



Industrial Circular Connectors



SOURIAU
Connection Technologies

Features & Benefits

WATER PROOF

IP68/69K Dynamic Mated & Unmated

Ideal for outdoor and indoor dynamic applications requiring continuous underwater immersion, routine pressure washing and dust protection.

UV RESISTANT

No Degradation & Long Outdoor Life

No mechanical deterioration or significant color variation after 5 years of exposure in natural environment (equivalent exposure and moisture as per ISO4892 and F1 rated per UL 746C).

QUICK MATING

Push-Pull Latch with Audible "Click" or 1/3 Bayonet Coupling

Quick and blind mating coupling systems with audible "click" and tactile feel to confirm proper mating achieved.

Eliminates connection uncertainty and reduces time and labor during installation.

COST SAVING

Mixed Power & Signal Layouts

Power supply and signal transmission can be combined in a unique interconnect solution to reduce system complexity and minimize component and installation costs.

SIGNAL INTEGRITY

EMI Shielding: 65 dB at 100 Mhz

Qualified and compatible for electromagnetic radiation areas with proper signal integrity and transmission.

CORROSION RESISTANT

Salt Spray & Fluid Resistance

Designed to maintain mechanical/electrical functionality and withstand climate ingress, exposure to salt spray, corrosive atmospheres or industrial-type fluids and oils.

UL/IEC COMPLIANT

Qualified & Certified

In accordance with UL/IEC electrical, flammability and other safety standards.

Typical applications



■ Machinery & Robotics



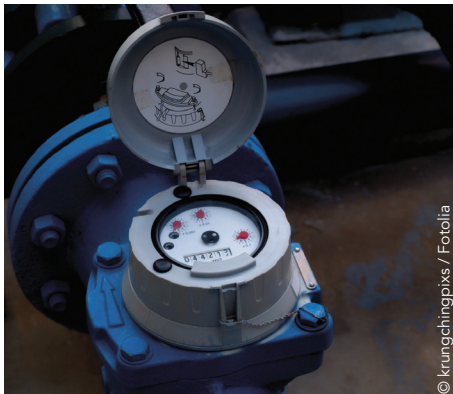
■ Building Automation & Control



■ Energy & Power



■ Off-Road, Mining & Railway



■ Instrumentation & Measurement



■ Telecom & Datacom



■ Stage & Lighting



■ Medical

Industrial Circular Connectors Description












	CLIPPER Affordable Reinforced Sealing 	UTS Affordable Reinforced Sealing 	UTG Intensive Use
Shell type	Plastic	Plastic	Plastic + metal cou
Coupling type	180° screw coupling with positive audible safety latch	1/3-turn bayonet & audible click	1/3-turn bayonet & audible click
Waterproof / IP rating <small>*with solder or O'ring contacts</small>	IP67/68	IP68/69K mated/unmated*	IP65
Salt spray	> 1,000 hours	≥ 500 hours	48 hours
Special attributes	UL & CSA approved	UV resistant & UL/IEC	Lightweight plastic robust metal coupling
Plating type	No plating	No plating	Nickel
Temperature range	-40° C +125° C	-40° C +105° C	-55° C +125° C
Mating cycles	250	250	500
Number of shell sizes	4 sizes (1, 2, 3, 4) [Diameter 21 to 40 mm]	5 sizes (8, 10, 12, 14, 18)	8 sizes (10, 12, 14, 16, 18, 20, 22, 24)
Number of layouts	7 layouts	36 layouts	17 layouts
Wire gauge	14 - 24 AWG	8 - 30 AWG	8 - 30 AWG
Contact size range	#16, #20	#8, #12, #16, #20	#8, #12, #16, #20
Receptacle configurations	Square flange & in-line receptacle	Square flange jam nut & in-line threaded receptacle	Square flange & in-line
Contact current rating	Up to 13 AMPS	Up to 44 AMPS	Up to 44 AMPS
Contact termination types	Solder, crimp, PCB straight	Solder, crimp, PCB straight, screw, coax	Solder, crimp, PCB straight, coax
Contact types	Stamped & formed, machined	Stamped & formed, machined, coaxial & fiber optic	Stamped & formed, machined, coaxial & fiber optic
Mixed power & signal layouts	No	Yes	Yes
Flammability rating	UL94 V0 (UL94 HB for sealed unmated version)	UL94 V0 (UL94 HB for sealed unmated version)	UL94 V0
Ethernet compatible <small>**certain layouts</small>	No	Yes**	Yes**
Environmental			

Example of equivalent products available

Inter-mateable (1)	None	SOURIAU® UTG-UTO-UTP Series	SOURIAU® UTS-UTO-UTP Series ITT Cannon TR & TN
AMPHENOL® Series Cross-reference	None	C016 Series = IP65/67 mated (less layouts vs SOURIAU)	None
ITT Cannon Series Cross-reference (1)	None	None	Trident Ringlock TR-Series (less layouts vs SOURIAU) Trident Neptune TN-Series = grommet

(1): Product series are conditionally inter-mateable with same shell size/layout pattern but IP, Electrical and Mechanical performances may be affected. SOURIAU cannot guarantee or warranty product performance levels when mated.

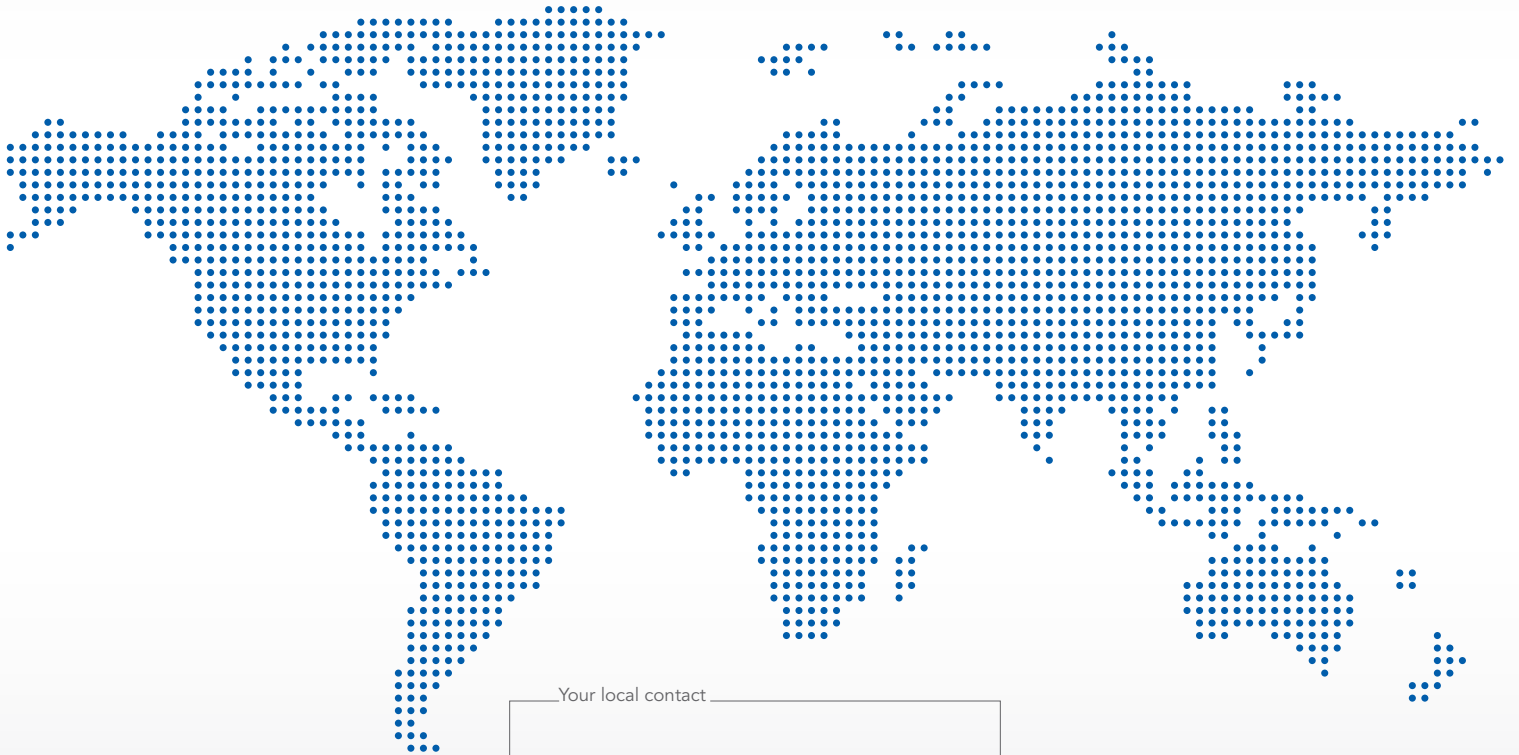
			
	<p>UTO Full Metal & Shielding</p> 	<p>UTL Push-Pull & Blind Mate</p> 	<p>851 Full Metal & Corrosion Resistant</p> 
Coupling	Metal	Plastic + metal latch	Metal
Mounting	1/3-turn bayonet & audible click	Push-Pull & audible click	1/3-turn bayonet & audible click
IP Rating	IP68/69K mated	IP68/69K mated/unmated*	IP67 mated (with appropriate backshells) IP68 (with cable gland)
Life	48 hours - Nickel 96 hours - Black anodized	> 1,000 hours	> 500 hours
EMI/RFI & UL/IEC	EMI shielding (98 dB at 1 MHz) & UL/IEC	Key shape blind mate, UV resistant & UL/IEC, current breaking capacity	High density layout (2 to 61 contacts) Robust and corrosion resistant
Plating	Black anodized or Nickel	No plating (latch stainless steel)	Black Zinc Nickel or Nickel
Temp. Range	-40° C +105° C	-40° C +105° C	-55° C +125° C
Current	500	1,000	500
Wire Gauge	8 sizes (10, 12, 14, 16, 18, 20, 22, 24)	3 sizes (10, 12, 14)	9 sizes (8, 10, 12, 14, 16, 18, 20, 22, 24)
Layouts	27 layouts	4 layouts	38 layouts
Wire Size	8 - 30 AWG	14 - 30 AWG	14 AWG and smaller
Strain Relief	#8, #12, #16, #20	#16, #20	#16, #20
Mounting Style	Square flange, jam nut & in-line	Square flange, jam nut & in-line	Square flange, jam nut & in-line
Current Capacity	Up to 44 AMPS	Up to 16 AMPS	Up to 13 AMPS
Termination	Solder, crimp, PCB straight, coax	Crimp, screw, coax	Solder, crimp, PCB straight
Material	Stamped & formed, machined, coaxial & fiber optic	Stamped & formed, machined, coaxial & fiber optic	Machined
Shielding	Yes	Yes	Yes
UL Rating	UL94 V0	UL94 5VA	UL 94 HB
Compliance	Yes**	Yes + DMX/DALI/RDM	Yes**
			

Available on the market (non limitative list)

Series N Series	SOURIAU® UTS-UTG-UTP Series ITT Cannon TNM Series	None	MIL-DTL-26482 connectors
	RT360 (only IP67) RT-Series = #16 contacts RTOW-Series = #20 contacts (less layouts vs SOURIAU)	None	PT/PTSE/ 62GB / 62IN
Series = IP65 (SOURIAU) = IP67 w/sealing	Trident Neptune Metal TNM-Series = IP67 (less layouts vs SOURIAU)	None	KPT/KPSE

Not to be used in conjunction with non-SOURIAU product. Panel cut-out dimensions and inter-changeability between ITT Cannon & SOURIAU Series not currently validated. Consult with factory.

Reliable People, Reliable Solutions



Your local contact



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