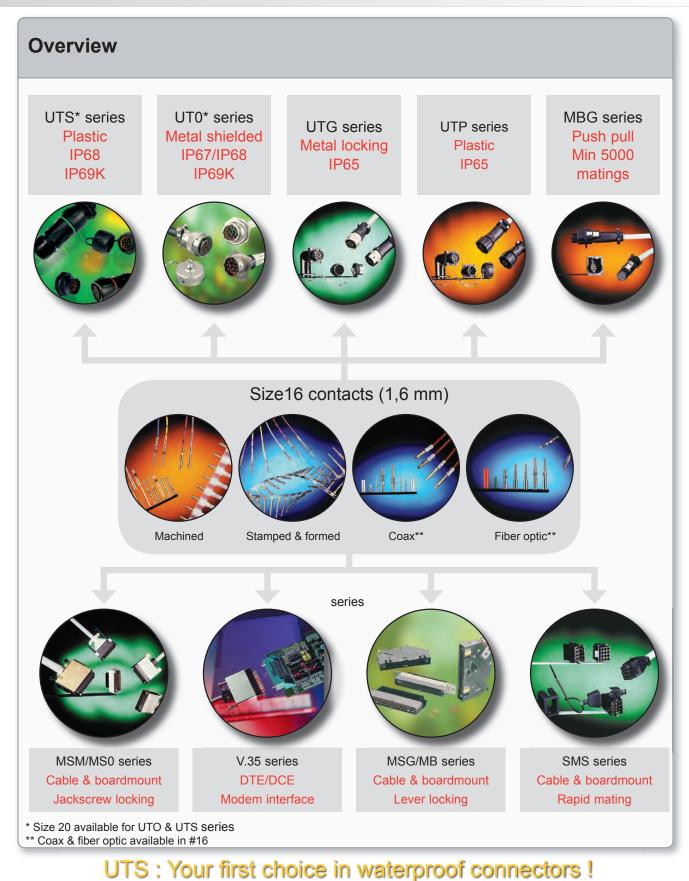
Moreover UTS is part of the well known TRIM TRIO[®] interconnect system with its more then 40 years of field experience.

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.

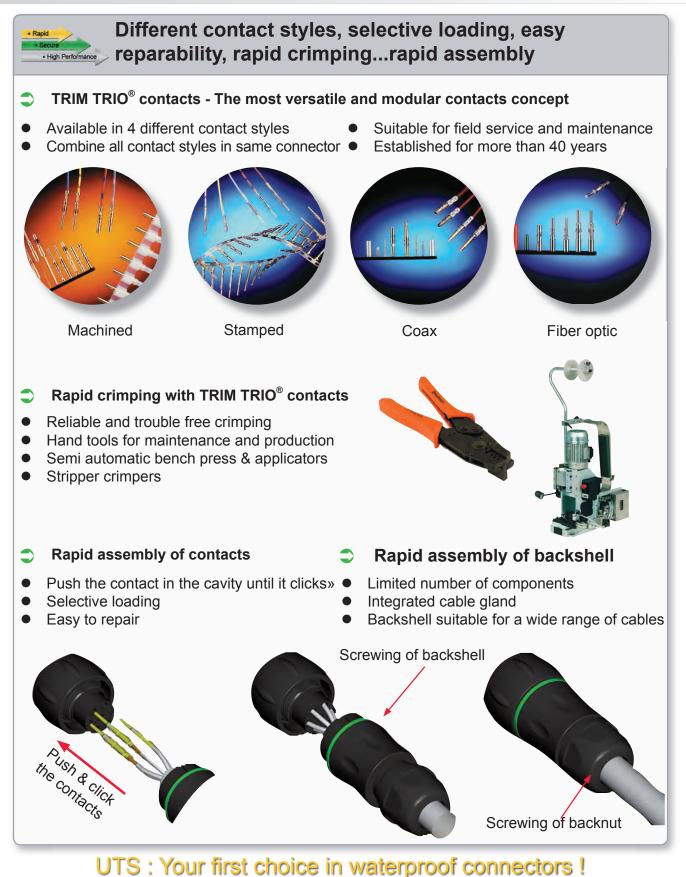
UTS provides a connection that performs faster, easier, safer and more reliable, it makes : UTS : Your first choice in waterproof connectors !



UTS - Part of TRIM TRIO® interconnect system

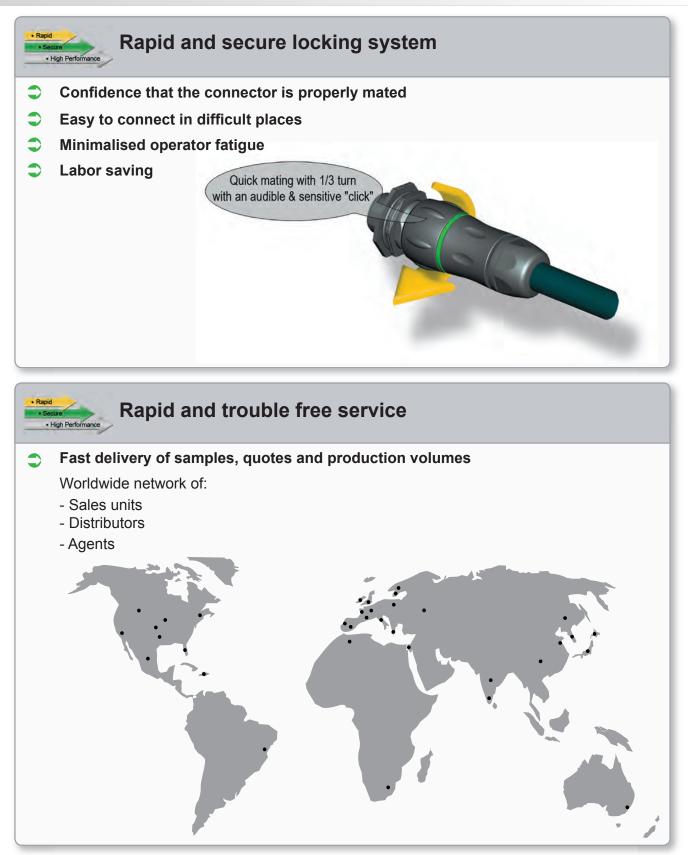






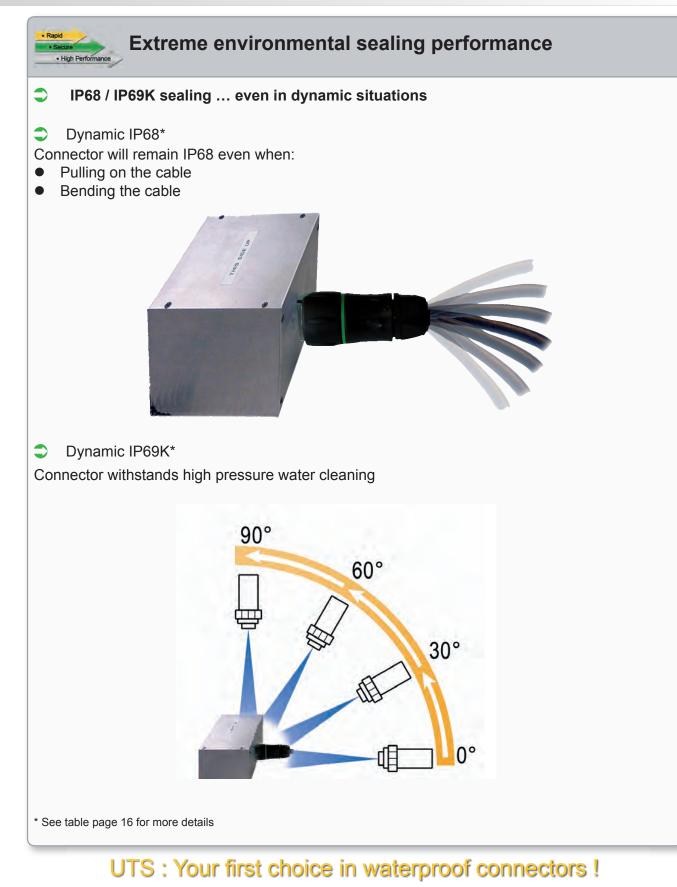
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UTS : Your first choice in waterproof connectors !







Multiple contact arrangements with VDE 0110 High 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

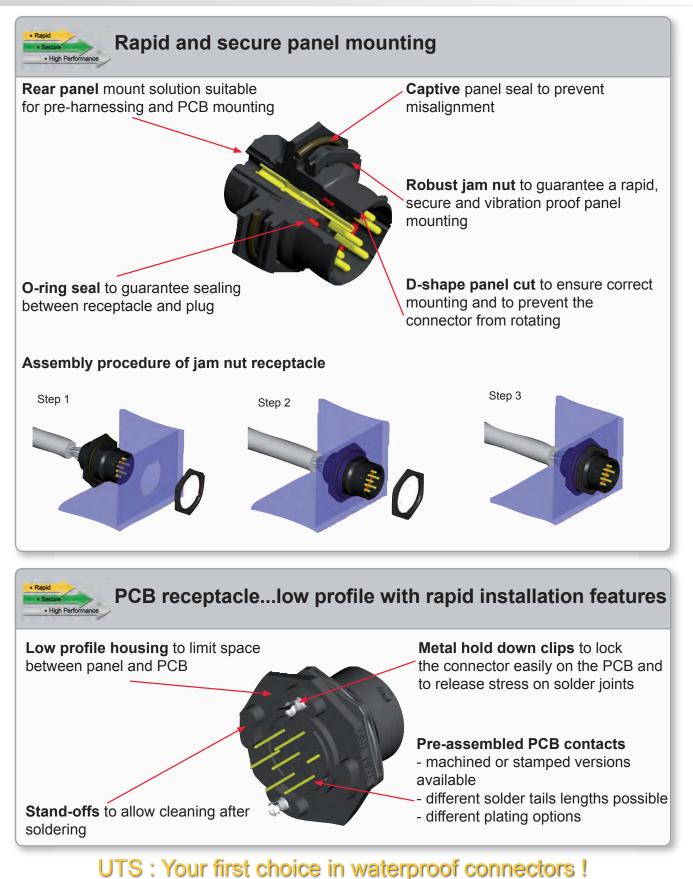
- High speed versions (RJ45, USB, BNC), upon request

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	III	III	III	
Pollution degree	3	3	3	
Size 10				
Number of contacts	3 (2+ grounding)	4	6	
Max current (per contact)	13A (machined + stamped)	13A (machine + stamped)	7.5A (machnied) / 5A (stamped)	
Size 12				
Number of contacts	4 (3 + grounding)	8	10	
Max current (per contact)	13A (machined + stamped)	13A (machine + stamped)	7.5A (machined)/ 5A (stamped)	
Size 14				
Number of contacts	7 (6 + grounding)	12	19	
Max current (per contact)	13A (machined + stamped)	13A (machined + stamped)	7.5A (machined)/ 5A (stamped)	

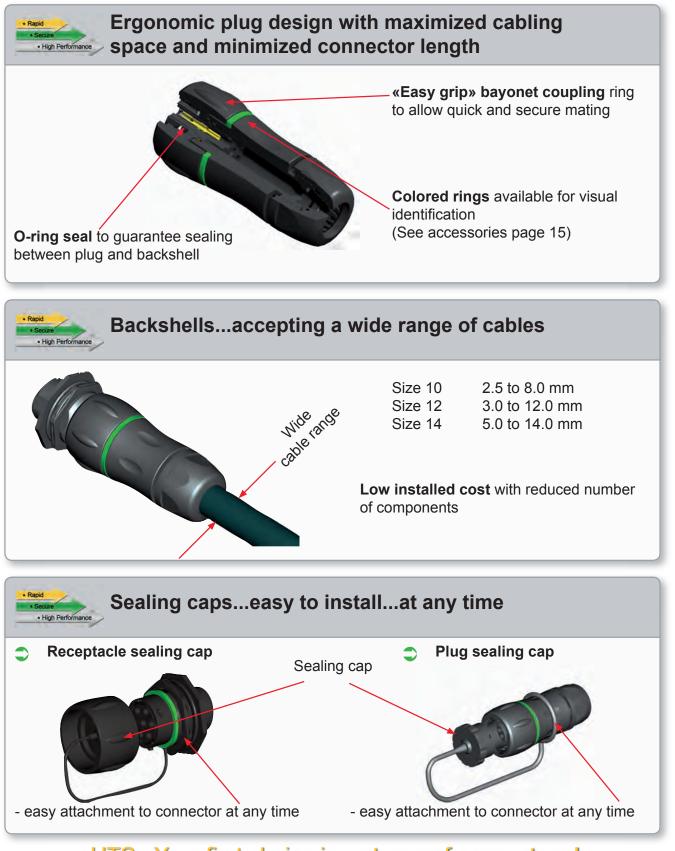
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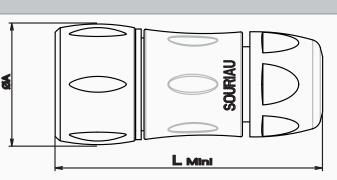


Rapid Secure High Performance				
MECHANICAL• Durability:250 matings & unmatings• Vibration resistance:Per CEI 60512-4• Thermal shock:Per MIL-STD1344 method 1003				
 ELECTRICAL Insulation resistance: 5000 MΩ min Test potential: 2000 VAC As per VDE specifications (see page 8 for more details) 				
ENVIRONMENTAL Operating temp: -40°C to + 105°C Flammability rating: UL94V0 and NFF16101 level 2 Sealing (mated): Dynamic IP68 – 10m under water for 1 week per IEC60529 Dynamic IP69K per DIN40050 UV resistant 500 hours				
• Connectors + Backshell: Thermoplastic Compliant				
 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 μ tin on solder tail 				
 CONTACT ACCOMMODATION "UTS" connectors accept TRIM TRIO[®] size 16 or size 20 (depending on arrangement) removable snap-lock contacts Refer to TRIM TRIO[®] catalog for details Contacts to be ordered separately (except PCB versions) 				
In accordance with UL requirements				
UTS : Your first choice in waterproof connectors !				



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 stabdard seal is preassembled The second seal is supplied as loose piece togoether with a plug.

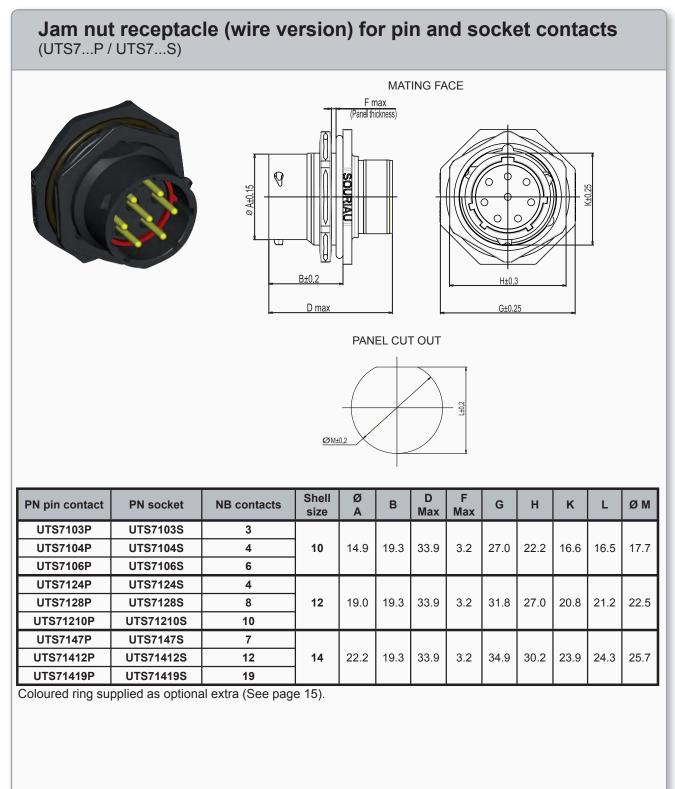
PN pin contact	PN socket	NB contacts	Shell size	L	ØA	Ø Cable range					
UTS6JC103P	UTS6JC103S	3	10	10 63.2	10 6	10 6	10 63	10			
UTS6JC104P	UTS6JC104S	4							63.2	26.2	1.5 to 5.0 2.5 to 8.00 (standard)
UTS6JC106P	UTS6JC106S	6					2.0 10 0.00 (Standard)				
UTS6JC124P	UTS6JC124S	4	12	12							
UTS6JC128P	UTS6JC128S	8			66.7	29.7	3.0 to 9.0 5.0 to 12.0 (standard)				
UTS6JC1210P	UTS6JC1210S	10				5.6 to 12.6 (Standard)					
UTS6JC147P	UTS6JC147S	7	14	14	14			5.0.1.10.0			
UTS6JC1412P	UTS6JC1412S	12				71.5	34.6	5.0 to 12.0 7.0 to 14.0 (standard)			
UTS6JC1419P	UTS6JC1419S	19				7.0 10 14.0 (Standard)					

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

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

UTS : Your first choice in waterproof connectors !





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UTS : Your first choice in waterproof connectors !



PCB jam nut receptacle for male contacts UTS714PSE4K9 MATING FACE G±0.25 F max H±0.3 (Panel thickness) 8 Ø A±0.15 B±0.2 J±0.2 C±0.2 D Max **DRILLING PATTERN** PANEL CUT OUT ±0.2 3,02 12,98 ø1.2(x7) ØM±0.2 Contact area of -/ receptacle on PCB Ø 3,1(x2) Shell D ØΑ В С Е F G н J L ØМ size Max 19.3 22.2 24.5 3.2 14 3 3.6 34.9 30.2 4 24.3 25.7 Other arrangements upon request. Stamped and formed contacts. Plating: K9 (std) = Min 0.4µ Gold in contact area, 3 - 5µ Tin on solder tail $T = 3 - 5\mu$ Tin all over Notes : All dimensions are in mm. Dimensions are not contractual and may be subject to modifications.

UTS

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Accessories

Receptacle sealing cap

Plug sealing cap





Part numbers Size 10: UTS10DCG Size 12: UTS12DCG Size 14: UTS14DCG Part numbers Size 10: UTS610DCG Size 12: UTS612DCG Size 14: UTS614DCG

Colour coding rings

Part numbers for receptacle

Size 10: UTS710CCR* Size 12: UTS712CCR* Size 14: UTS714CCR* * Add G for Green, Y for Yellow, R for Red

Part numbers for receptacle Size 10: UTS610CCR* Size 12: UTS612CCR* Size14: UTS614CCR* * Add G for Green, Y for Yellow, R for Red

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What is sealing and how it is specified

- The connector's housing, sealing and locking mechanism protect the connection from external influences such as mechanical shocks, foreign bodies, humidity, dust, water and other fluids.
- The degree of protection is explained in IEC 60529, DIN EN60529 (DIN 40050) standards that categorize connections according to foreign body and water protection.
- The degree of protection is indicated by IP (International Protection) followed by 2 digits (See example below):

First index figure (foreign bodies protection)

IP68

Second index figure

(water protection)

Code letters

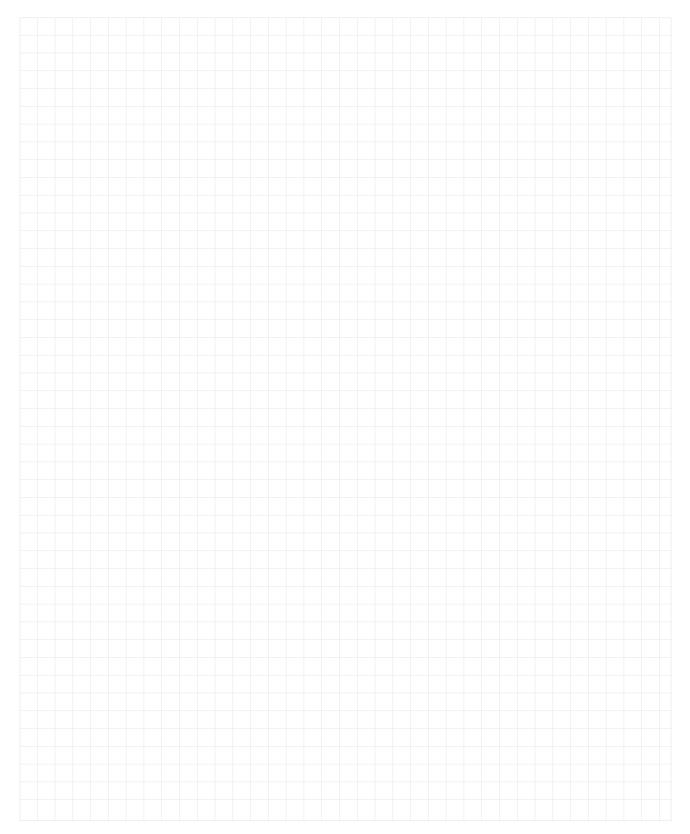
Index figure	Degree of protection	Index figure	Degree of protection
0	No protection against accidental contact. No protection against solid foreign bodies.	0	No protection against water.
1	Protection against contacts with any large area by hand and against large solid foreign bodies with a diameter bigger than 50mm.	1	Drip-proof. Protection against vertical water drips.
2	Protection against contacts with the fingers. Protection against solid foreign bodies with a dia- meter bigger than 12mm.	2	Drip-proof. Protection against water drips up to a 15° angle.
3	Protection against tools, wires or similar objects with a diameter bigger than 2.5mm Protection against small solid bodies with a diame- ter bigger than 2.5mm.	3	Spray-proof. Protection against diagonal water drips up to a 60° angle.
4	As 3 however diameter is bigger than 1mm.	4	Splash-proof. Protection against splashed water from all directions.
5	Full protection against contacts. Protection against interior injurious dust deposits.	5	Hose-proof. Protection against water (out of a nozzle) from all directions.
6	Total protection against contacts. Protection against penetration of dust.	6	Protection against temporary flooding.
		7	Protection against temporary immersions.
	•	8	Protection against water pressure. Pressure to be specified by supplier.
	UTS offers high sealing performance IP68 / IP69K Even in dynamic situations.	9К	High pressure hose-proof. Protection against high pressure water (out of a nozzle) from all directions.

SOURIAU reserves the right to make any engineering refinments, alterations or improvements deemed necessary on its products. The dimensions appearing in this catalogue are thus subject to change without notice. When dimensions are critical detailed drawings should be requested

UTS : Your first choice in waterproof connectors !



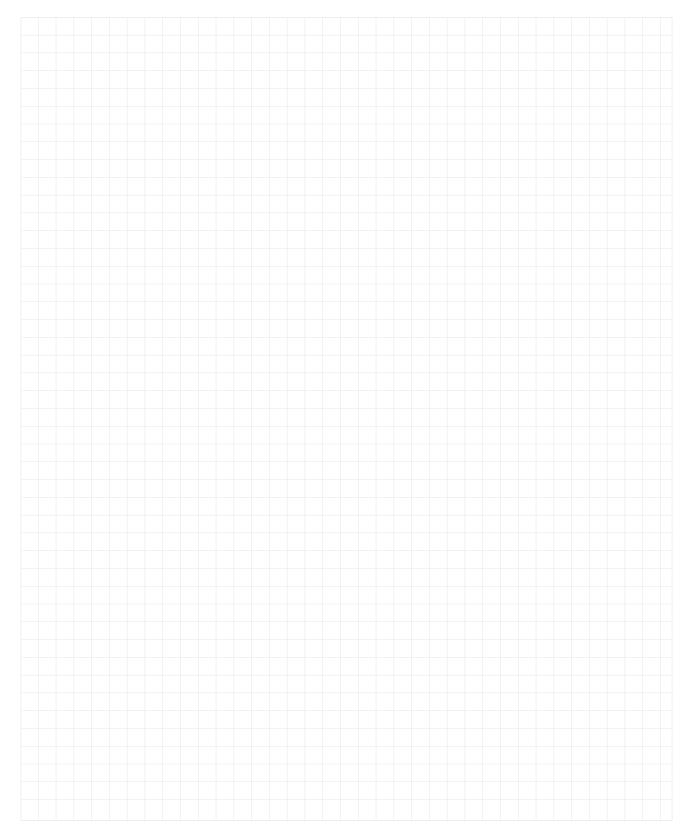
Notes





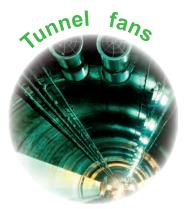


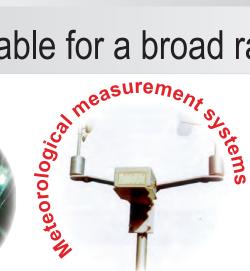
Notes





UTS - Suitable for a broad range of applications





Its uses are endless! here are a few...





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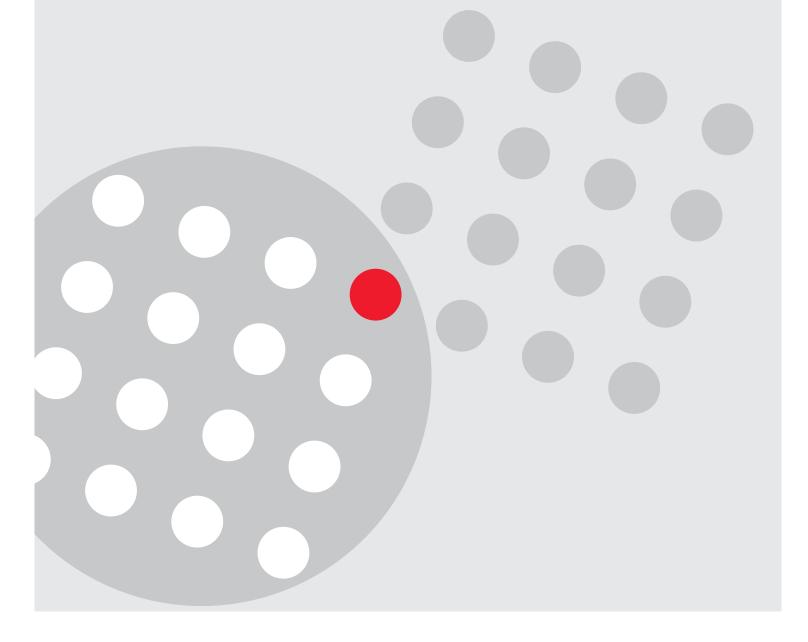
trumentes

systems beopeoing





and there is more ...: coast gua street maintenance, Wind mills, Off road equipment, Antenna dish, Solar technology, Machine tools, Lightning / theatre, Outdoor advertising, Food processing **Elevators & lifts** Measuring / Test / Inspection Wheel chairs, Medical applications, etc...





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