# SOURIAU



# Hybrid Power + Control solution

An innovative and compact solution allowing power and signal delivery in one connector.

High performance & secure solution	Compatible with RS 485 (2 twisted pairs + braid) Terminating 120 Ohms resistor Current Breaking Capacity Finger touch proof
UL/IEC qualification time saving	Safety standard oriented UL 1977 & IEC 61 984 qualified
Easy and robust interconnection	Push and Press to release mating system Stainless Steel latch Key Hole design for blind mating High resistance to shocks and vibrations
High outdoor life expectancy 📕	F1 material per UL 746C IP68 / 68K sealing level Moisture proof



### **Qualification Time Saving**

In today's fast paced environment we are all buying electronic devices with confidence. To achieve such a high level of trust, the legislator put in place a wide variety of safety standards. Some are dedicated to the equipment, some to the connection.

SOURIAU designed and qualified the UTL series according to the UL 1977 and IEC 61984 but we also took into account additional requirements.



In this way, the UTL series is also compliant with ALL equipment standards mentioned below.



### Easy equipment qualification

#### Now, the qualification of your equipment is much easier.

UL201	Safety standard of industrial equipment
UL 1995	Heating and cooling equipment
UL 2238	Cable assemblies and fittings for industrial control and signal distribution
IEC 60601	Medical equipment
IEC 61010	Safety requirements for electrical equipments for measurement, control, and laboratory use
IEC 60598	Street lights
UL/IEC 60950	Information technology equipment



### Description

- The UTL Series is a plastic connector range that meets industrial safety standards.
- The «Key hole» of the coupling system allows blind mating. In dark conditions the mechanical discriminations allow easy mating to avoid connector damage.
- The stainless steel latch coupling system is simple to use. With only 1 finger, connectors are mated with an audible click.
- The UTL Series is rated at IP68/69K even in dynamic conditions and remains sealed even when used continuously underwater or cleaned using a high pressure hose while the cable is moving.
- The UTL Series uses an outdoor rated material per Underwriters Laboratories.
- Cable assembly equipped with DMX + Power cables suitable for outdoor use (PUR or Neoprene outer jacket).

### **Technical Features**

#### **Materials**

- Housing: Thermoplastic
- Contacts: 3x #16 + 5x #20
- Latch: Stainless steel

#### Electrical

- UL: 16A 600V V0 13A 277V for CBC use
- CN: 13A 600V 10A 277V for CBC use
- IEC: 16A 500V 6KV 4 13A 250V 4KV 4 for CBC use
- Connector specially designed to be engaged or disengaged in normal use when live or under load
- First Mate Last Break contact mating on ground line
- Signal lines: RS485 compliant 2.5A 10V
- Finger touch proof

#### • In accordance with:

- UL 1977: UL file number ECBT2.E169916
- IEC 61984: please consult us
- C22.2 N°182.3: file number ECBT8.E169916
  IEC60065, IEC60598, UL1598, IEC60320, UL498, UL94, UL746, IEC61076-2-103



#### Environmental

- Operating temperature (according to IEC61984): From -40°C to +105°C for connector From -25°C to +60°C for cable assemblies due to cable performances
- Flammability rating: UL 94: V-0 for connector UL94: 5VA for thermoplastic UL746C: 5 inch (127mm) end-product flame test
- Salt spray: ≥1,000 hours
- UV resistant: No mechanical degradation or important

color variation due to environmental exposure (F1 material per the UL 746C)

#### • Sealing:

- IP68/69K mated with standard contacts

RoHS Compliant

#### • Fluid resistance:

- Gas and oil
- Mineral oil
- Acid bath
- Basic bath
- Halogen free
- RoHS compliant

#### Mechanical

- Durability:
  - 250 mating in CBC (current breaking capacity) use (UL1977; IEC61984)
  - 500 mating in COC use (IEC61984)
  - 1,000 matings & unmatings tested

#### Coupling system:

- Sensitive and audible click
- Blind mating

#### Touchproof:

IP2X in unmated conditions (connector equipped with socket contacts)



### **Connector Part Number**

Plugs and receptacles have to be equipped with both contact genders. Ground lines will never be equipped with the same contacts between the neutral and phase.

Contract true o	Compository trunc	Part number						
Contact type	Connector type	Male insert with female ground	Female insert with male ground					
Crimp contacts	Crimp contacts Plug UTL6:		UTL6122G1W5S					
supplied separately see page 7	Jam nut receptacle	UTL7122G1W5P	UTL7122G1W5S					
	In line receptacle	UTL1122G1W5P	UTL1122G1W5S					
	Terminating resistance plug - 120Ω	UTL6102G1W5PCDMX	UTL6102G1W5SCDMX					
-	Terminating resistance receptacle - 120Ω	UTL1102G1W5PCDMX	UTL1102G1W5SCDMX					

### Evaluation kit - For more informations see page 14

Contact	Wire	section	Connector	Accession	Part n	umber			
type	Power	Signal	Туре	Accessories	Male insert with female ground	Female insert with male ground			
	16AWG / 1.5mm <sup>2</sup>	24AWG / 0.22mm <sup>2</sup>	Plue		UTL6122G1W5P16AWG	UTL6122G1W5S16AWG			
Crimped contacts	14AWG / 2.5mm <sup>2</sup>	24AWG / 0.22mm <sup>2</sup>	Flug		UTL6122G1W5P14AWG	UTL6122G1W5S14AWG			
	16AWG / 1.5mm <sup>2</sup>	24AWG / 0.22mm <sup>2</sup>	In line	Shrink boot	UTL1122G1W5P16AWG	UTL1122G1W5S16AWG			
Stamped	14AWG / 2.5mm <sup>2</sup>	24AWG / 0.22mm <sup>2</sup>	receptacle		UTL1122G1W5P14AWG	UTL1122G1W5S14AWG			
& Formed	16AWG / 1.5mm <sup>2</sup>	24AWG / 0.22mm <sup>2</sup>	Jam nut		UTL7122G1W5P16AWG	UTL7122G1W5S16AWG			
	14AWG / 2.5mm <sup>2</sup>	24AWG / 0.22mm <sup>2</sup>	receptacle	No accessory	UTL7122G1W5P14AWG	UTL7122G1W5S14AWG			

### **Overmoulded Cable Assembly Part Number**

Layout 122G1W5	Description	Connector and	Overmould type	Length*				
	Description	Connector Overmould type		1m	2m			
10001145	In line	Male In line receptacle	Straight	HAUTL12G1W5PS1M	HAUTL12G1W5PS2M			
	in line	Female In line receptacle	Straight	HAUTL12G1W5SS1M	HAUTL12G1W5SS2M			
12201005	Plug	Male plug		Straight	HAUTL62G1W5PS1M	HAUTL62G1W5PS2M		
		Female plug	Straight	HAUTL62G1W5SS1M	HAUTL62G1W5SS2M			

\* : For other lengths or specific design requirement consult us

### Dimensions (For mated connector lengths see page 14)













Note: all dimensions are in mm and for information only

### **Accessories and Tooling**













#### Head Crimp Tooling (without handle)

Contacts	Contact size	Part number of head
RM/RC 24W3K <sup>(1)</sup>		S20RCM*
RM/RC 20W3K <sup>(1)</sup>	Standard contacts	S20RCM*
RM/RC 18W3K <sup>(1)</sup>	#20	S20RCM*
SM/SC 24WL3 <sup>(1)(2)</sup>	Ø 1mm	S20SCM20*
SM/SC 20WL3 <sup>(1)(2)</sup>		S20SCM20*
RM/RC 28M1K <sup>(1)</sup>		S16RCM20*
RM/RC 24M9K <sup>(1)</sup>		S16RCM20*
RM/RC 20M13K <sup>(1)</sup>		S16RCM20*
RM/RC 20M12K <sup>(1)</sup>		S16RCM20*
RM/RC 16M23K <sup>(1)</sup>	Standard contacts	S16RCM16*
RM/RC 14M30K <sup>(1)</sup>	#16	S16RCM14*
SM/SC 24ML1TK6 <sup>(1)</sup>	Ø 1.6mm	S16SCM20*
SM/SC 20ML1TK6 <sup>(1)</sup>		S16SCM20*
SM/SC 16ML1TK6 <sup>(1)</sup>		S16SCML1*
SM/SC 14ML1TK6 <sup>(1)</sup>		S16SCML1*
SM/SC 16ML11TK6 <sup>(1)</sup>		S16SCML11*
RMDXK10D28K		
RCDXK1D28K	Coaxial contacts	140547
RM/RC DX60xxD28K		M10S1J with die set &
RM/RC DXK10D28 + york090	#16 Ø 1.6mm	stop bushing
RM/RC DX60xxD28		
(1): Example of plating, for other * Heads to be used with handle I	plating options see UTL cata PN: SHANDLES	log (2): loose contact







Complete set

### **Contacts**

#20	Contract true o	A)A/C	Part n	Max	Max	
#20	) Contact type AWG		Male	Female	wire Ø	insulator Ø
		26-24	RM24W3K <sup>(1)</sup>	RC24W3K <sup>(1)</sup>	0.80	1.60
	Machined	22-20	RM20W3K <sup>(1)</sup>	RC20W3K <sup>(1)</sup>	1.15	1.60
0		20-18	RM18W3K <sup>(1)</sup>	RC18W3K <sup>(1)</sup>	1.30	2.10
in		26-24	SM24W3TK6(1)(2)	SC24W3TK6 <sup>(1)(2)</sup>	-	0 90-1 60
Ū	Stamped & Formed reeled	26-24	SM24W3S26 <sup>(1)(2)</sup>	SC24W3S25 <sup>(1)(2)</sup>	-	0.90-1.60
	contacts	22-20	SM20W3TK6 <sup>(1)(2)</sup>	SC20W3TK6 <sup>(1)(2)</sup>	-	1.20-2.10
	See note (2) for loose piece	22-20	SM20W3S26 <sup>(1)(2)</sup>	SC20W3S25 <sup>(1)(2)</sup>	-	1.20-2.10
#16						
		30-28	RM28M1K <sup>(1)</sup>	RC28M1K <sup>(1)</sup>	0.55	1.00
	Machined	26-24	RM24M9K <sup>(1)</sup>	RC24M9K <sup>(1)</sup>	0.80	1.60
		22-20	RM20M13K <sup>(1)</sup>	RC20M13K <sup>(1)</sup>	1.15	1.80
		22-20	RM20M12K <sup>(1)</sup>	RC20M12K <sup>(1)</sup>	1.15	2.20
0		20-16	RM16M23K <sup>(1)</sup>	RC16M23K <sup>(1)</sup>	1.80	3.20
<u>i</u>		16-14	RM14M30K <sup>(1)</sup>	RC14M30K <sup>(1)</sup>	2.30	3.20
ΰ		26-24	SM24M1TK6 <sup>(1)(2)</sup>	SC24M1TK6 <sup>(1)(2)</sup>	-	0.90-1.60
	Stamped & Formed Reeled	22-20	SM20M1TK6 <sup>(1)(2)</sup>	SC20M1TK6 <sup>(1)(2)</sup>	-	1.20-2.10
	Contacts	18-16	SM16M1TK6 <sup>(1)(2)</sup>	SC16M1TK6 <sup>(1)(2)</sup>	-	3.20
	See note (2) for loose piece	18-16	SM16M11TK6 <sup>(1)(2)</sup>	SC16M11TK6 <sup>(1)(2)</sup>	-	3.00
		14	SM14M1TK6 <sup>(1)(2)</sup>	SC14M1TK6 <sup>(1)(2)</sup>	-	3.20
	Cable Multipiece	For jacket diameter from	RMDXK10D28	RCDXK1D28	-	_
_	Coble Managering	1.78 to 3.05mm	DMDVCQvvD30			
xia		Inner conductor up to 2.44mm diameter			-	-
Соа	Twisted pair Multipiece	For jacket diameter from 0.64 to 1.45mm	KMDXK10D28 + york090	xCDXK1D28 + york090	-	-
	Twisted pair Monocrimp	Inner conductor from AWG30 to AWG24	RMDX60xxD28	RCDX60xxD28	-	-

Example of plating, for other plating options see UTL catalog
For loose piece contact packaging, place "L" in part number. Example: SM20ML1TK6

Note: all dimensions are in mm

#### REMINDER

Plugs and receptacles have to be equipped with both contact genders. EX: UTL6122G1W5P = 2 x SM16M1TK6 (power) + 1 x SC16M1TK6 (ground) + 5 x SM20W3TK6 (signal)

#### **Electrical characteristics**

#### UL 16A 600V V0 13A 277V for CBC use

CN 13A 600V 10A 277V for CBC use

#### IEC 16A 500V 6KV 4 13A 250V 4KV 4 for CBC use



### **Contacts** (Continued)

Electrical	characteristics: contact r	esistance	Contact size	Available plating	gs options (contacts supplied separately)
#20	Machined	< 6mΩ	#20	S25 Female contact	Active part: 0.75µ gold min over 2µ Ni Crimp area: Gold flash over Ni
Ø1mm Stamped and Formed < 6mΩ   Machined < 3mΩ	S26 Male contact	Active part: 0.75µ gold min over 2µ Ni Crimp area: Gold flash over Ni			
#16	Machined	< 3mΩ		S31	Active part: Gold flash over Ni Crimp area: Nickel
Ø1.6mm	Stamped and Formed	< 6mΩ 518 #16	S18	Active part: 0.75µ gold min over 2µ Ni Crimp area: 1.3µ tin over Ni Other: Nickel	
				J	Gold flash over 2µ Ni
				D70	Superseded by S31
				\$6	Superseded by S18
			#20 and	К	Min 0.4µ gold over 2µ Ni
			#16	ТК6	2-5µ Sn pre-plated
			Other	platings on reques	t (contacts supplied separately)
			#16	т	2µm Ni min all over + 3 to 5µm Sn all over
	D28	D28	0.75µ gold over Ni		

# Packaging - Size contacts #20 & #16 Due to the wide variety of applications, contact packaging is offered for small series (bulk package) and high volume production (reeled contacts): Stamped & Formed • 25 pieces loose package • 3 000 pieces reeled Machined contacts 00000 • 2 000 pieces reeled • 50 pieces bulk package • 1 000 pieces bulk package

Note : 1 000 pieces bulk package available by adding 1000 at the end of the part number: e.g. RC16M23K1000 2 000 pieces reeled package available by adding K at the begining of the part number: e.g. KRC16M23K

**Plating Selector Guide** 



(1) contact reeled (2) loose contact Exemple: **RM16M3K** - Size #16, Machined, AWG20 wire, gold plating.

#### REMINDER

Plugs and receptacles have to be equipped with both contact genders. Examples: UTL6122W3G1P =  $2 \times SM16M1TK6$  (power) +  $1 \times SC16M1TK6$  (ground) +  $5 \times SM20W3TK6$  (signal)

### **Assembly Instructions**



Dimensions for information only, stripping dimensions could be adjusted according to the cable type.

#### Ground contact must be opposite gender than power contact.

### Wire Stripping Length

	Part n	Stripping length L*							
	Male	Female	(mm)						
	RM24W3-/RM20W3-/RM18W3-	RC24W3-/RC20W3-/RC18W3-	4.8						
Machined contact		#16 - Ø 1.6mm							
	RM28M1-/RM24M9-/RM20M13-/RM20M12-	RC28M1-/RC24M9-/RC20M13-/RC20M12-	4.8						
	RM16M23-/RM14M30-	RC16M23-/RC14M30-	7.1						
	#20 - Ø 1mm								
Stamped & formed	SM24W3-/SM24WL3-/SM20W3-/SM20WL3-	SC24W3-/SC24WL3-/SC20W3-/SC20WL3-	4						
with insulation	#16 - Ø 1.6mm								
support	SM24M1-/SM24ML1-/SM20M1-/SM20ML1-	SC24M1-/SC24ML1-/SC20M1-/SC20ML1-	4						
	SM16M11-/SM16ML11-	SC16M11-/SC16ML11-	4.65						
Stamped & formed		#16 - Ø 1.6mm							
without insulation	SM16M1-/SM16ML1-	SC16M1-/SC16ML1-	6.35						
support	SM14M1-/SM14ML1-	SC14M1-/SC14ML1-	6.35						



1) Fully close then release the tool, keep it open. Open the 2 pins.



3) Close the two pins simultaneously to maintain the head.



5) Place conductors, with no deterioration, in the contact bucket. All strands to be located in the crimp bucket.



7) Tighten sharply the handles to the end of the mechanism (max 175 N). After handles are opened, extract the contact.



2) Choose the adapter head (sold separately), keep vertical and slide it into the handle until the mechanical end.



4) Strip the cable properly check the recommended size in the catalog on page 10.



6) Position the contact in the bottom of the tool by checking its orientation. Maintain the wire in position.



8) Control the quality of crimping (see next page).



### Assembly Instructions (Continued)

### **Crimping Control**

One of the key factors which affects the performance of a connector is the way contacts are terminated. Crimped connections are nowadays seen as the best solution to ensure quality throughout the lifetime of the product. Here are some reasons why we recommend this method of termination for UTL connectors:

#### Advantages (Extract from the IEC 60352-2):

- Efficient processing of connections at each production level
- Processing by fully-automatic or semi- automatic crimping machines, or with hand operated tools
- No cold-soldered joints
- No degradation of the spring characteristic of female contacts by the soldering temperature





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- No health risk from heavy metal and flux steam
- Preservation of conductor flexibility behind the crimped connection
- No burned, discolored and overheated wire insulation
- Good connections with reproducible electrical and mechanical
- performances
- Easy production control.

To ensure that the crimp tooling is performing according to original specifications, it is important to carry out regular checks. A common way to check the performance of tooling is with a simple pull test, ideally using a dedicated electric pull tester. Minimum recommended pull forces are indicated in the tables below:



Active contact part	Contact type	Die location on heads	Wire section range	Section (mm²)	Tensile straight test (mini)	Height (mm) H (±0.075)	Width (mm) W (±0.075)	Tooling head part number
	RM24W3K	24/24	26 AWG	0.12 min	15 N	0.05	1.27	
Machined	RC24W3K	20/24	24 AWG	0.25 max	32 N	0.95	1.27	
contacts size	RM20W3K	22/20	22 AWG	0.32 min	40 N	1.26	1 78	SOOPCM
#20	RC20W3K	22/20	20 AWG	0.50 max	60 N	1.20	1.70	320100
Ø1mm	RM18W3K	20/18	20 AWG	0.50 max	60 N	1 35	1.86	
	RC18W3K	20/10	18 AWG	0.82 max	90 N	1.55	1.00	
S & F	S & F SM24WL3TK6*		26 AWG	0.12 min	15 N	0.80	1 /19	
contacts size	SC24WL3TK6*	20/24	24 AWG	0.25 max	32 N	0.00	1.47	SJASCMJA
#20	SM20WL3TK6*	22/20	22 AWG	0.32 min	40 N	1.01	1 5 3	52050120
Ø1mm	SC20WL3TK6*	22/20	20 AWG	0.50 max	60 N	1.01	1.55	
	RM28M1K*	30/28	30 AWG	0.05 min	11 N	1 1 4	1 4 1	
_	RC28M1K*	30/20	28 AWG	0.08 max	11 N	1.14	1.71	
Machined contacts size #16	RM24M9K*	26/24	26 AWG	0.12 min	15 N	1 1 5	1 / 1	
	RC24M9K*	20/24	24 AWG	0.25 max	32 N	1.15	1.41	S16PCM20
	RM20M13K*		22 AWG	0.32 min	40 N			STORCHZO
	RC20M13K*	22/20	20 AWG	0.50 max	60 N	1.26	1 76	
	RM20M12K*	22/20	22 AWG	0.32 min	40 N	1.20	1.70	
Ø 1.6 mm	RC20M12K*		20 AWG	0.50 max	60 N			
		20	20 AWG	0.50 max	60 N	1.66	2.18	
	RC16M23K*	18	18 AWG	0.82 max	90 N	1.80	2.28	S16RCM16
_	REIGHESK	16	16 AWG	1.50 max	150 N	1.96	2.43	
	RM14M30K*	16	16 AWG	1.50 min	150 N	2.10	2.68	\$160CM1/
	RC14M30K*	14	14 AWG	2.50 min	230 N	2.30	2.78	STORCHI
	SM24ML1TK6*	26/24	26 AWG	0.12 min	15 N	0.84	1 50	
_	SC24ML1TK6*	20/24	24 AWG	0.25 max	32 N	0.04	1.50	\$165CM20
	SM20ML1TK6*	22/20	22 AWG	0.32 min	40 N	1.02	1 5/	51050020
S & F	SC20ML1TK6*	22/20	20 AWG	0.50 max	60 N	1.02	1.54	
contacts size	SM16ML11TK6*	18	18 AWG	0.82 min	90 N	1.32	2.09	S165CMI 11
#16	SC16ML11TK6*	16	16 AWG	1.50 max	150 N	1.36	2.10	JIOJCHEII
1.0 mm	SM16ML1TK6*	18	18 AWG	0.82 min	90 N	1.49	2.02	
	SC16ML1TK6*	16	16 AWG	1.50 max	150 N	1.7	2.05	S165CMI 1
	SM14ML1TK6* SC14ML1TK6*	14	14 AWG	2.50 max	230 N	1.79	2.58	STOSCIET

\* example of plating, for other plating see page 34

#### UTL6 or UTL1 Assembly

- Strip wires (see page 10)
- Crimp contacts (see page 11)
- Place all the contacts inside the corresponding cavities
- Manually push each contact, or use our tool (RTM205 for #16 contacts), until audible click. Check each contact retention, with two finger retraction
- Do an overmolding on the wired set or use heat shrink boot



### UTL7 Assembly (Mounting Suggestion) • Slide nut over the wires O-ring Jam nut • Strip wires (see page 10) • Crimp contacts (see page 11) • Place all the contacts inside the corresponding cavities • Manually push each contact, or use our tool (RTM205 for #16 contacts), until audible click. Check each contact retention, with two finger retraction • Seat o-ring, place receptacle in the panel cut-out (see dimension page 5) • Tighten jam nut torque: 2.5 Nm maxi, tightening tool: 7/8" Panel thickness: 3mm max Final view O-ring

### Mated Connector Length



### **Evaluation Kit 8 Contacts Part Number (122G1W5)**

						Kit contains													
			22G1W5S	22G1W5S	22G1W5P	22G1W5S	22G1W5P	22G1W5S	hrink boot	NL3S26	VL3S25	NL3S26	VL3S25	ML1S31	1L1S31	ML1S31	1L1S31		
Part number	Connector type	Gender	Wire s	ection mm <sup>2</sup>	UTL61	UTL11	UTL11	UTL11	UTL71	UTL71	Heat s	SM20\	SC20V	SM24\	SC24V	SM16	SC16N	SM14	SC14N
UTL6122G1W5P16AWG	Plug	Male power	16	1.5	1	-	-	-	-	-	1	2	-	5	-	3	2	-	-
UTL6122G1W5P14AWG	Plug	Male power	14	2.5	1	-	-	-	-	-	1	2	-	5	-	-	-	3	2
UTL6122G1W5S16AWG	Plug	Female power	16	1.5	-	1	-	-	-	-	1	-	2	-	5	2	3	-	-
UTL6122G1W5S14AWG	Plug	Female power	14	2.5	-	1	-	-	-	-	1	-	2	-	5	-	-	2	3
UTL1122G1W5P16AWG	Inline receptacle	Male power	16	1.5	-	-	1	-	-	-	1	2	-	5	-	3	2	-	-
UTL1122G1W5P14AWG	Inline receptacle	Male power	14	2.5	-	-	1	-	-	-	1	2	-	5	-	-	-	3	2
UTL1122G1W5S16AWG	Inline receptacle	Female power	16	1.5	-	-	-	1	-	-	1	-	2	-	5	2	3	-	-
UTL1122G1W5S14AWG	Inline receptacle	Female power	14	2.5	-	-	-	1	-	-	1	-	2	-	5	-	-	2	3
UTL7122G1W5P16AWG	Jam nut receptacle	Male power	16	1.5	-	-	-	-	1	-	-	2	-	5	-	3	2	-	-
UTL7122G1W5P14AWG	Jam nut receptacle	Male power	14	2.5	-	-	-	-	1	-	-	2	-	5	-	-	-	3	2
UTL7122G1W5S16AWG	Jam nut receptacle	Female power	16	1.5	-	-	-	-	-	1	-	-	2	-	5	2	3	-	-
UTL7122G1W5S14AWG	Jam nut receptacle	Female power	14	2.5	-	-	-	-	-	1	-	-	2	-	5	-	-	2	3

Note: all dimensions are in mm and for information only

### **Evaluation Kit – Assembly Instructions**

The boot is semi-flexible and heat-shrinkable with a moldable adhesive inner lining.

- Place the heat shrink boot over the cable  $oldsymbol{0}$
- Place the contacts in their cavities, checking the retention by slightly pulling the cable  ${f 2}$
- Clean the connector surface and the cable jacket with isopropyl alcohol
- (Note: It is advised to rub the jacket with sand paper and clean the jacket before shrinking the boot)
- Position the boot over the rear threads  ${f 3}$
- Heat the boot with a heat gun: minimum shrink temp: 80°C minimum full recovery temp: 110°C make sure to apply the heat evenly around the boot. Starting by applying the heat from the rear of the connector.

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- Do not apply excessive heat, as it will damage the connector and/or boot. • Let the boot cool down **5**
- Check for good retention and the boot glue grip **6**.

For stripping and crimping information, please see page 10













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

