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UTO SERIES



# SOURIAU

Robust Metal & Shielded Connector





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# UTO SERIES

# Overview

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## Typical Applications



Energy - Power



Robotics - Machine tools



Building Automation & Control



Instrumentation measurement



Off road - Mining - Railway



Telecom - Data infrastructure

## Features & Benefits

### WATER PROOF

#### IP68/69K Dynamic Mated

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

### SIGNAL INTEGRITY

#### EMI Shielded

65 dB at 100 Mhz: Qualified and compatible to be used in electromagnetic radiation areas and ensures proper signal integrity and transmission.

### CORROSION RESISTANT

#### Salt Spray 48 & 96 Hours

Designed to withstand climate ingress and exposure to salt spray or corrosive atmospheres while still maintaining mechanical and electrical functionality.

### QUICK MATING

#### 1/3 Bayonet Coupling

With only 1/3 twist of the bayonet coupling system, connectors are mated with audible "click" and tactile feel to confirm proper mating. This mating features eliminates connection uncertainty and reduces time and labor during installation.

### COST SAVINGS

#### Mixed Power & Signal Layouts

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



Single Wire Sealing



Straight Strain Relief



Right Angle Strain Relief



Short Cable Gland



Long Cable Gland



Heat Shrink Boot Adapter



Overmoulded



Choice of Crimp Contacts

- machined
- stamped and formed
- coaxial
- fiber optics



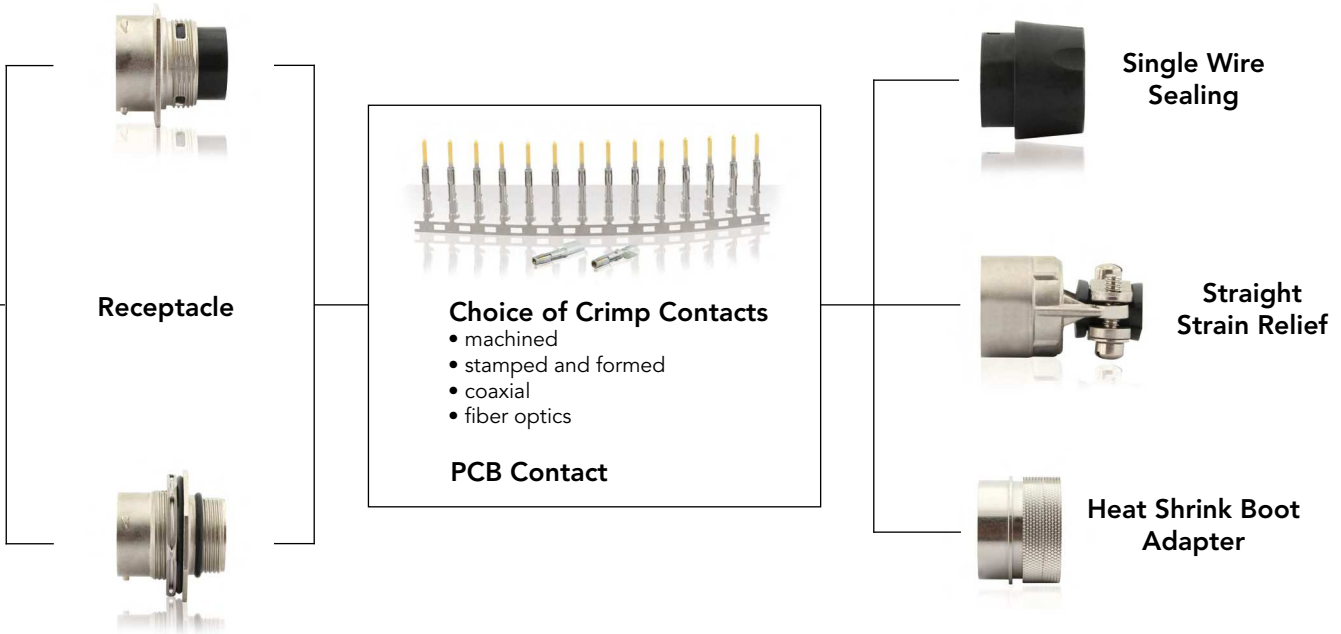
Plug

UTO Series

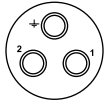
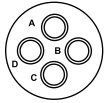
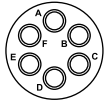
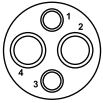
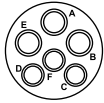
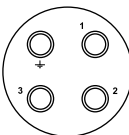
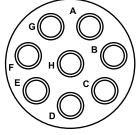
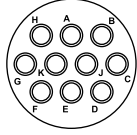
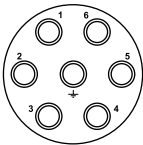
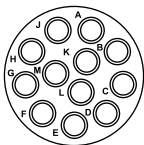
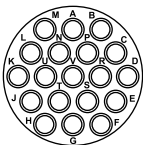
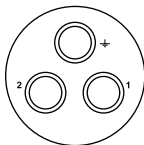
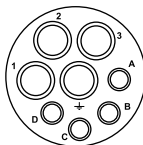
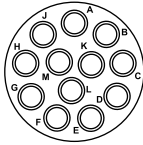
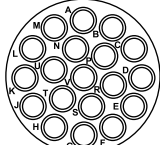
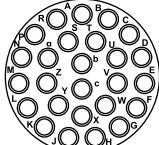


Sealed: IP68/69K  
Shielded  
Corrosion resistant  
UL compliant

Overview



**Layouts** (Electrical parameter according to IEC 61984 & IEC 61140)

Shell size	Contact #16 (Ø 1.6)	Contact #20 (Ø 1.0)	Contact #8 (Ø 3.6)	Mixed Power	
10	<p><b>103</b> 16A 150V 2 contacts +ground 3xØ1.6 (#16)</p>  <p>Page 20</p>	<p><b>104*</b> 13A 150V 4 contacts 4xØ1.6 (#16)</p>  <p>Page 36</p>	<p><b>106*</b> 7A 80V 6 contacts 6xØ1.0 (#20)</p>  <p>Page 44</p>	<p><b>102W2</b> 25A 200V 4 contacts 2xØ2.4 (#12) 2xØ1.0 (#20)</p>  <p>Page 32</p>	<p><b>103W3</b> 5A 40V 6 contacts 3xØ1.6 (#16) 3xØ1.0 (#20)</p>  <p>Page 40</p>
12	<p><b>124</b> 16A 150V 3 contacts +ground 4xØ1.6 (#16)</p>  <p>Page 28</p>	<p><b>128</b> 10A 125V 8 contacts 8xØ1.6 (#16)</p>  <p>Page 52</p>	<p><b>1210*</b> 6A 40V 10 contacts 10xØ1.0 (#20)</p>  <p>Page 60</p>		
14	<p><b>147</b> 16A 150V 6 contacts +ground 7xØ1.6 (#16)</p>  <p>Page 48</p>	<p><b>1412</b> 10A 150V 12 contacts 12xØ1.6 (#16)</p>  <p>Page 64</p>	<p><b>1419</b> 5A 40V 19 contacts 19xØ1.0 (#20)</p>  <p>Page 72</p>	<p><b>142G1</b> 40A 250V 2 contacts +ground 3xØ3.6 (#8)</p>  <p>Page 24</p>	<p><b>148</b> 17A 230V 8 contacts 4xØ2.4 (#12) 4xØ1.6 (#16)</p>  <p>Page 56</p>
	<p><b>1492</b> 10A 150V 12 contacts 12xØ1.6 (#16)</p>  <p>Page 68</p>				
16	<p><b>1619*</b> 9A 150V 19 contacts 19xØ1.6 (#16)</p>  <p>Page 76</p>	<p><b>1626</b> 4A 40V 26 contacts 26xØ1.0 (#20)</p>  <p>Page 84</p>			

\* Ethernet compatible see page 168 & 169

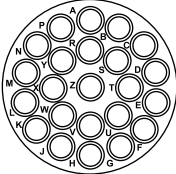
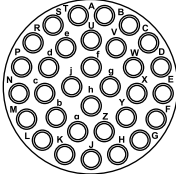
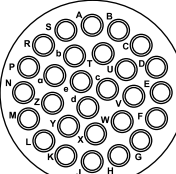
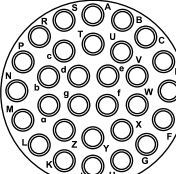
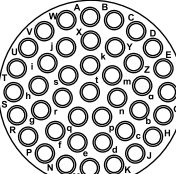
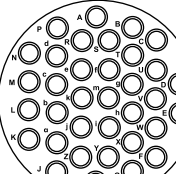
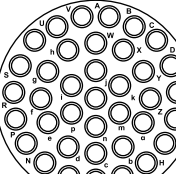
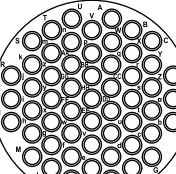
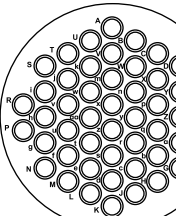
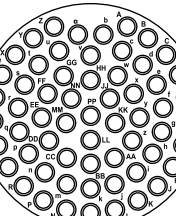
# UTO Series | Overview

Contacts #16:  
from AWG 30 to 14,  
0.05 to 2.5 mm<sup>2</sup>

Contacts #20:  
from AWG 26 to 18,  
0.13 to 0.93 mm<sup>2</sup>

Contacts #8:  
from AWG 16 to 8,  
1.5 to 10 mm<sup>2</sup>

Contacts #12:  
from AWG 22 to 12,  
0.13 to 4 mm<sup>2</sup>

Shell size	Contact #16 (Ø 1.6)	Contact #20 (Ø 1.0)
18	<p><b>1823</b> 8A 150V 23 contacts 23xØ1.6 (#16)</p>  <p>Page 80</p>	<p><b>1832</b> 4A 50V 32 contacts 32xØ1.0 (#20)</p>  <p>Page 96</p>
20	<p><b>2028</b> 7A 150V 28 contacts 28xØ1.6 (#16)</p>  <p>Page 88</p> <p><b>2030</b> 7A 150V 30 contacts 30xØ1.6 (#16)</p>  <p>Page 92</p>	<p><b>2041</b> 8A 80V 41 contacts 41xØ1.0 (#20)</p>  <p>Page 108</p>
22	<p><b>2235</b> 6A 150V 35 contacts 35xØ1.6 (#16)</p>  <p>Page 100</p> <p><b>2238</b> 6A 150V 38 contacts 38xØ1.6 (#16)</p>  <p>Page 104</p>	<p><b>2255</b> 3A 80V 55 contacts 55xØ1.0 (#20)</p>  <p>Page 116</p>
24	<p><b>2448</b> 6A 160V 48 contacts 48xØ1.6 (#16)</p>  <p>Page 112</p>	<p><b>2461</b> 3A 80V 61 contacts 61xØ1.0 (#20)</p>  <p>Page 120</p>

## General technical characteristics



### Materials

- **Shell:** Zinc alloy
- **Backshells and cable glands:** Brass
- **Coupling ring:** Aluminum alloy
- **Coupling spring:** Spring stainless steel
- **Insert:** Glass-filled thermoplast
- **Contacts:** See page 129
- **Halogen free**
- **RoHS compliant & conforms to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)**



### Environmental

- **Operating temperature:**  
from -40°C to +105°C  
40/100/21 per NFF 61-030
- **Flammability rating:**  
UL94 V-0  
I2F3 according to NFF 16101 and NFF 16102
- **Salt spray:**  
per MIL-STD-202 method 101  
- 48 h (standard version)  
- 96 h (black anodized coupling ring)  
Higher salt spray resistance (200/500 h) upon request
- **Sealing:**  
Per IEC 60529/DIN 40050: Dynamic IP67 / IP68 (under 10 m of water during 1 week) / IP69K in mated condition and in combination with sealed backshell.
- **Fluid resistance:**  
- Gas and oil  
- Mineral oil  
- Acid bath  
- Basic bath
- **Shielding effectiveness:**  
65 dB at 100 MHz

### Electrical



- **In accordance with:**  
- UL 1977: Certificate ECBT2  
File number: E169916  
- CSA C22.2: Certificate ECBT8  
File number E169916
- Also see pages 10 & 11

### Mechanical

- **Durability:**  
500 matings & unmatings per MIL-C-26482
- **Vibration resistance:**  
55-2000 Hz, acceleration 15 g per MIL-C-26482 (Series 1)  
10-100 Hz, acceleration 2 g per NFF61030
- **Thermal shock:**  
5 cycles 30 min. from -40°C to 105°C per MIL-STD-202 method 207
- **Mechanical shock:**  
50 g, 11 ms period per MIL-C-26482 (Series 1)  
30 g, 18 ms period per NFF61030



# UTO SERIES

## UTO Series

# Connector

■ Upgrade of the UTO Series .....				16
■ Cable Assembly .....				17
■ 2 contacts + ground				
103:	10A	500V.....		20
142G1:	44A	600V.....		24
■ 3 contacts + ground				
124:	16A	500V.....		28
■ 4 contacts				
102W2:	20A	500V.....		32
104*:	10A	500V.....		36
■ 6 contacts				
103W3:	5A	250V.....		40
106*:	5A	250V.....		44
■ 6 contacts + ground				
147:	10A	500V.....		48
■ 8 contacts				
128:	10A	500V.....		52
148:	25A	250V.....		56
■ 10 contacts				
1210*:	5A	250V.....		60
■ 12 contacts				
1412:	10A	500V.....		64
1492:	10A	500V.....		68
■ 19 contacts				
1419:	5A	250V.....		72
1619*:	9A	500V.....		76
■ 23 contacts				
1823:	8A	500V.....		80
■ 26 contacts				
1626:	4A	250V.....		84
■ 28 contacts				
2028:	5A	500V.....		88
■ 30 contacts				
2030:	5A	500V.....		92
■ 32 contacts				
1832:	4A	250V.....		96
■ 35 contacts				
2235:	5A	500V.....		100
■ 38 contacts				
2238:	5A	500V.....		104
■ 41 contacts				
2041:	3A	250V.....		108
■ 48 contacts				
2448:	5A	500V.....		112
■ 55 contacts				
2255:	3A	250V.....		116
■ 61 contacts				
2461:	3A	250V.....		120

Electrical parameters according to UL1977

\* Ethernet compatible see pages 164 & 165



## Upgrade of the UTO Series



### Description of change:

To better meet the demanding requirements and diversity of industrial markets/applications, SOURIAU changed the position of the wavy washer inside the plug. This slight modification makes the new version of the UTO sealed to IP68/69K in dynamic conditions.

### Product part number:

Below is an overview of the old part numbers with the corresponding new part numbers.

Note that some of the old part numbers where backshells were included will now be sold individually, i.e. plug connector + backshell.

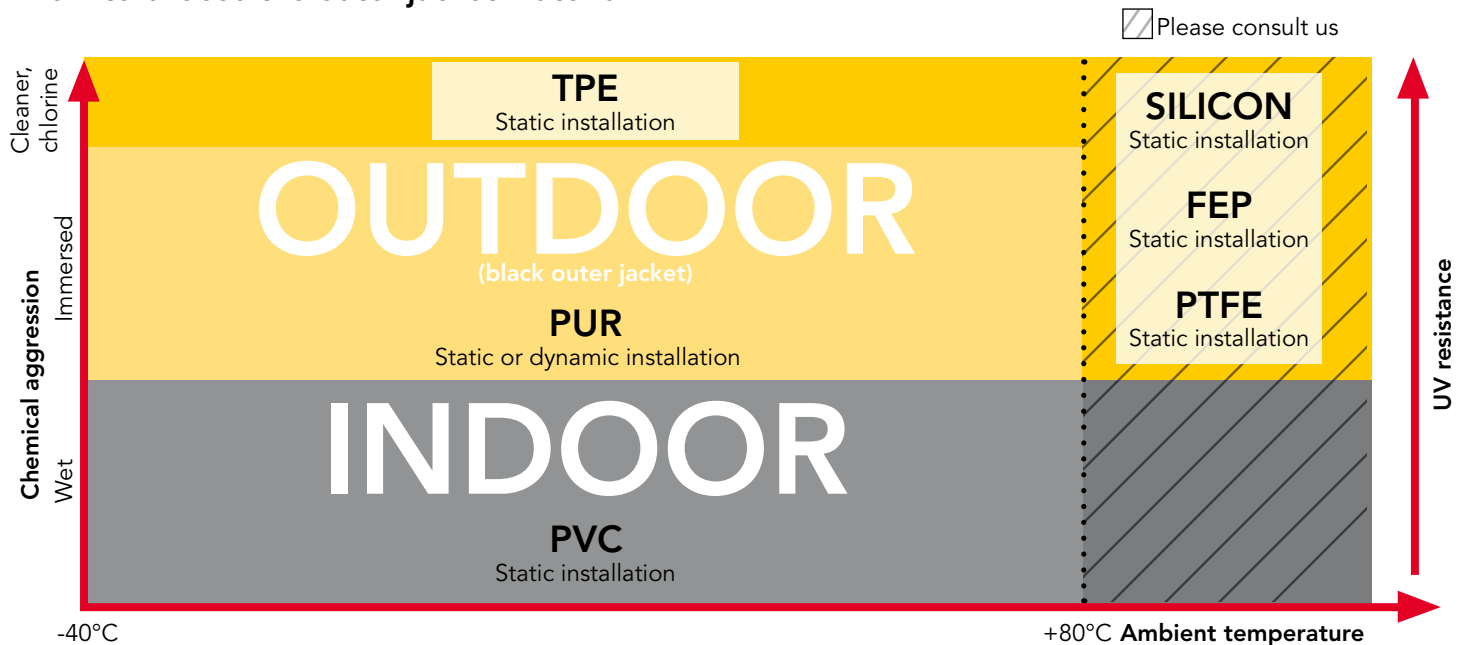
Old part number	New part number connector	New part number backshell	Comments
UT00/6-S/PT	<b>UT00/6-S/PH(6)</b>	-	-
UT00-S/PHT	<b>UT00-S/PH(6)</b>	-	-
UT00/6AC-S/PT	<b>UT00/6-S/PH(6)</b>	-	-
UT00/6PG-S/PHT	<b>UT00/6-S/PH(6)</b>	<b>UT0-AC</b>	-
UTO-21/22-	<b>Keep old part number</b>	<b>UT0-JC</b>	Silksreen version
UTO-44/45-	<b>Keep old part number</b>	-	Screw coupling version
UTO-ACT	-	<b>UT0-AC</b>	851 backshell Nickel plated
UTO-PGT	-	<b>UT0-JC</b>	Longer threading on connector side + metric cable gland
UTOS-PGT	-	<b>UT0S-JC</b>	Longer threading on connector side + shielded metric cable gland
U-AD01T	<b>UT0-AD01</b>	<b>UT0-AD01</b>	Longer threading to achieve sealing
U-AD01N	<b>Keep old part number</b>	-	Used on old UT06-45N screw coupling version

## Cable Assembly

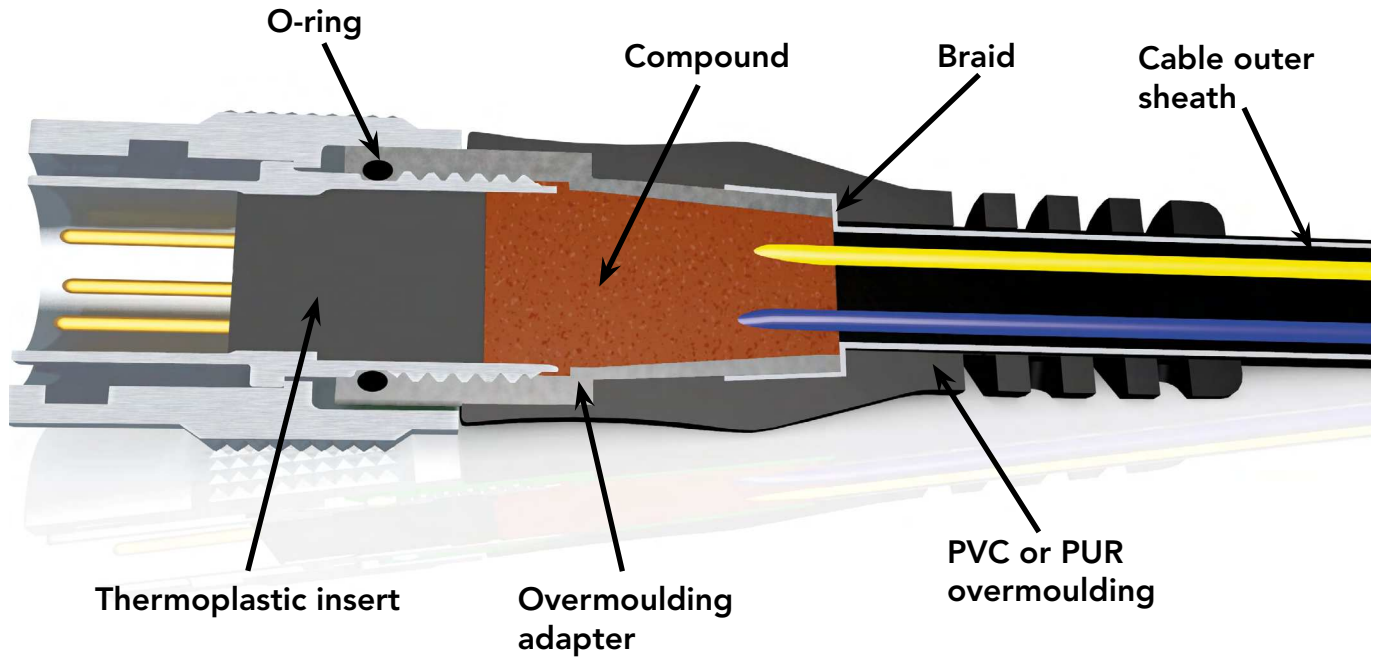
SOURIAU has provided connectors for various applications for more than 90 years and has been used in the most extreme environments. Conscious about the difficulty in finding a quick and reliable harness manufacturer, we began our own in-house cable assembly production. It allows customers to reduce the number of suppliers and to take advantage of the "best in class" quality of the SOURIAU group. Overmoulding is a process that further enhances the sealing properties and helps to minimize stress on the cable termination to the connector. In addition, the wires are encapsulated inside the molding which creates a barrier preventing liquid/moisture from entering the equipment through the connector or cable jacket if breached.



### How to choose the outer jacket material



### Overmoulding Description



#### Discrete connector

GOOD



#### Overmoulded connector

BEST



## UTO Robust Metal & Shielded Cable Assembly



### Description

**Connector**

- Shielded metal connector
- Extreme sealing: IP68/69K dynamic mated
- 26 layouts
- Rapid 1/3 turn connection

**Cable**

- TPE outer sheath (black)
- 300V
- Shielded
- Flammability rating UL 1581 Sec.1080 (VW-1)

**Applications**

- Machining Centers (Oil Resistant)
- Assembly Automation Equipment
- Geophysical Equipment
- Solar (UV Stable)
- Outdoor Displays

### Specifications

PLATING	SALT SPRAY	DEGREE	WATERPROOF	COUPLING
Black anodized*	96 H	-40° C up to 105° C	IP68/69K dynamic mated	500 matings/unmatings
Nickel	48 H			

\* Custom black anodized version available on demand

### Custom Capabilities



Harness with custom cable



Harness with double ends



Y or T shape connection

**103** (Shell size 10, 2 + ground, 3x#16)



**Connector Part Numbers**

Drilling pattern see page 176

Contact type	Connector type	Sealing	Salt spray	Part number	
				Male insert	Female insert
Contacts supplied separately see page 23	Square flange receptacle	IP67	96h	<b>UT00103PH</b>	<b>UT00103SH</b>
		IP68 & IP69K	96h	<b>UT00103PH6</b>	<b>UT00103SH6</b>
	Plug	IP67, IP68 & IP69K	48h	<b>UT06103PH</b>	<b>UT06103SH</b>
		IP67, IP68 & IP69K	96h	<b>UT06103PH02 (Black)</b>	<b>UT06103SH02 (Black)</b>
	Jam nut receptacle	IP67	48h	<b>UT07103PH</b>	<b>UT07103SH</b>
		IP68 & IP69K	48h	<b>UT07103PH6</b>	<b>UT07103SH6</b>
		IP67	96h	<b>UT07103PH01</b>	<b>UT07103SH01</b>
		IP68 & IP69K	96h	<b>UT07103PH601</b>	<b>UT07103SH601</b>

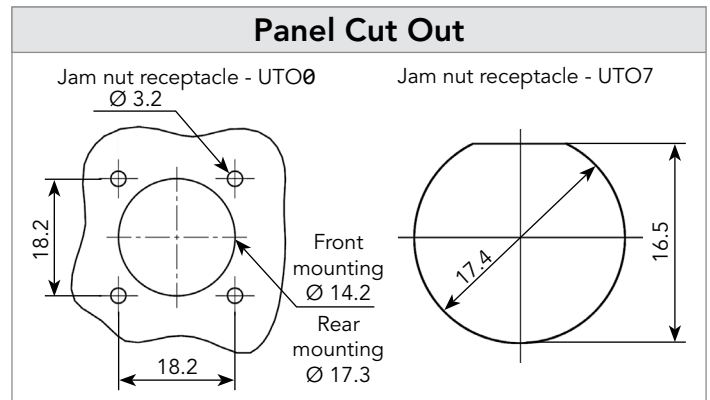
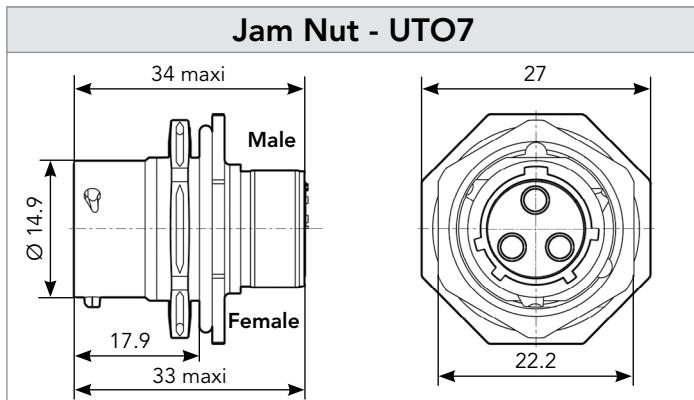
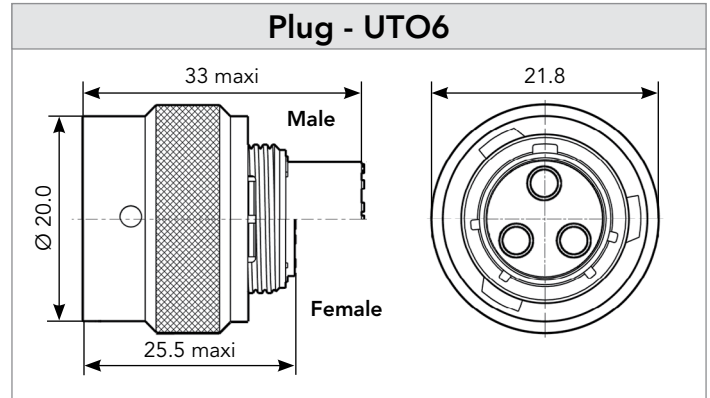
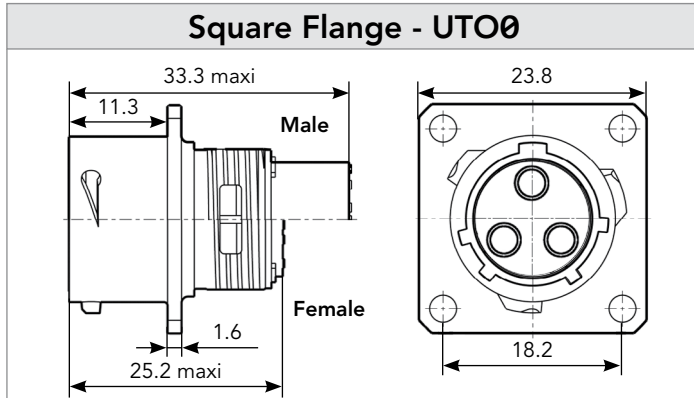
**Backshells**

Backshell type	Shielding	Cable range (Ø mm) min/max	Part number	
			Short version	Long version
Cable gland with strain relief nut for water protected applications (IP68 & IP69K) (Fig.1)	-	3/6	<b>UT010JCS</b>	<b>UT010JC</b>
Cable gland with large strain relief nut for water protected applications (IP68 & IP69K) (Fig.2)	-	5/8	<b>UT010JCSL</b>	<b>UT010JCL</b>
Shielded cable gland with strain relief nut for water protected applications (IP68 & IP69K) (Fig.3)	✓	4/6.5	<b>UT0S10JCS</b>	<b>UT0S10JC</b>
Shielded cable gland with large strain relief nut for water protected applications (IP68 & IP69K) (Fig.4)	✓	5/8.5	<b>UT0S10JCSL</b>	<b>UT0S10JCL</b>
Metal cable clamp with strain relief (Fig.5)	-	5	<b>UT010AC</b>	
Metal shrink boot adaptor (Fig.6)	-	-	<b>UT010AD</b>	
Metal right angle cable clamp with strain relief nut (Fig.7)	-	4/10	<b>UT010LPGN</b>	
Shielded cable clamp with plastic strain relief nut (Fig.8)	✓	4/8.8	<b>UT0S10JCPGN</b>	
Cable clamp with plastic strain relief nut (Fig.8)	-	4/10	<b>UT010JCPGN</b>	

103 (Shell size 10, 2 + ground, 3x#16)



Dimensions



Backshells (for Mated Connector Length: See Page 153)

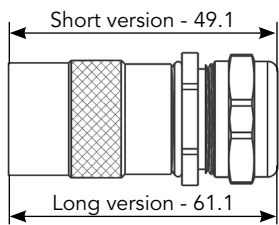


Fig. 1

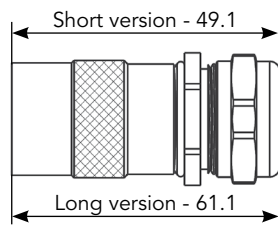


Fig. 2

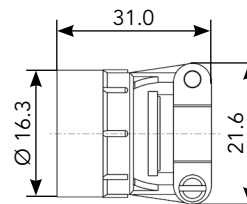


Fig. 5

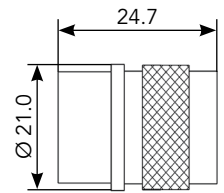


Fig. 6

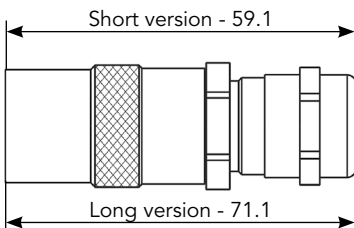


Fig. 3

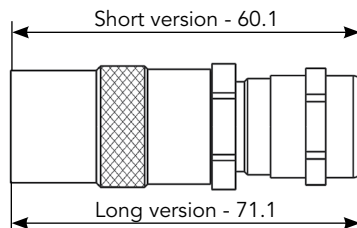


Fig. 4

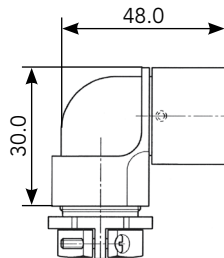


Fig. 7

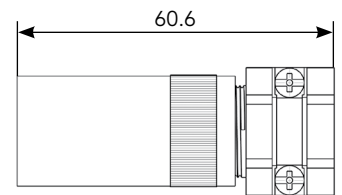


Fig. 8

Note: all dimensions are in mm

# 103 (Shell size 10, 2 + ground, 3x#16)

## Accessories and Tooling

**Dustcap (Receptacle)**



Part number  
**UT010DCG\***

**Dustcap (Plug)**




Part number  
**UTG610DCG\***

**Handle (without Head)**




Part number  
**SHANDLES**

**Tool Kit**



Part number  
**TOOLKIT**

**Gasket**



Part number / Neoprene  
**UTFD12B**

**Dummy Contact #16**



Part number / Polyamide 6.6  
**SMSPK00**

See page 180 for more information

**Extraction Tool #16**



Part number  
**RX2025GE1**

**Crimp Tooling (without Shandles)**



Contacts	Contact size	Part number of head	
RM/RC 28M1K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	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>		S16RCM16*	
RM/RC 14M30K <sup>(1)</sup>		S16RCM14*	
SM/SC 24ML1TK6 <sup>(1)</sup>		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		Coaxial contacts	M10S1J with die set & stop bushing see page 173 to 174
RCDXK1D28K			
RM/RC DX60xxD28K			
RM/RC DXK10D28 + york090			
RM/RC DX60xxD28			

(1): Example of plating, for other plating options see page 129  
\* Heads to be used with handle PN: SHANDLES



\* For dustcap without chain, skip "G", e.g. UT010DC

103 (Shell size 10, 2 + ground, 3x#16)



Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K <sup>(1)</sup>	RC28M1K <sup>(1)</sup>	0.55	1.00
		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
		20-16	RM16M23K <sup>(1)</sup>	RC16M23K <sup>(1)</sup>	1.80	3.20
		16-14	RM14M30K <sup>(1)</sup>	RC14M30K <sup>(1)</sup>	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 <sup>(1)(2)</sup>	SC24M1TK6 <sup>(1)(2)</sup>	-	0.90-1.60
		22-20	SM20M1TK6 <sup>(1)(2)</sup>	SC20M1TK6 <sup>(1)(2)</sup>	-	1.20-2.10
		18-16	SM16M1TK6 <sup>(1)(2)</sup>	SC16M1TK6 <sup>(1)(2)</sup>	-	3.20
		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	
PCB	Machined <sup>(3)</sup>	-	RM20M12E8K <sup>(1)</sup>	RC20M12E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	see pages 131, 168 to 174	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-

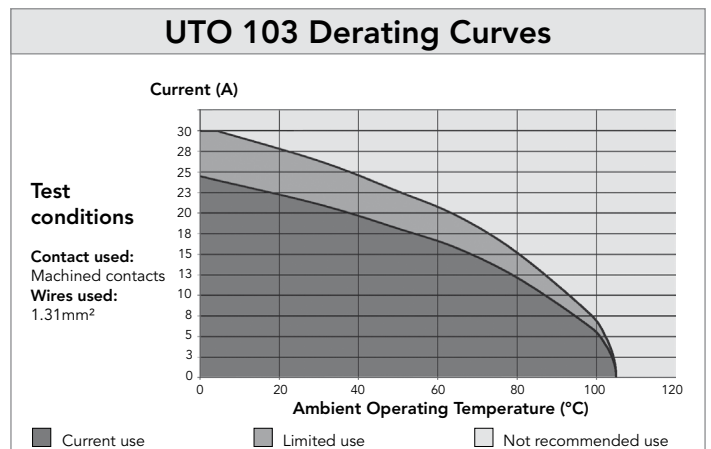
(1): Example of plating, for other plating options see page 129

(2): For loose piece contact packaging, place "L" in part number. Example: SM20ML1TK6

(3): For dimensions see page 132

Note: all dimensions are in mm

Electrical Characteristics
<p><b>UL</b> 10A 500V UL94 V-0</p> <p><b>CSA</b> 7A 500V UL94 V-0</p> <p><b>IEC</b> 16A 150V 2.5kV 3</p>





### 142G1 (Shell size 14, 2 + ground, 3x#8)



### Connector Part Numbers

Drilling pattern see page 176

Contact type	Connector type	Sealing	Salt spray	Part number	
				Male insert	Female insert
Contacts supplied separately see page 27	Square flange receptacle	IP67	96h	<b>UT00142G1PH</b>	<b>UT00142G1SH</b>
		IP68 & IP69K	96h	<b>UT00142G1PH6</b>	<b>UT00142G1SH6</b>
	Plug	IP67, IP68 & IP69K	48h	<b>UT06142G1PH</b>	<b>UT06142G1SH</b>
		IP67, IP68 & IP69K	96h	<b>UT06142G1PH02 (Black)</b>	<b>UT06142G1SH02 (Black)</b>
	Jam nut receptacle	IP67	48h	<b>UT07142G1PH</b>	<b>UT07142G1SH</b>
		IP68 & IP69K	48h	<b>UT07142G1PH6</b>	<b>UT07142G1SH6</b>
		IP67	96h	<b>UT07142G1PH01</b>	<b>UT07142G1SH01</b>
		IP68 & IP69K	96h	<b>UT07142G1PH601</b>	<b>UT07142G1SH601</b>

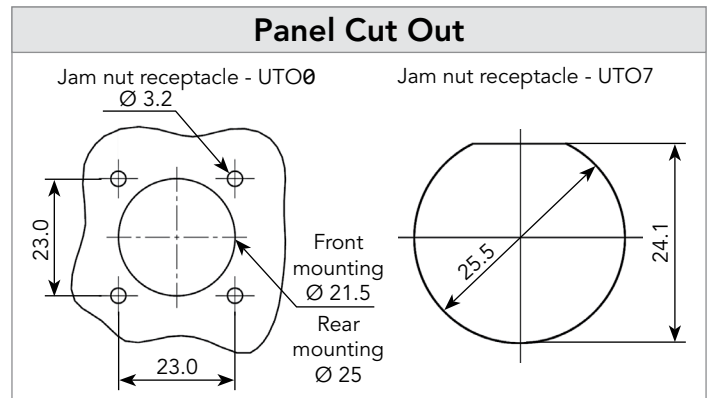
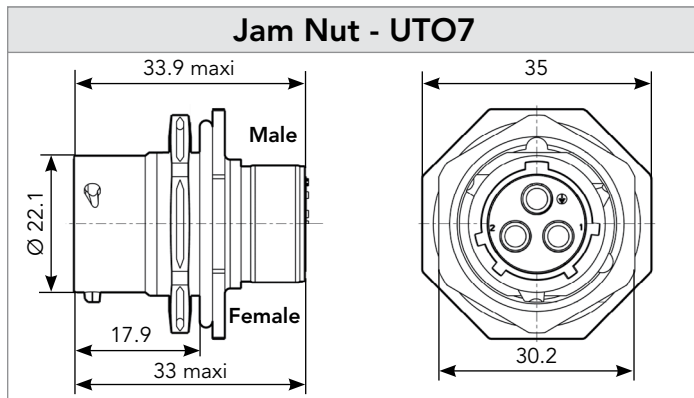
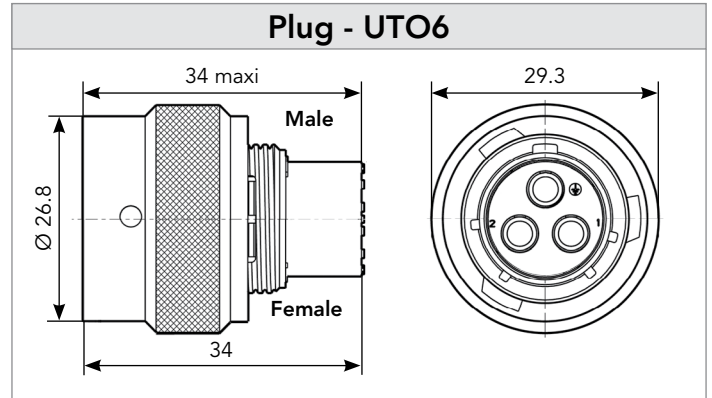
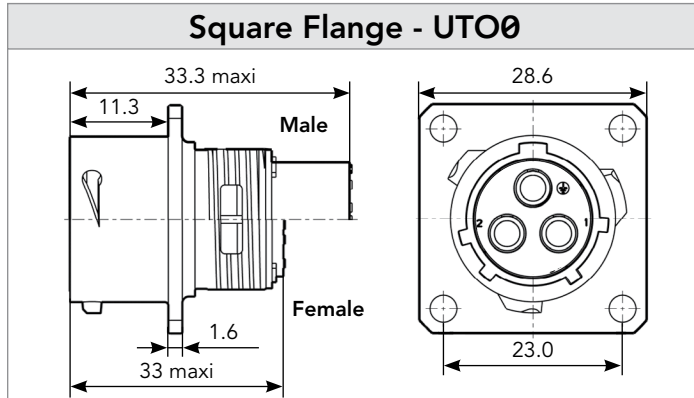
### Backshells

Backshell type	Shielding	Cable range (Ø mm) min/max	Part number	
			Short version	Long version
Cable gland with strain relief nut for water protected applications (IP68 & IP69K) (Fig.1)	-	06/10	<b>UT014JCS</b>	<b>UT014JC</b>
Cable gland with large strain relief nut for water protected applications (IP68 & IP69K) (Fig.2)	-	08/12	<b>UT014JCSL</b>	<b>UT014JCL</b>
Shielded cable gland with strain relief nut for water protected applications (IP68 & IP69K) (Fig.3)	✓	07/10.5	<b>UT0S14JCS</b>	<b>UT0S14JC</b>
Shielded cable gland with large strain relief nut for water protected applications (IP68 & IP69K) (Fig.4)	✓	08/12.5	<b>UT0S14JCSL</b>	<b>UT0S14JCL</b>
Metal cable clamp with strain relief (Fig.5)	-	10	<b>UT014AC</b>	
Metal shrink boot adaptor (Fig.6)	-	-	<b>UT014AD</b>	
Metal right angle cable clamp with strain relief nut (Fig.7)	-	6.5/14	<b>UT014LPGN</b>	
Shielded cable clamp with plastic strain relief nut (Fig.8)	✓	6.5/13.5	<b>UT0S14JCPGN</b>	
Cable clamp with plastic strain relief nut (Fig.8)	-	6.5/13.5	<b>UT014JCPGN</b>	

142G1 (Shell size 14, 2 + ground, 3x#8)

2 +  
⊕

Dimensions



Backshells (for Mated Connector Length: See Page 153)

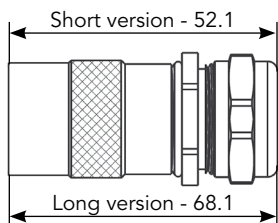


Fig. 1

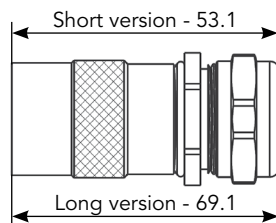


Fig. 2

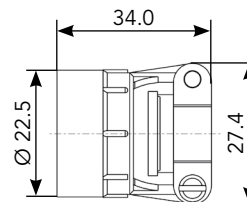


Fig. 5

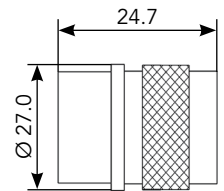


Fig. 6

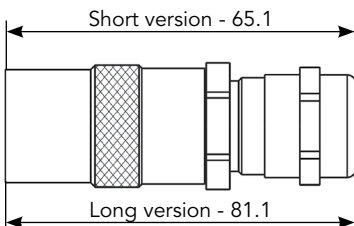


Fig. 3

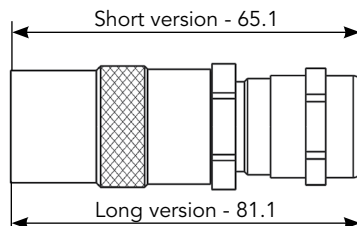


Fig. 4

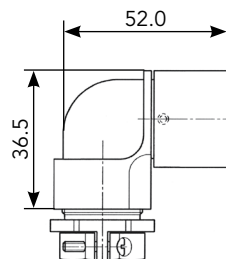


Fig. 7

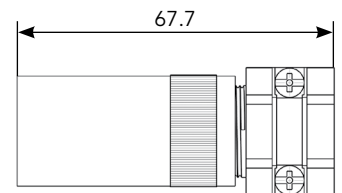


Fig. 8

Note: all dimensions are in mm