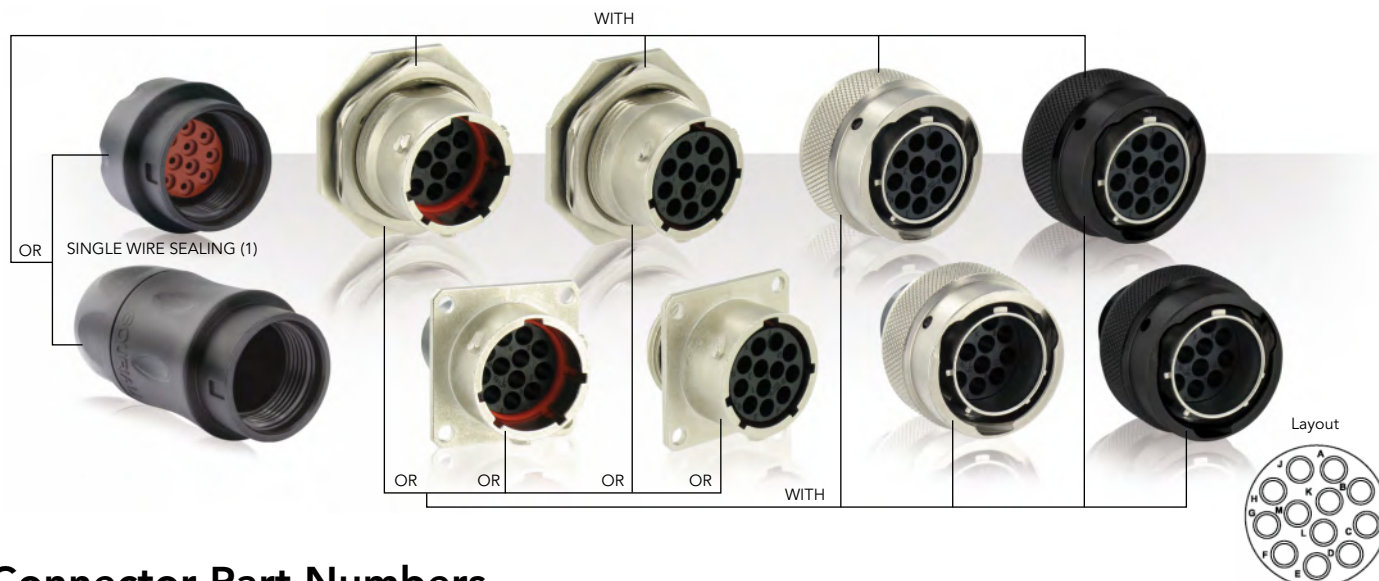


# UTO Series Connector

## 1412 (Shell size 14, 12x#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 67 | Square flange receptacle | IP67               | 96h        | <b>UT001412PH</b>                         | <b>UT001412SH</b>                         |
|                                          |                          | IP68 & IP69K       | 96h        | <b>UT001412PH6</b>                        | <b>UT001412SH6</b>                        |
|                                          | Plug                     | IP67, IP68 & IP69K | 48h        | <b>UT061412PH<sup>(1)</sup></b>           | <b>UT061412SH<sup>(1)</sup></b>           |
|                                          |                          | IP67, IP68 & IP69K | 96h        | <b>UT061412PH02<sup>(1)</sup> (Black)</b> | <b>UT061412SH02<sup>(1)</sup> (Black)</b> |
|                                          | Jam nut receptacle       | IP67               | 48h        | <b>UT071412PH<sup>(1)</sup></b>           | <b>UT071412SH<sup>(1)</sup></b>           |
|                                          |                          | IP68 & IP69K       | 48h        | <b>UT071412PH6<sup>(1)</sup></b>          | <b>UT071412SH6<sup>(1)</sup></b>          |
|                                          |                          | IP67               | 96h        | <b>UT071412PH01<sup>(1)</sup></b>         | <b>UT071412SH01<sup>(1)</sup></b>         |
|                                          |                          | IP68 & IP69K       | 96h        | <b>UT071412PH601<sup>(1)</sup></b>        | <b>UT071412SH601<sup>(1)</sup></b>        |

\* Other discrimination keying option, see page 180

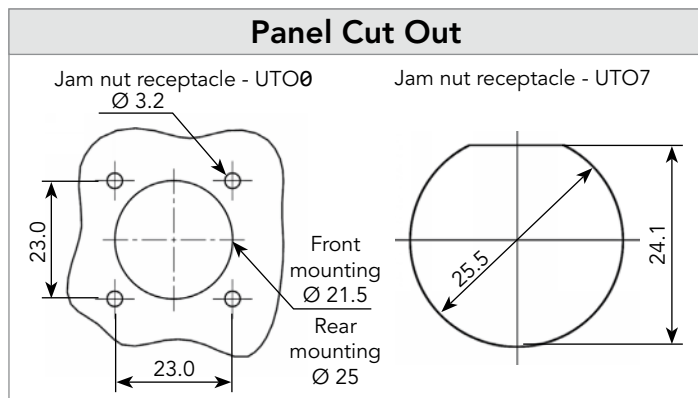
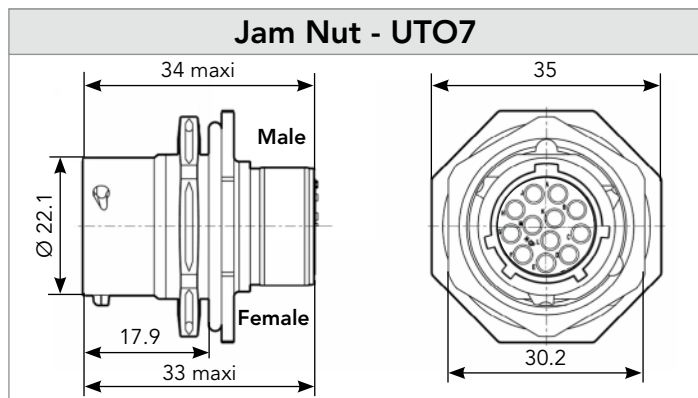
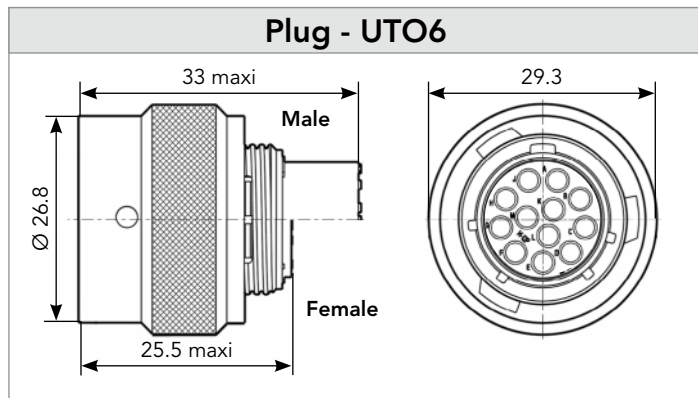
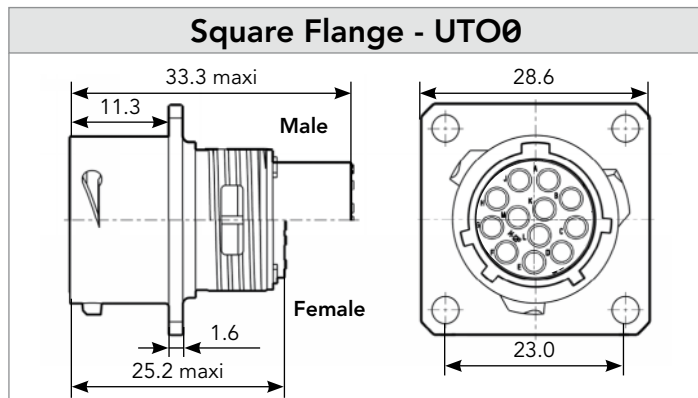
(1): For single wire sealing solution please add GN or GJC after UT06 or UT07. Eg UT07GN1412PH

## Backshells

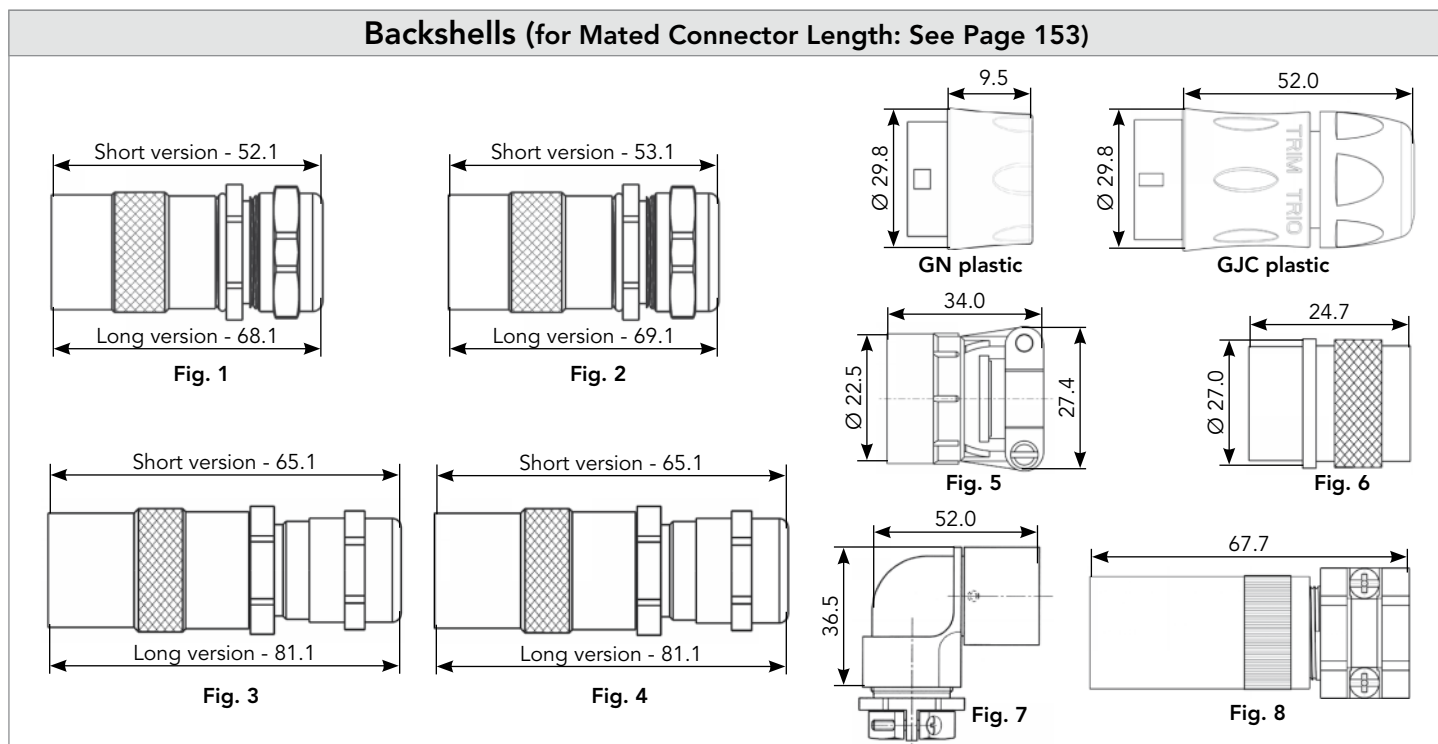
| Backshell type                                                                                            | Shielding | Cable range (Ø mm) min/max | Part number        |                  |
|-----------------------------------------------------------------------------------------------------------|-----------|----------------------------|--------------------|------------------|
|                                                                                                           |           |                            | 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>  |                  |

# 1412 (Shell size 14, 12x#16)

## Dimensions



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Note: all dimensions are in mm

**1412** (Shell size 14, 12x#16)

## Accessories and Tooling

**Dustcap (Receptacle)**



Part number  
**UT014DCG\***

**Dustcap (Plug)**



Part number  
**UTG614DCG\***

**Handle (without Head)**



Part number  
**SHANGLES**

**Tool Kit**



Part number  
**TOOLKIT**

**Gasket**



Part number / Neoprene  
**UTFD14B**

**Dummy Contact #16**



Part number / Polyamide 6.6  
**SMSPKE0**

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<br>#16<br>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<br>with die set &<br>stop bushing<br>see page<br>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: SHANGLES

\* For dustcap without chain, skip "G", e.g. UT014DC



# 1412 (Shell size 14, 12x#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<br>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<br>131,<br>168 to 174 | RMDXK10D28                   | RCDXK1D28                    | -          | -               |
|         | Cable Monocrimp                                                  |                                 | RMDX60xxD28                  | RCDX60xxD28                  | -          | -               |
|         | Twisted pair Multipiece                                          |                                 | RMDXK10D28 +<br>york090      | RCDXK1D28 +<br>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

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## Electrical Characteristics

**UL**  
10A 500V UL94 V-0

**CSA**  
7A 500V UL94 V-0

**IEC**  
10A 150V 2.5kV 3

## UTO 1412 Derating Curves

