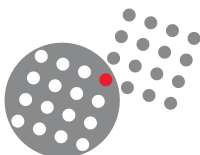


# UTS Series

Dynamic IP68/69K • UV Resistant • UL/IEC Compliant



**SOURIAU**







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UTS Series

UTS Series

# Overview

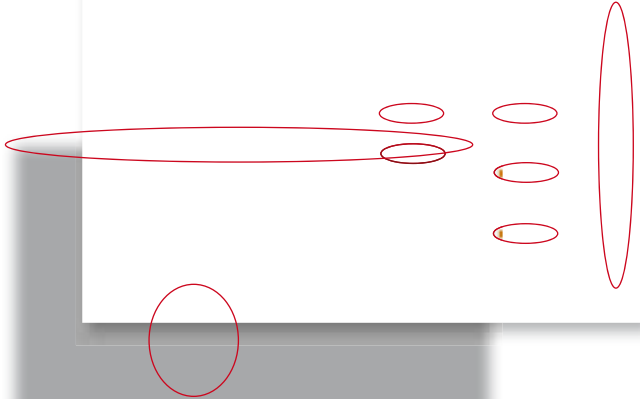
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**SOURIAU is pleased to announce the arrival of a brand new catalog containing some significant improvements to simplify the connector selection process and provide easy access to key information. In this version you can see all layouts at a glance, download 2D drawings and 3D models. Then, when your choice is made, you can click on the part number and buy online.**

### Step 1

**Interactive zones.**



### Step 2

**Clearer understanding of the range.**



### Step 3

**Easy access to supporting material such as prints and CAD models. In just two pages you can gather together details of all accessories, contacts, tools etc required for your application.**





## UTS range overview

**The UTS series is a plastic connector range but rugged enough to withstand industrial applications.**

The bayonet coupling system makes it simple to use. With only a 1/3 twist of the coupling ring, connectors are mated with an audible and sensitive "click".

**UTS series is a wide range...**

Based on multiple power & signal connectors and offers everything from box mounted receptacles and cable mounted plugs to cable mounted in-line and PCB mounted receptacles. Almost all ways to accommodate wires exist: Crimp, Solder, Screw termination.

Screw termination version

**The philosophy of the UTS series is built around three key elements:**

### Dynamic IP68/69K



UTS series is rated at IP68/69K... even in dynamic conditions. This means that it remain sealed even when used continuously underwater or cleaned using a high pressure hose and cable is moving.

This extreme level of performance is achievable with jacketed cable or discrete wires.

If this same level of performance is required even when connectors are not mated, we have UTS Hi Seal; a product designed to remain watertight if an environmental cap is not fitted or if the equipment is likely to get wet when cables have been disconnected.

### UV Resistant



In most applications, our connectors are exposed to extreme climatic conditions; it was therefore key for us to select the materials best able to cope with the targeted environment.

Part of our product qualification process involved subjecting connectors to a simulated five years of exposure to various elements including Temperature, UV and Humidity.

The results were positive in that there were no visible signs of weakness, such as cracking or crazing.

### UL/IEC Compliant



The outmost priority for any electrical installation is to protect personnel from any shock hazard.

In North America, Underwriters Laboratories insisted that connector manufacturers, depending of the application, respect their standards. The UTS series had thus been qualified and is certified by this organisation.

In Europe and in Asia, IEC standards are better known and trusted by end users. Like its American equivalent, the IEC refers to safety rules. The UTS series was obviously designed to respect these rules.



# UTS Series Overview



## UTS range

### UTS discrete wire sealing

See page 9

### UTS Series

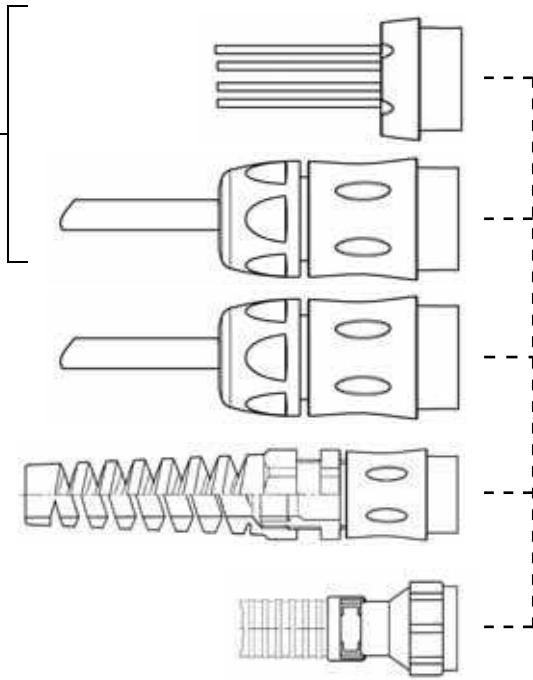
Sealed: IP68/69K  
UV resistant  
UL/IEC compliant

Corrosion-proof  
Plastic housing

### UTS screw termination

Just screw the wires to the connector !

No special tools required, use a standard screwdriver



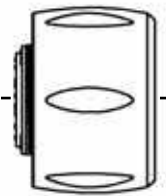
### Crimp contact

- machined
- stamped and formed
- coaxial
- fibre optics

### Screw termination contact



### Solder contact



### Plug

### UTS Hi seal

### Sealed Unmated

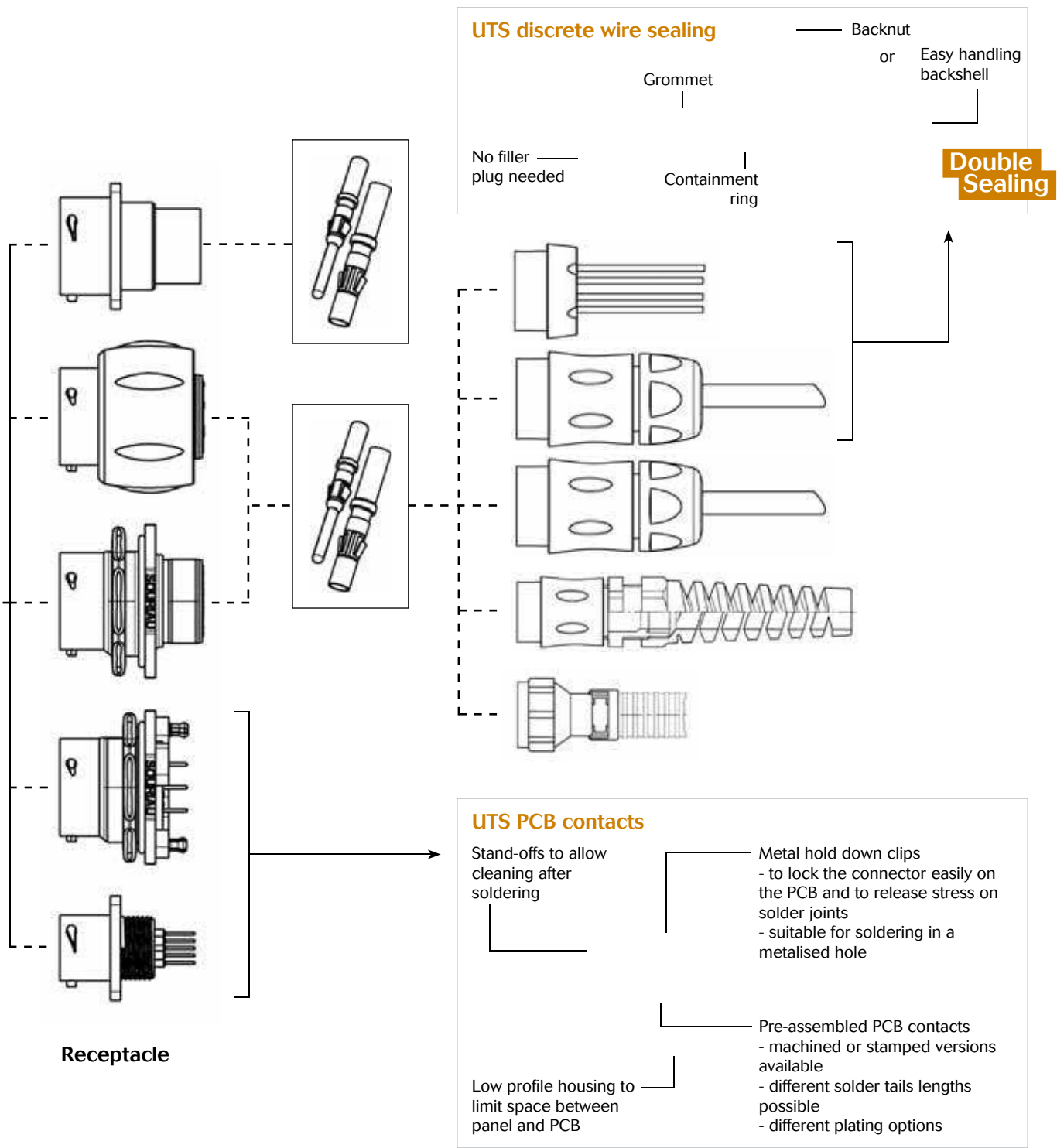
Sealed unmated: IP68/69K  
MIL-C-26482 compatible  
UV resistant  
UL/IEC compliant

Corrosion-proof  
Plastic housing

# UTS Series Overview



## overview





#### Mechanical

- Durability:  
250 matings & unmatings per MIL-C-26482
- 1 • Vibration resistance (all UTS versions except UTS Screw termination contacts):  
Sinusoidal vibrations per CEI 60512-4 - from 10 to 2000 Hz
- Thermal shock:  
5 cycles 30 min. from -40°C to 105°C per MIL-STD1344 method 1003

#### Environmental

- 2 • Operating temperature:  
from -40°C to +105°C  
40/100/21 per NFF 61-030
- Flammability rating:  
UL94-V0 (all UTS except the Hi seal) - see page 165  
UL94-HB (UTS Hi seal only) - see page 165  
I2F3 according to NFF 16101 and NFF 16102
- 3 • Salt spray:  
≥500 hours
- 4 • UV resistant:  
No mechanical degradation or important variation of colour after 5 years of exposure in natural environment (equivalence exposure to sun and moisture as per ISO4892)
- 5 • Sealing:
  - UTS Standard: IP68/IP69K (mated)
  - UTS Hi seal: IP68/IP69K (mated and unmated)
  - UTS Discrete wire sealing: IP67/69K (up to IP68 with easy handling backshell)
  - UTS Screw termination contacts: IP68/IP69KNote: IPx8: 10m underwater during 1 week
- Fluid resistance:
  - Gasoil
  - Mineral oil
  - Acid bath
  - Basic bath

1

3



## characteristics

### Electrical

- See each layout page

### Material

- Body connector + Backshell:  
Thermoplastic
- Insert:
  - UTS Standard, UTS Discrete wire sealing, UTS Screw termination contacts:  
Thermoplastic
  - UTS Hi seal handsolder & UTS Hi seal with PC tails contacts:  
Elastomer
- Contacts:  
See page 140
- Nut:  
Metal
- Halogen free
- RoHS compliant & conform to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)
- In accordance with:
  - UL 1977:  
Certificat ECBT2  
File number: E169916
  - CSA C22.2 n°182.3:  
Certificat ECBT8  
File number: E169916





UTS Series

# Mechanics

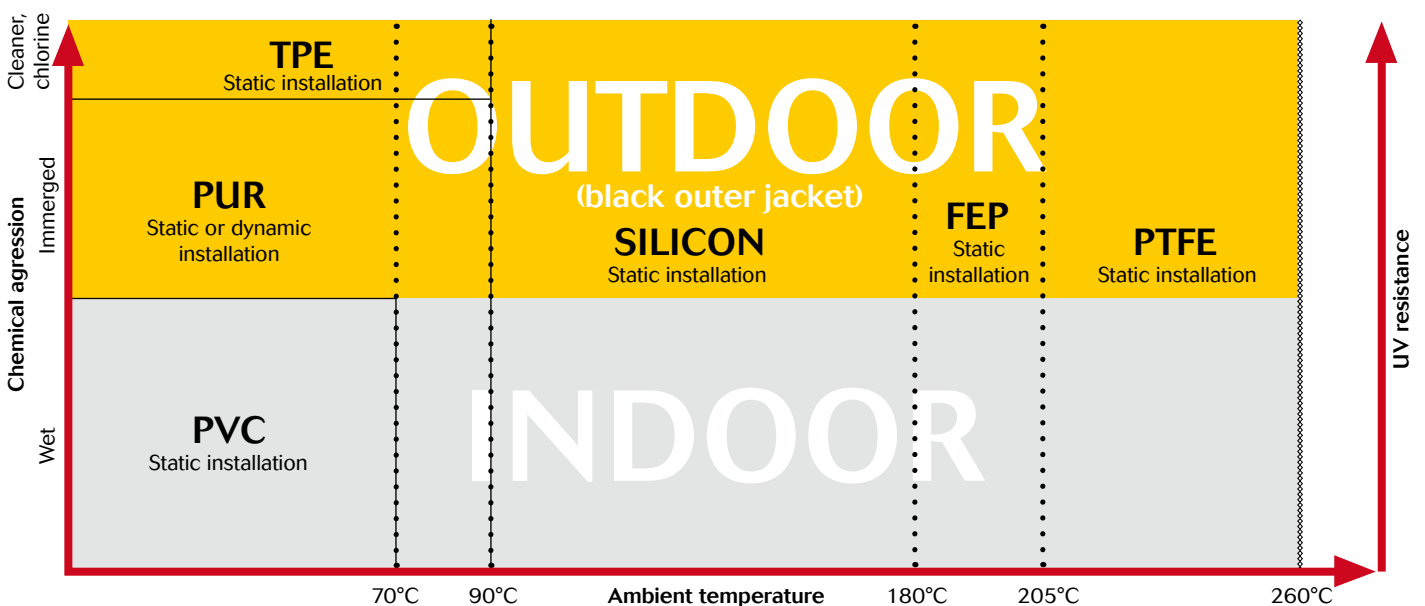
<b>Cable assembly</b>				14
<b>2 contacts</b>				
8E2/8D2:	7A	32V		20
12E2/12D2:	16A	150V		24
<b>2 contacts + ground</b>				
103:	16A	300V		28
142G1:	40A	300V		32
<b>3 contacts</b>				
8E3/8D3:	7A	32V		36
8E3A/8E98				
8D3A/8D98:	7A	50V		40
8E33/8D3.:	7A	50V		44
12E3/12D3:	16A	150V		48
<b>3 contacts + ground</b>				
124 - 12E4/12D4:	16A	300V		52
183G1:	32A	300V		56
<b>4 contacts</b>				
8E4/8D4:	7A	32V		60
102W2:	25A	150V		64
104:	13A	150V		68
<b>5 contacts</b>				
14E5/14D5:	16A	150V		72
<b>6 contacts</b>				
103W3:	5A	32V		76
106 - 10E6/10D6:	7A	32V		80
10E98/10D98:	7A	50V		84
<b>6 contacts + ground</b>				
147 - 14E7:	16A	300V		88
<b>7 contacts</b>				
10E7/10D7:	7A	50V		92
<b>8 contacts</b>				
128:	10A	80V		96
12E8/12D8:	6A	32V		100
<b>10 contacts</b>				
1210 - 12E10/12D10:	6A	50V		104
<b>12 contacts</b>				
1412:	10A	63V		108
14E12/14D12:	4A	50V		112
<b>14 contacts</b>				
12E14/12D14:	5A	32V		116
<b>15 contacts</b>				
14E15/14D15:	4A	50V		120
<b>18 contacts</b>				
14E18/14D18:	5A	50V		124
<b>19 contacts</b>				
1419 - 14E19/14D19:	5A	32V		128
<b>23 contacts</b>				
1823:	9A	63V		132
<b>32 contacts</b>				
1832:	4A	32V		136



### Cable assembly

Souriau provides connectors in various applications for more than 90 years in the most extreme environment. Being conscious about the difficulty to find a quick and a reliable harness manufacturer, we decided years ago to start 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 of the UTS range, especially over many years of use. Overmoulding provides the opportunity to change the cable exit from straight through 90 degrees and avoid any stress on the cable terminated to the connector. Also, as the wires are encapsulated inside the moulding, a barrier is created which prevents from any liquid from entering the equipment through the connector if the cable jacket is breached.

### How to choose the outer jacket material





Overmolding description

Thermoplastic insert

Compound

O ring

Overmolding adapter

PVC or PUR overmolding

Discrete connector



If cable jacket is breached...

...water ingress unhampered, leading to damage.

Overmoulded connector



If cable jacket is breached...

...prevents water ingress via capillary action.





### Harnesses

#### Overmoulded harnesses, straight ending

Connector type	Number of ways	Voltage	Current UL	Current IEC	Harmonised cable part number*	Part number (length: 1 m.)	
						Male	Female
UTS standard	2+PE	600 V	44 A	40 A	HO5 VV - F 3Gg10	HAUTSOV142G1PST100	HAUTSOV142G1SST100
	2+PE	500 V	10 A	16 A	HO5 VV - F 3x1.5	HAUTSOV103PST100	HAUTSOV103SST100
	3+PE	500 V	10 A	16 A	HO5 VV - F 3G1.5	HAUTSOV103PEPST100	HAUTSOV103PESST100
	3+PE	250 V	24 A	32 A	HO5 VV - F 40G0.5	HAUTSOV183G1PST100	HAUTSOV183G1SST100
	3+PE	500 V	10 A	16 A	HO5 VV - F 4G1.5	HAUTSOV124PEPST100	HAUTSOV124PESST100
	4	500 V	10 A	13 A	HO5 VV - F 4x1.5	HAUTSOV104PST100	HAUTSOV104SST100
	3	500 V	10 A	5 A	HO5 VV - F 7G0.5	HAUTSOV103V8PST100	HAUTSOV103V8SST100
	6	250 V	5 A	7 A	HO5 VV - F 7x0.5	HAUTSOV106PST100	HAUTSOV106SST100
	6+PE	500 V	10 A	16 A	HO5 VV - F 7G1.5	HAUTSOV147PEPST100	HAUTSOV147PESST100
	8	500 V	10 A	10 A	HO5 VV - F 8x1.5	HAUTSOV128PST100	HAUTSOV128SST100
	10	250 V	5 A	6 A	HO5 VV - F 10G0.5	HAUTSOV1210PST100	HAUTSOV1210SST100
	12	500 V	10 A	10 A	HO5 VV - F 12x1.5	HAUTSOV1412PST100	HAUTSOV1412SST100
	19	250 V	5 A	5 A	HO5 VV - F 21G0.5	HAUTSOV1419PST100	HAUTSOV1419SST100
	23	500 V	10 A	9 A	HO5 VV - F 25G1.5	HAUTSOV1823PST100	HAUTSOV1823SST100
32	250 V	5 A	4 A	HO5 VV - F 40G0.5	HAUTSOV1832PST100	HAUTSOV1832SST100	
UTS Hi seal	2	250 V	7 A	7 A	HO5 VV - F 2x0.5	HAUTSOV8E2PST100	HAUTSOV8E2SST100
	2	650 V	13 A	16 A	HO5 VV - F 2x1.5	HAUTSOV12E2PST100	HAUTSOV12E2SST100
	3	250 V	7 A	7 A	HO5 VV - F 3x0.5	HAUTSOV8E3PST100	HAUTSOV8E3SST100
	3	250 V	7 A	7 A	HO5 VV - F 3x0.5	HAUTSOV8E3APST100	HAUTSOV8E3ASST100
	3	250 V	7 A	7 A	HO5 VV - F 3x0.5	HAUTSOV8E33PST100	HAUTSOV8E33SST100
	3	650 V	13 A	16 A	HO5 VV - F 3x1.5	HAUTSOV12E3PST100	HAUTSOV12E3SST100
	4	250 V	7 A	7 A	HO5 VV - F 4x0.5	HAUTSOV8E4PST100	HAUTSOV8E4SST100
	5	650 V	12 A	16 A	HO5 VV - F 4G1.5	HAUTSOV14E5PST100	HAUTSOV14E5SST100
	6	250 V	5 A	7 A	HO5 VV - F 7x0.5	HAUTSOV10E6PST100	HAUTSOV10E6SST100
	6	250 V	6 A	7 A	HO5 VV - F 7x0.5	HAUTSOV10E98PST100	HAUTSOV10E98SST100
	6+PE	500 V	10 A	16 A	HO5 VV - F 7G1.5	HAUTSOV14E7PEPST100	HAUTSOV14E7PESST100
	7	250 V	6 A	7 A	HO5 VV - F 7x0.5	HAUTSOV10E7PST100	HAUTSOV10E7SST100
	8	250 V	5 A	6 A	HO5 VV - F 10G0.5	HAUTSOV12E8PST100	HAUTSOV12E8SST100
	10	250 V	5 A	6 A	HO5 VV - F 10G0.5	HAUTSOV12E10PST100	HAUTSOV12E10SST100
	12	250 V	5 A	4 A	HO5 VV - F 12G0.5	HAUTSOV14E12PST100	HAUTSOV14E12SST100
	14	250 V	5 A	5 A	HO5 VV - F 14G0.5	HAUTSOV12E14PST100	HAUTSOV12E14SST100
	15	650 V	12 A	4 A	HO5 VV - F 18G0.5	HAUTSOV14E15PST100	HAUTSOV14E15SST100
	18	250 V	4 A	4 A	HO5 VV - F 18G0.5	HAUTSOV14E18PST100	HAUTSOV14E18SST100
19	250 V	4 A	5 A	HO5 VV - F 40G0.5	HAUTSOV14E19PST100	HAUTSOV14E19SST100	

\* see page 18

3 m & 5 m version available on demand

Eg: 3m HAUTSOV. . . 300

5m HAUTSOV. . . 500



### Harnesses

#### Overmoulded harnesses, right angle ending

Connector type	Number of ways	Voltage	Current UL	Current IEC	Harmonised cable part number*	Part number (length: 1 m.)	
						Male	Female
UTS standard	2+PE	600 V	44 A	40 A	HO5 VV - F 3Gg10	HAUTSOV142G1PRA100	HAUTSOV142G1SRA100
	2+PE	500 V	10 A	16 A	HO5 VV - F 3x1.5	HAUTSOV103PRA100	HAUTSOV103SRA100
	3+PE	500 V	10 A	16 A	HO5 VV - F 3G1.5	HAUTSOV183G1PRA100	HAUTSOV183G1SRA100
	3+PE	250 V	24 A	32 A	HO5 VV - F 40G0.5	HAUTSOV183G1PRA100	HAUTSOV183G1SRA100
	3+PE	500 V	10 A	16 A	HO5 VV - F 4G1.5	HAUTSOV124PEPRA100	HAUTSOV124PESRA100
	4	500 V	10 A	13 A	HO5 VV - F 4x1.5	HAUTSOV104PRA100	HAUTSOV104SRA100
	3	500 V	10 A	5 A	HO5 VV - F 7G0.5	HAUTSOV103V8PRA100	HAUTSOV103V8SRA100
	6	250 V	5 A	7 A	HO5 VV - F 7x0.5	HAUTSOV106PRA100	HAUTSOV106SRA100
	6+PE	500 V	10 A	16 A	HO5 VV - F 7G1.5	HAUTSOV147PEPRA100	HAUTSOV147PESRA100
	8	500 V	10 A	10 A	HO5 VV - F 8x1.5	HAUTSOV128PRA100	HAUTSOV128SRA100
	10	250 V	5 A	6 A	HO5 VV - F 10G0.5	HAUTSOV1210PRA100	HAUTSOV1210SRA100
	12	500 V	10 A	10 A	HO5 VV - F 12x1.5	HAUTSOV1412PRA100	HAUTSOV1412SRA100
	19	250 V	5 A	5 A	HO5 VV - F 21G0.5	HAUTSOV1419PRA100	HAUTSOV1419SRA100
	23	500 V	10 A	9 A	HO5 VV - F 25G1.5	HAUTSOV1823PRA100	HAUTSOV1823SRA100
	32	250 V	5 A	4 A	HO5 VV - F 40G0.5	HAUTSOV1832PRA100	HAUTSOV1832SRA100
UTS Hi seal	2	250 V	7 A	7 A	HO5 VV - F 2x0.5	HAUTSOV8E2PRA100	HAUTSOV8E2SRA100
	2	650 V	13 A	16 A	HO5 VV - F 2x1.5	HAUTSOV12E2PRA100	HAUTSOV12E2SRA100
	3	250 V	7 A	7 A	HO5 VV - F 3x0.5	HAUTSOV8E3PRA100	HAUTSOV8E3SRA100
	3	250 V	7 A	7 A	HO5 VV - F 3x0.5	HAUTSOV8E3APRA100	HAUTSOV8E3ASRA100
	3	250 V	7 A	7 A	HO5 VV - F 3x0.5	HAUTSOV8E33PRA100	HAUTSOV8E33SRA100
	3	650 V	13 A	16 A	HO5 VV - F 3x1.5	HAUTSOV12E3PRA100	HAUTSOV12E3SRA100
	4	250 V	7 A	7 A	HO5 VV - F 4x0.5	HAUTSOV8E4PRA100	HAUTSOV8E4SRA100
	5	650 V	12 A	16 A	HO5 VV - F 4G1.5	HAUTSOV14E5PRA100	HAUTSOV14E5SRA100
	6	250 V	5 A	7 A	HO5 VV - F 7x0.5	HAUTSOV10E6PRA100	HAUTSOV10E6SRA100
	6	250 V	6 A	7 A	HO5 VV - F 7x0.5	HAUTSOV10E98PRA100	HAUTSOV10E98SRA100
	6+PE	500 V	10 A	16 A	HO5 VV - F 7G1.5	HAUTSOV14E7PEPRA100	HAUTSOV14E7PESRA100
	7	250 V	6 A	7 A	HO5 VV - F 7x0.5	HAUTSOV10E7PRA100	HAUTSOV10E7SRA100
	8	250 V	5 A	6 A	HO5 VV - F 10G0.5	HAUTSOV12E8PRA100	HAUTSOV12E8SRA100
	10	250 V	5 A	6 A	HO5 VV - F 10G0.5	HAUTSOV12E10PRA100	HAUTSOV12E10SRA100
	12	250 V	5 A	4 A	HO5 VV - F 12G0.5	HAUTSOV14E12PRA100	HAUTSOV14E12SRA100
	14	250 V	5 A	5 A	HO5 VV - F 14G0.5	HAUTSOV12E14PRA100	HAUTSOV12E14SRA100
	15	650 V	12 A	4 A	HO5 VV - F 18G0.5	HAUTSOV14E15PRA100	HAUTSOV14E15SRA100
	18	250 V	4 A	4 A	HO5 VV - F 18G0.5	HAUTSOV14E18PRA100	HAUTSOV14E18SRA100
	19	250 V	4 A	5 A	HO5 VV - F 40G0.5	HAUTSOV14E19PRA100	HAUTSOV14E19SRA100

\* see page 18

3 m & 5 m version available on demand

Eg: 3m HAUTSOV... 300

5m HAUTSOV... 500

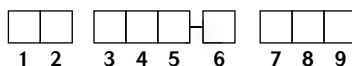


### Cable information

<b>Range of temperature:</b>	Occasional flexing: -5°C up to +70°C Fixed installation: -40°C up to +80°C
<b>Rated voltage:</b>	U0/U: 300/500 V
<b>Wire section :</b>	Arrangement with #16 contact: wire section 1.5 mm <sup>2</sup> Arrangement with #20 contact: wire section 0.5 mm <sup>2</sup>
<b>Harmonized reference:</b>	H05 VVF XX

### Standardization of European cable - DIN VDE 0281/DIN VDE 0282/DIN VDE 0292

#### Harmonized wire coding system



1. Basic type	2. Working voltage	3. Insulating	4. Sheath-cladding material	5. Special features	6. Conductor types	7. Number of conductors	8. Protective conductor	9. Conductor cross-sectional
H: Harmonized Type	03: 300/300 V.	V: PVC	V: PVC	H: Ribbon cable, separable	U: Single wire		X: Without protective conductor	Area specified in mm <sup>2</sup>
A: National Type	05: 300/500 V.	R: Rubber	R: Rubber	H2: Ribbon cable non-separable	R: Multi-wire		G: With protective conductor	
	07: 450/750 V.	S: Silicone Rubber	N: Cloroprene Rubber		K: Fine wire (permanently installed)			
			J: Glass-filament braiding		F: Fine wire (flexible)			
			T: Textile braiding		H: Super fine wire			
					Y: Tinsel strand			

Example: Harmonized type, 300/500V, PVC insulating, PVC sheath-cladding, Fine wire, 3x1.5 cross-sectional: H05VVF3x1.5



### Standardization of American cable

#### Nomenclature Key

<b>S:</b>	Service Grade (also means extra hard service when not followed by J, V, or P)
<b>J:</b>	Hard Service
<b>V:</b>	Vacuum cleaner cord (also light duty cable)
<b>P:</b>	Parallel cord (also known as zip cord) – Always light duty
<b>E:</b>	Thermoplastic Elastomer (UL/NEC designation ONLY)
<b>O:</b>	Oil Resistant*
<b>T:</b>	Thermoplastic
<b>W:</b>	Outdoor-includes sunlight resistant jacket and wet location rated conductors (formerly "W-A")
<b>H:</b>	Heater cable
<b>VW-1:</b>	Flame retardant
<b>FT2:</b>	Flame retardant

#### Definitions of Cable Types

<b>SVT:</b>	Thermoplastic insulated vacuum cleaner cord, with or without 3rd conductor for grounding purposes; 300V. (PVC)
<b>SJT:</b>	Junior hard service, thermoplastic insulated conductors and jacket. 300V. (PVC)
<b>SJTW:</b>	Same as SJT except outdoor rated. (PVC)
<b>SJTO:</b>	Same as SJT but oil resistant outer jacket. (PVC)
<b>SJTOW:</b>	Same as SJTO except outdoor rated. (PVC)
<b>ST:</b>	Hard service cord with all thermoplastic construction, 600V. (PVC)
<b>STW:</b>	Same as ST except outdoor rated. (PVC)
<b>STO:</b>	Same as ST but with oil resistant outer jacket. (PVC)
<b>STOW:</b>	Same as STO except outdoor rated. (PVC)



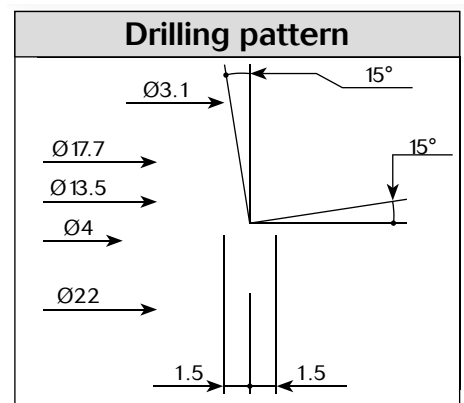
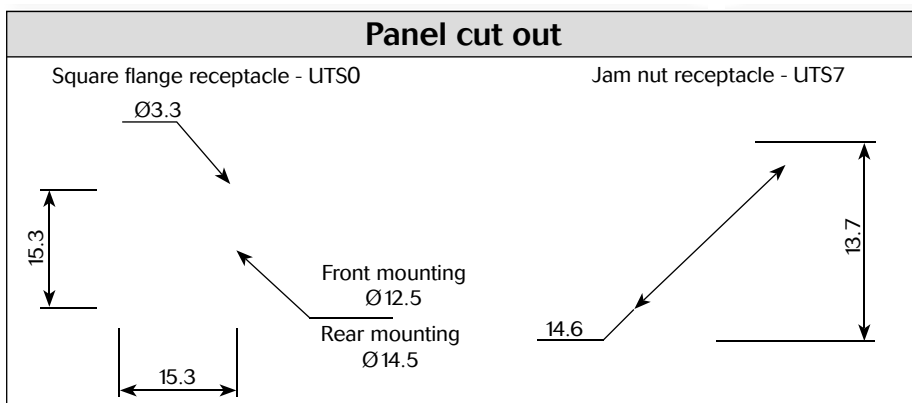
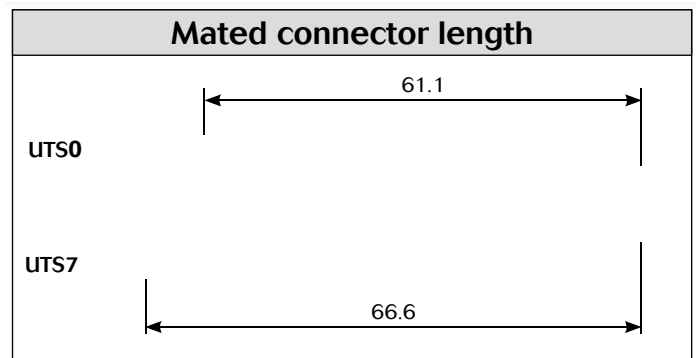
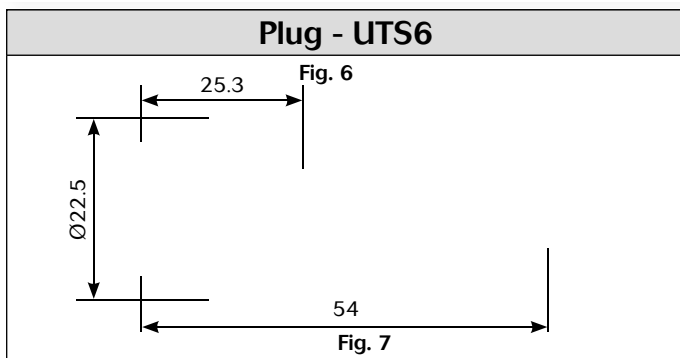
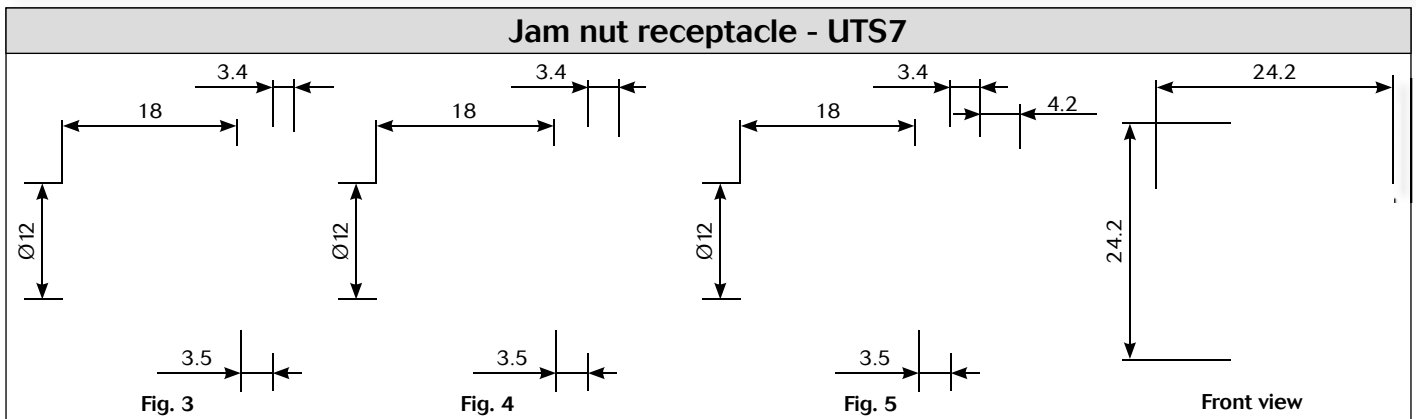
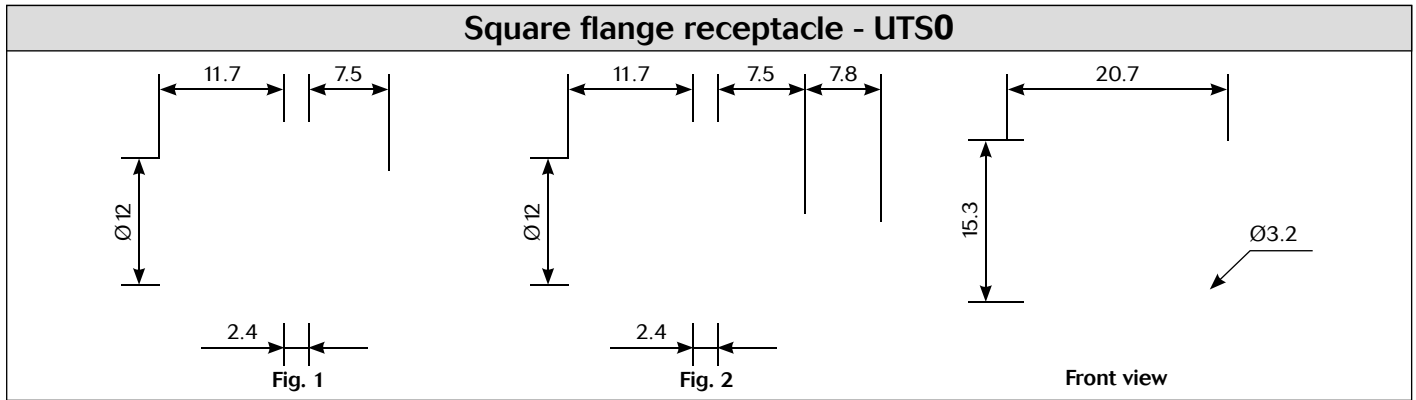
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsoldier electrical contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS08E2P</b>	<b>UTS08E2S</b>
	Plug	Without (Fig.6)	<b>UTS68E2P</b>	<b>UTS68E2S</b>
		Cable gland (Fig.7)	<b>UTS6JC8E2P</b>	<b>UTS6JC8E2S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS78E2P</b>	<b>UTS78E2S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS08D2P</b>	<b>UTS08D2S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	<b>UTS78D2P32</b>	<b>UTS78D2S32</b>
	Jam nut receptacle with stand off and with hold down clip	Without (Fig.4)	<b>UTS78D2P</b>	<b>UTS78D2S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm



### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS8DCG	UTS8DCGR

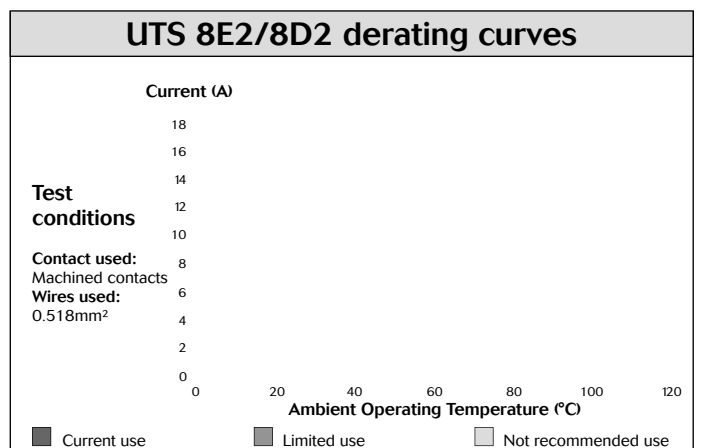
Square flange sealing cap
Metal terminal
Part number
UTS8DCGE

Plug protective cap
IP40
Part number
UTS68C

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005585A	85005594

Gasket
Part numbers / neoprene
UTFD11B

Electrical characteristics
<p><b>UL</b> 7A 250V UL94 HB</p> <p><b>CSA</b> 7A 250V UL94 HB</p> <p><b>IEC</b> 7A 32V 1.5kV 3</p>



# UTS Series

8E2/8D2







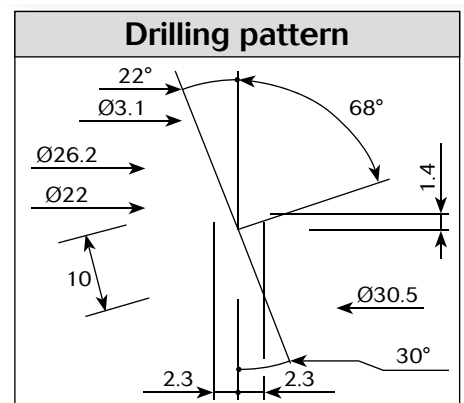
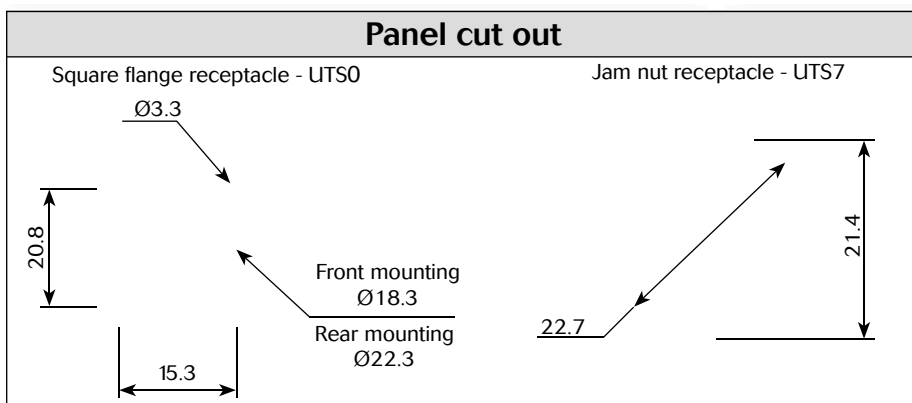
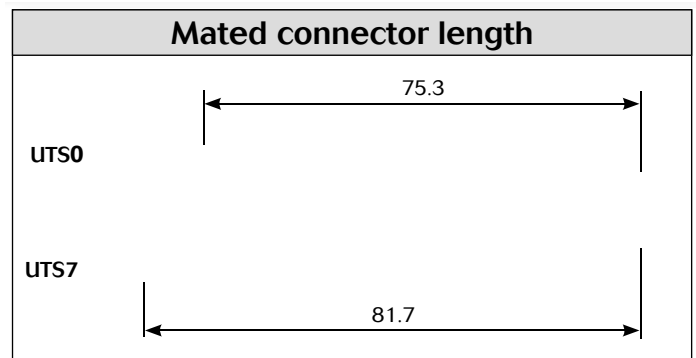
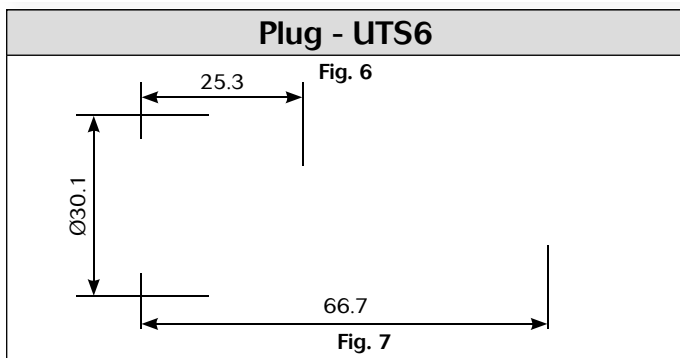
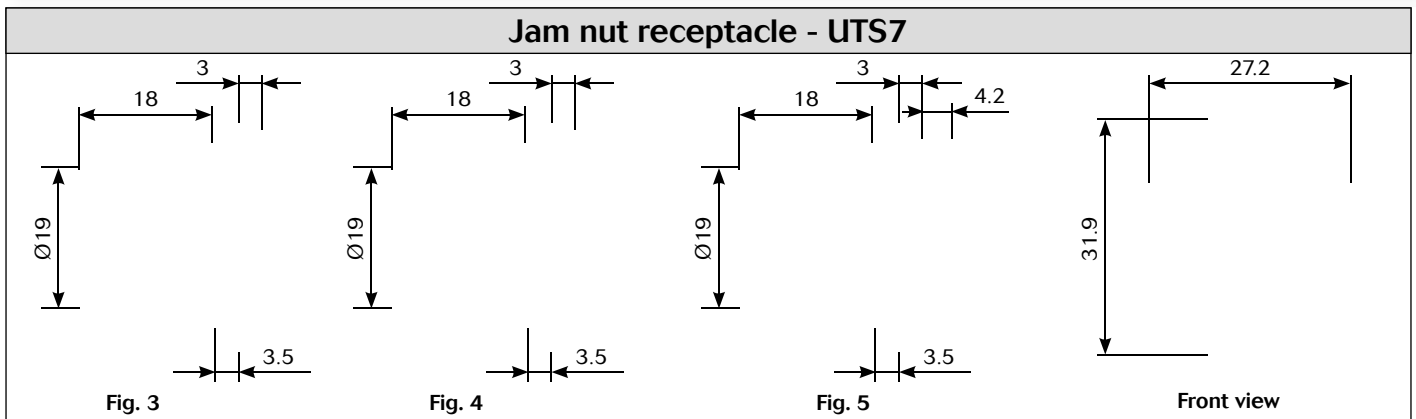
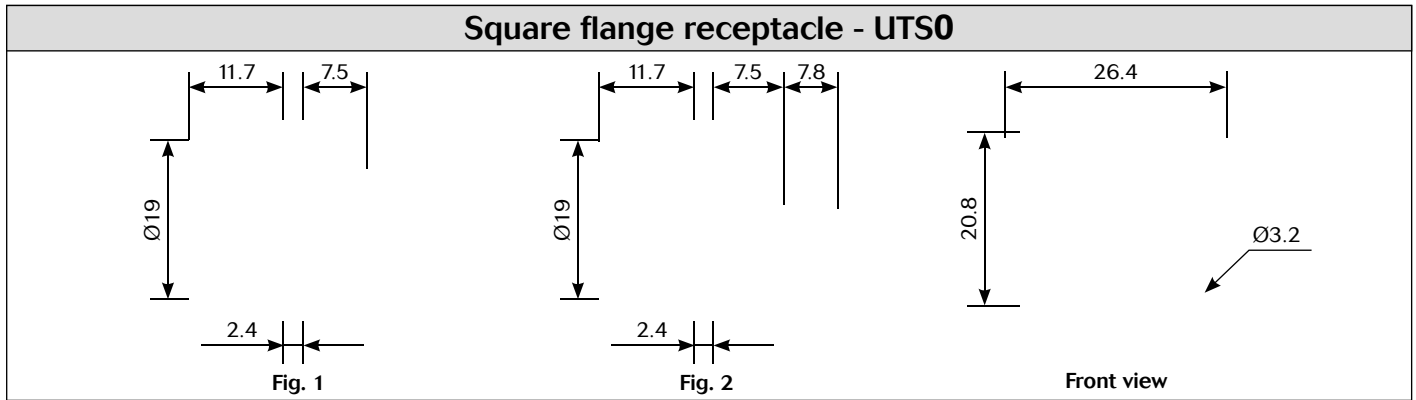
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS012E2P</b>	<b>UTS012E2S</b>
	Plug	Without (Fig.6)	<b>UTS612E2P</b>	<b>UTS612E2S</b>
		Cable gland (Fig.7)	<b>UTS6JC12E2P</b>	<b>UTS6JC12E2S</b>
Jam nut receptacle	Without (Fig.3)	<b>UTS712E2P</b>	<b>UTS712E2S</b>	
PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS012D2P</b>	<b>UTS012D2S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	<b>UTS712D2P32</b>	<b>UTS712D2S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	<b>UTS712D2P</b>	<b>UTS712D2S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm



### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Plug sealing cap
Part number
UTS612DCG

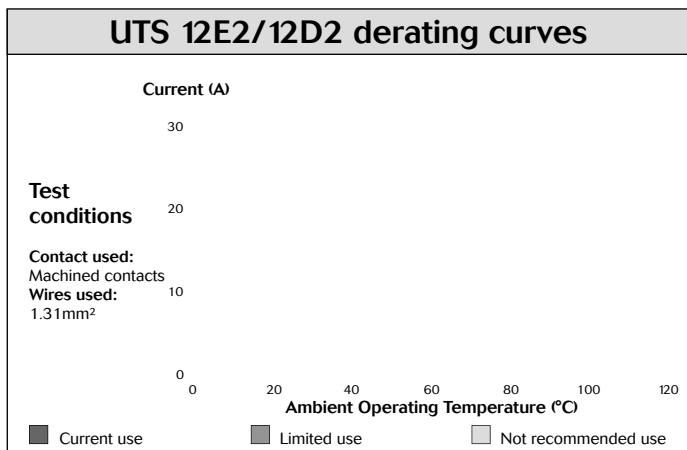
Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS712CCRR</td> <td>UTS612CCRR</td> </tr> <tr> <td>UTS712CCRY</td> <td>UTS612CCRY</td> </tr> <tr> <td>UTS712CCRG</td> <td>UTS612CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS712CCRR	UTS612CCRR	UTS712CCRY	UTS612CCRY	UTS712CCRG	UTS612CCRG
Part numbers											
Receptacles		Plugs									
UTS712CCRR	UTS612CCRR										
UTS712CCRY	UTS612CCRY										
UTS712CCRG	UTS612CCRG										
y for Yellow											
R for Red											
* Add G for Green, Y for Yellow, R for Red											

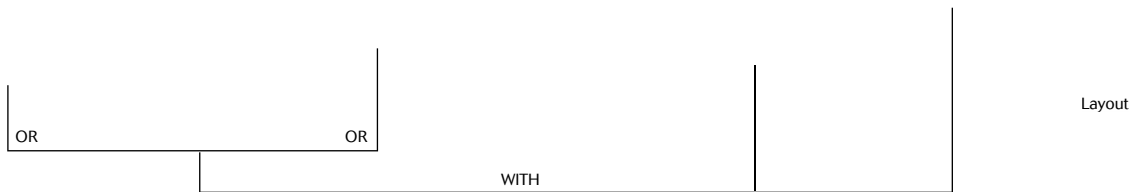
Electrical characteristics
<p><b>UL</b></p> <p>13A 650V UL94 HB</p> <p><b>CSA</b></p> <p>13A 650V UL94 HB</p> <p><b>IEC</b></p> <p>16A 150V 2.5kV 3</p>



# UTS Series

12E2/12D2



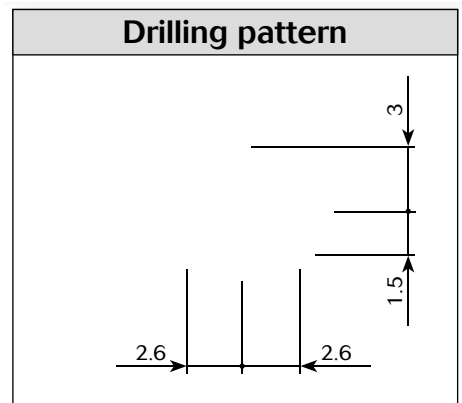
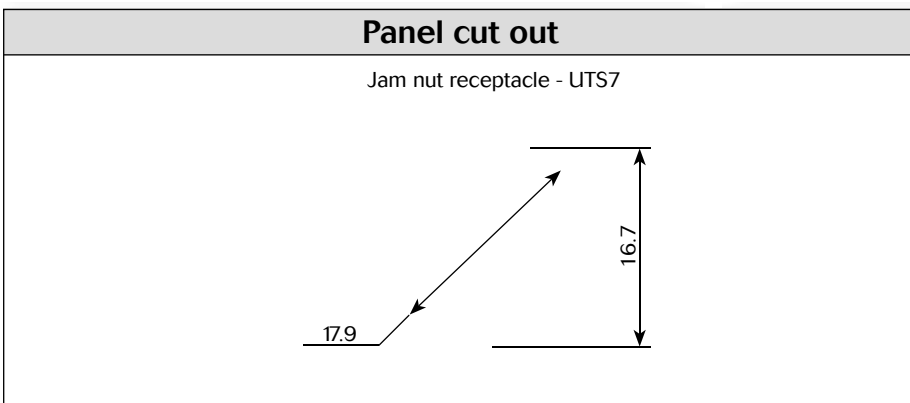
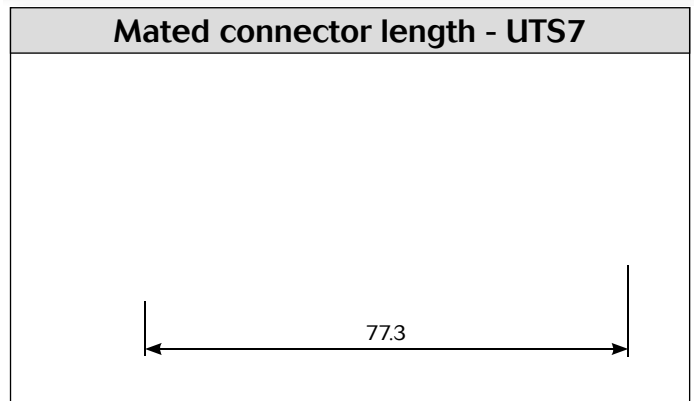
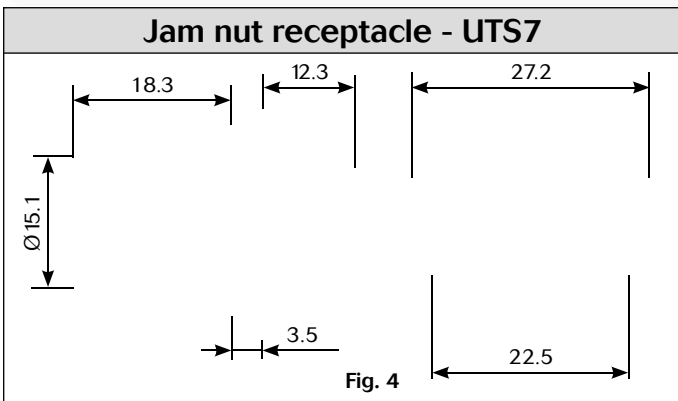
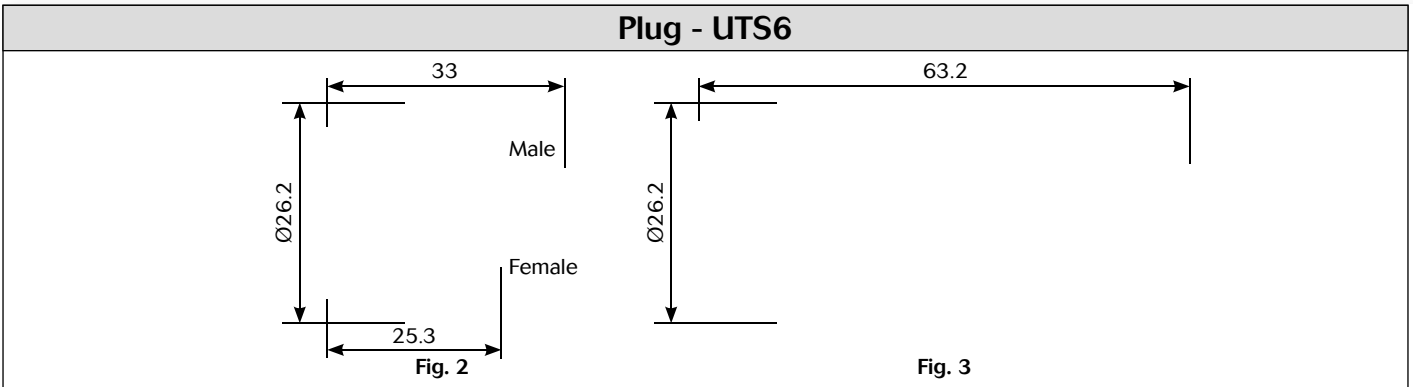
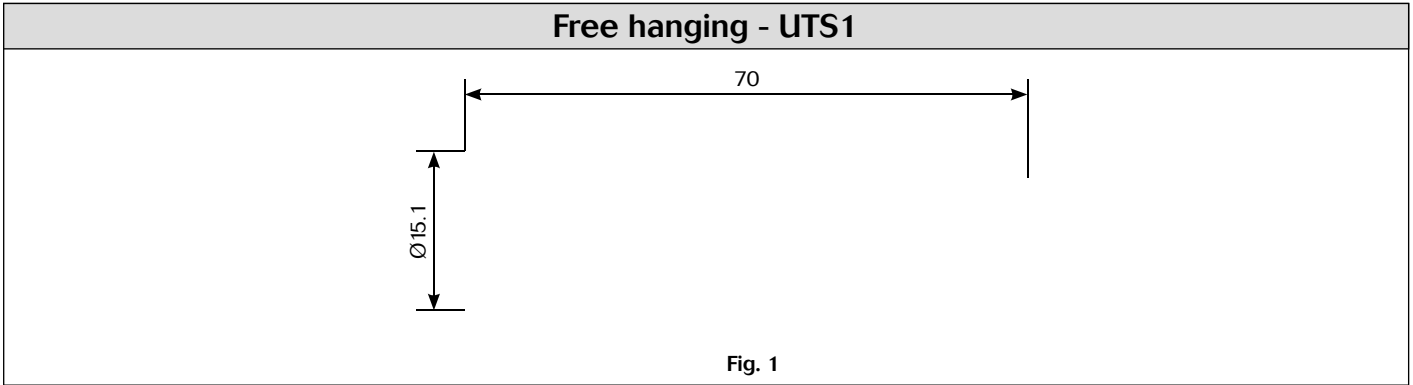


## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 31	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC103P</b>	<b>UTS1JC103S</b>
	Plug	Without (Fig.2)	<b>UTS6103P</b>	<b>UTS6103S</b>
		Cable gland (Fig.3)	<b>UTS6JC103P</b>	<b>UTS6JC103S</b>
PCB contacts supply separately see page 31	Jam nut receptacle	Without (Fig.4)	<b>UTS7103P</b>	<b>UTS7103S</b>



### Dimensions



*Note: all dimensions are in mm*



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS10DCG	UTS10DCGR

Handle
Part number
SHANGLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS610DCG

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

Gasket
Part numbers / neoprene
UTFD12B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS710CCRR	UTS610CCRR
y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRG	UTS610CCRG
* Add G for Green, Y for Yellow, R for Red		

Crimp tooling		
Contacts	Contact size	Part number of head
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20
RM RC 24MØK <sup>(1)</sup>		S16RCM20
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4
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 16ML1TK6 <sup>(1)</sup>		S16SCML11
RMDXK10D28K		Coaxial contacts
RCDXK1D28K	MI0S-1J	
RM RC DX60xxD28K	MI0S-1J	
RM RC DXK10D28 + yor k090	MI0S-1J	
RM RC DX60xxD28	MI0S-1J	

(1): example of plating, for other plating see UTS catalog page 143

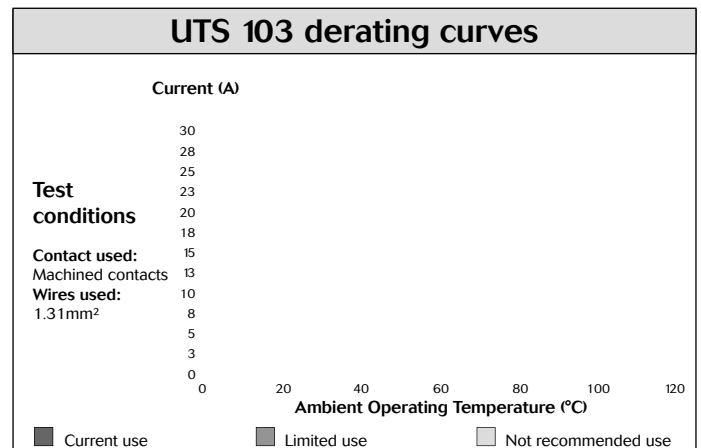


### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	<b>RM28MI K<sup>(1)</sup></b>	<b>RC28MI K<sup>(1)</sup></b>	0.55	1.1
		26-24	<b>RM24MI K<sup>(1)</sup></b>	<b>RC24MI K<sup>(1)</sup></b>	0.8	1.6
		22-20	<b>RM20MI 3K<sup>(1)</sup></b>	<b>RC20MI 3K<sup>(1)</sup></b>	1.18	1.8
		22-20	<b>RM20MI 2K<sup>(1)</sup></b>	<b>RC20MI 2K<sup>(1)</sup></b>	1.18	2.2
		20-16	<b>RM16MI 23K<sup>(1)</sup></b>	<b>RC16MI 23K<sup>(1)</sup></b>	1.8	3.2
		16-14	<b>RM14MI 50K<sup>(1)</sup></b>	<b>RC14MI 50K<sup>(1)</sup></b>	2.05	3.2
		16-14	<b>RM14MI 80K<sup>(1)</sup></b>	<b>RC14MI 80K<sup>(1)</sup></b>	2.28	3.2
	Stamped & formed reeled contacts	26-24	<b>SM24MI TK6<sup>(1)(2)</sup></b>	<b>SC24MI TK6<sup>(1)(2)</sup></b>	0.89-1.28	-
		22-20	<b>SM20MI TK6<sup>(1)(2)</sup></b>	<b>SC20MI TK6<sup>(1)(2)</sup></b>	1.17-2.08	-
		18-16	<b>SM16MI TK6<sup>(1)(2)</sup></b>	<b>SC16MI TK6<sup>(1)(2)</sup></b>	3.0	-
18-16		<b>SM16MI 1TK6<sup>(1)(2)</sup></b>	<b>SC16MI 1TK6<sup>(1)(2)</sup></b>	2.0-3.0	-	
14		<b>SM14MI TK6<sup>(1)(2)</sup></b>	<b>SC14MI TK6<sup>(1)(2)</sup></b>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	<b>RM20MI 2E8K<sup>(1)</sup></b>	<b>RC20MI 2E84K<sup>(1)</sup></b>	-	-
Coaxial	Cable Multipiece	-	<b>RMDXK10D28</b>	<b>RCDXK1 D28</b>	-	-
	Cable Monocrimp	-	<b>RMDX60xxD28</b>	<b>RCDX60xxD28</b>	-	-
	Twisted pair Multipiece	-	<b>RMDXK10D28 + yor k090</b>	<b>RCDXK1 D28 + yor k090</b>	-	-
	Twisted pair Monocrimp	-	<b>RMDX60xxD28</b>	<b>RCDX60xxD28</b>	-	-
Fiber optic	POF contacts Plastic optical fibre	-	<b>RMPOF1000</b>	<b>RCPOF1000B</b>	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: **SM20ML1- TK6**  
 (3): For dimensions see page 148

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 300V 4kV 3 Temperature elevation: 50°C</p>





# UTS Series 142G1

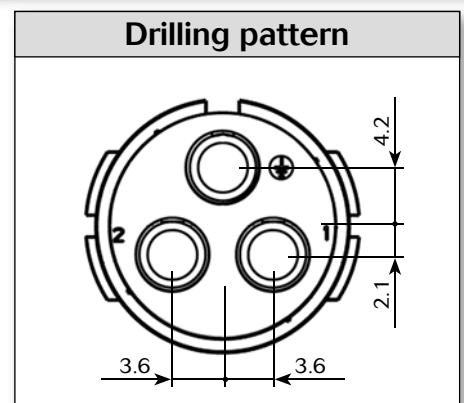
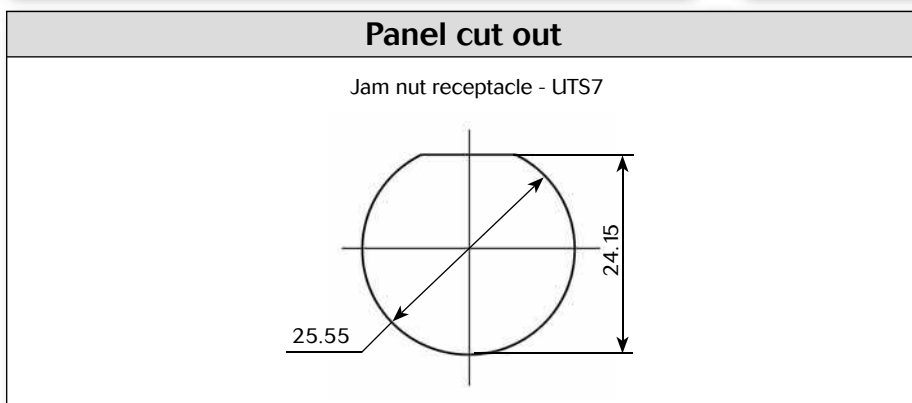
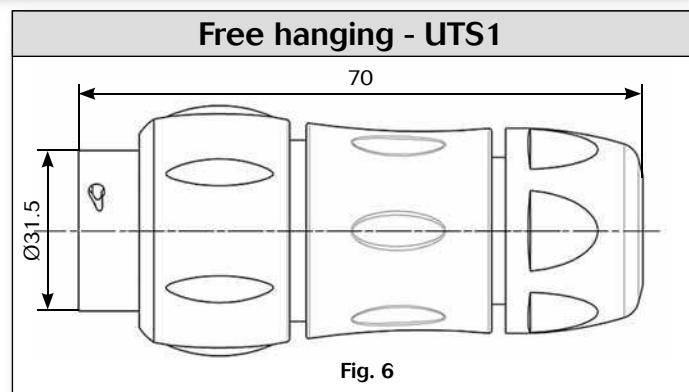
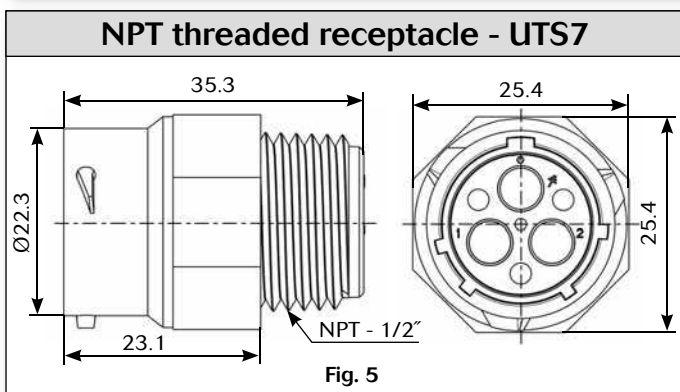
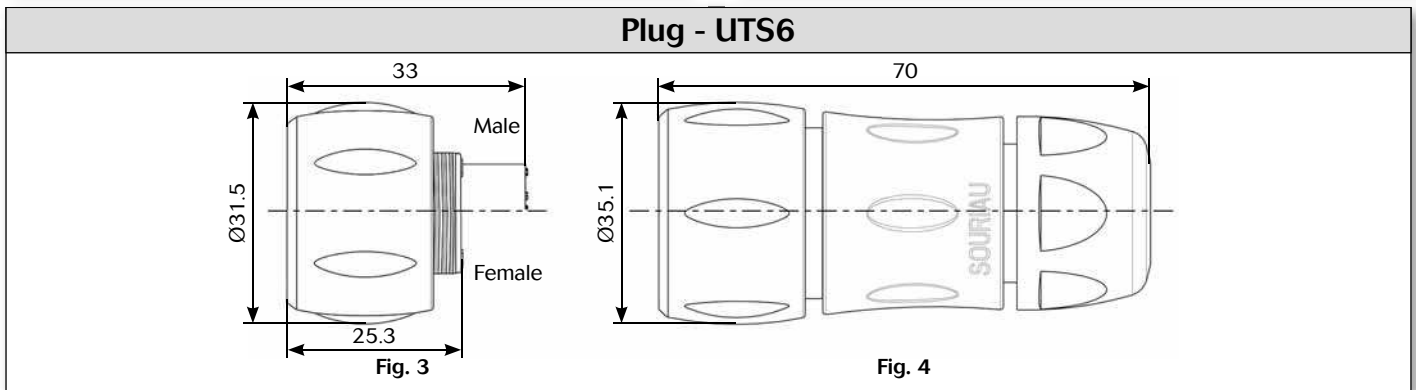
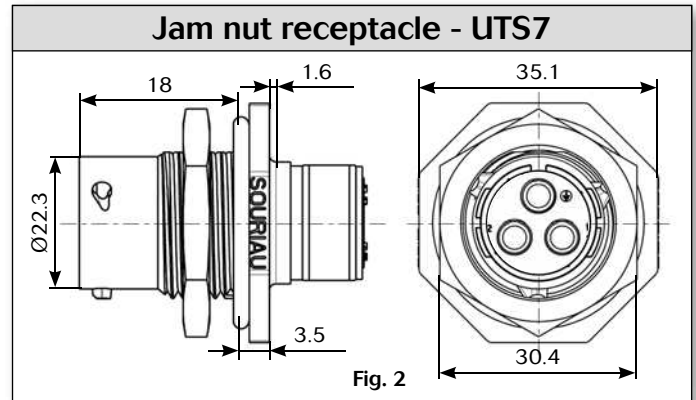
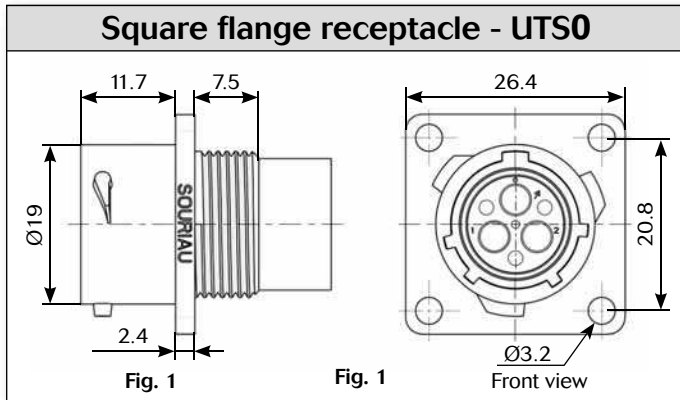


## Specifications

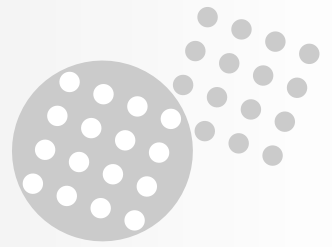
Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 35	Square flange receptacle	Without (Fig. 1)	<b>UTS0142G1P</b>	
	Free hanging receptacle	Cable gland (Fig. 6)	<b>UTS1JC142G1P</b>	<b>UTS1JC142G1S</b>
	Plug	Without (Fig. 3)	<b>UTS6142G1P</b>	<b>UTS6142G1S</b>
		Cable gland (Fig. 4)	<b>UTS6JC142G1P</b>	<b>UTS6JC142G1S</b>
	Jam nut receptacle	Without (Fig. 2)	<b>UTS7142G1P</b>	<b>UTS7142G1S</b>
	NPT threaded receptacle	Without (Fig. 5)		<b>UTS7142G1SNPT</b>



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
<b>UTS14DCG</b>	<b>UTS14DCGR</b>

Hand tool
Part number
<b>MB17</b>

Plug sealing cap
Part number
<b>UTS614DCG</b>

Positioner + locator setting
Part number
<b>VGE10078A</b>

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
<b>85005588A</b>	<b>85005597</b>

Gasket
Part numbers / neoprene
<b>UTFD14B</b>

Extraction tool
Part number
<b>51060210936</b>

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	<b>UTS714CCRR</b>	<b>UTS614CCRR</b>
y for Yellow	<b>UTS714CCRY</b>	<b>UTS614CCRY</b>
R for Red	<b>UTS714CCRG</b>	<b>UTS614CCRG</b>
* Add G for Green, Y for Yellow, R for Red		

# UTS Series

## 142G1



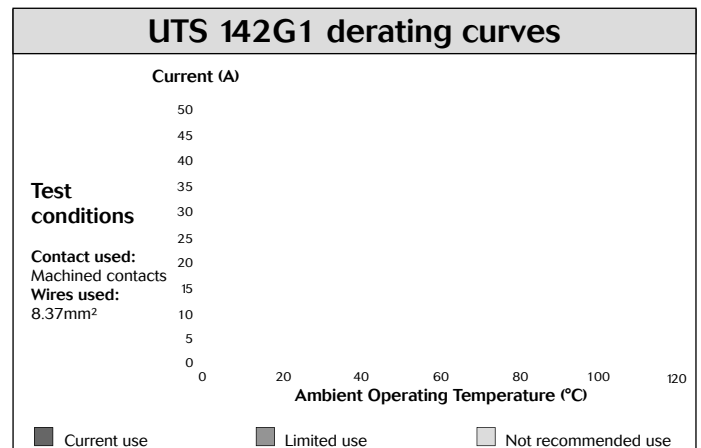
2 + ground  
40A/300V  
per IEC 61984

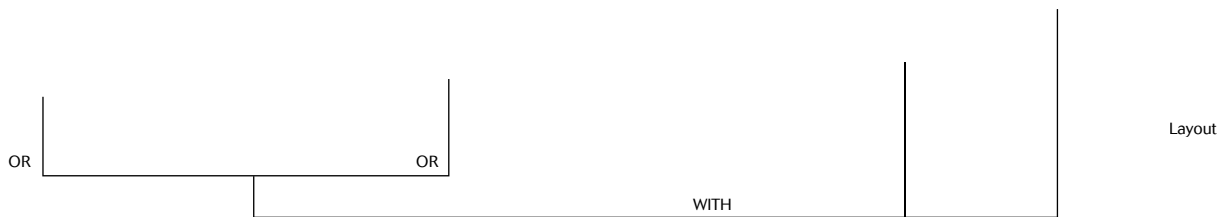
### Contacts

#8	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	16	82913601A <sup>(1)</sup>	82913600A <sup>(1)</sup>	-	6.5
		14	82913603A <sup>(1)</sup>	82913602A <sup>(1)</sup>	-	
		12	82913605A <sup>(1)</sup>	82913604A <sup>(1)</sup>	-	
		10	82913607A <sup>(1)</sup>	82913606A <sup>(1)</sup>	-	
		8	82913609A <sup>(1)</sup>	82913608A <sup>(1)</sup>	-	

(1): Example of plating, for other plating see page 143

Electrical characteristics
<p><b>UL</b> 44A 600V UL94 V-0</p> <p><b>CSA</b> 30A 600V UL94 V-0</p> <p><b>IEC</b> 40A 300V 4kV 3</p>





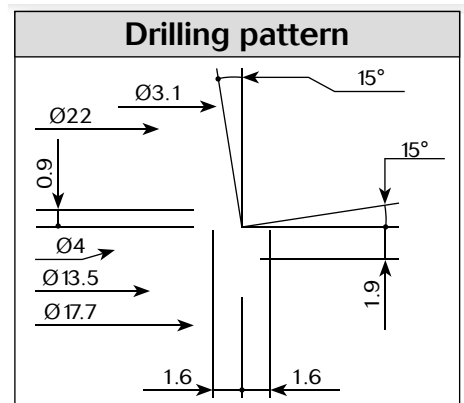
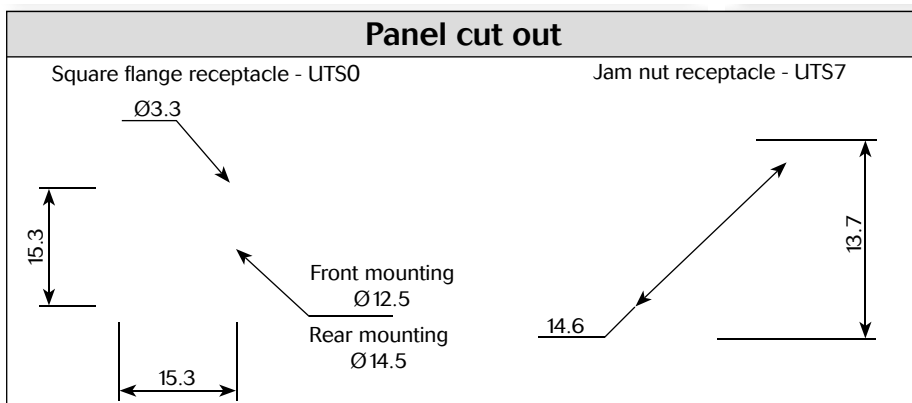
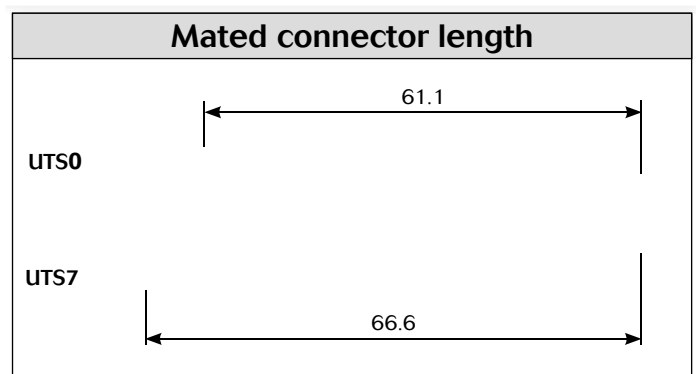
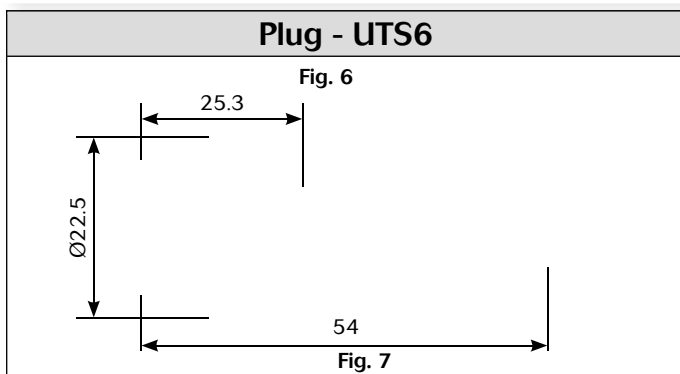
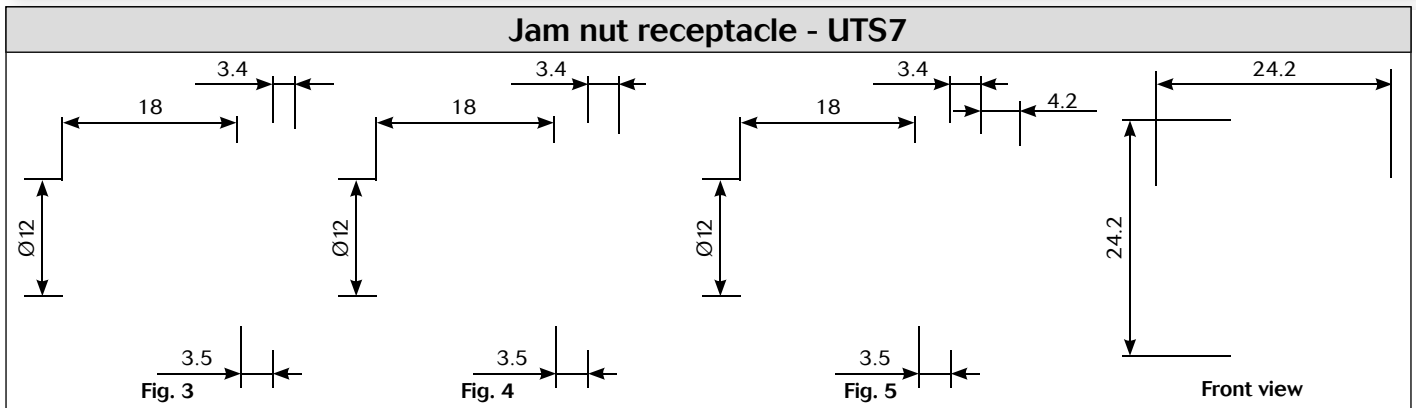
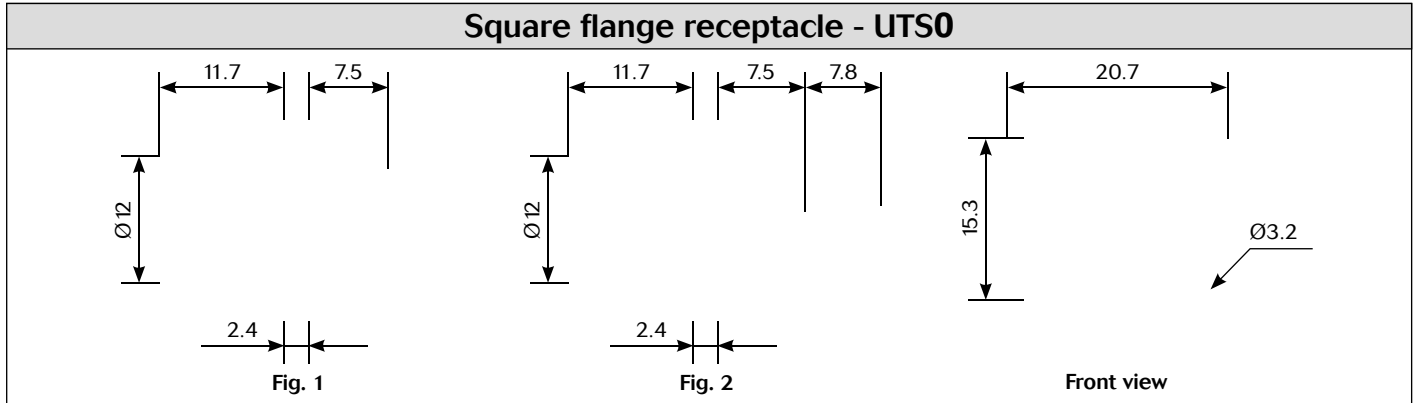
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsoldier electrical contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS08E3P</b>	<b>UTS08E3S</b>
	Plug	Without (Fig.6)	<b>UTS68E3P</b>	<b>UTS68E3S</b>
		Cable gland (Fig.7)	<b>UTS6JC8E3P</b>	<b>UTS6JC8E3S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS78E3P</b>	<b>UTS78E3S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS08D3P</b>	<b>UTS08D3S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	<b>UTS78D3P32</b>	<b>UTS78D3S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	<b>UTS78D3P</b>	<b>UTS78D3S</b>

Sealed unmated



### Dimensions





### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS8DCG	UTS8DCGR

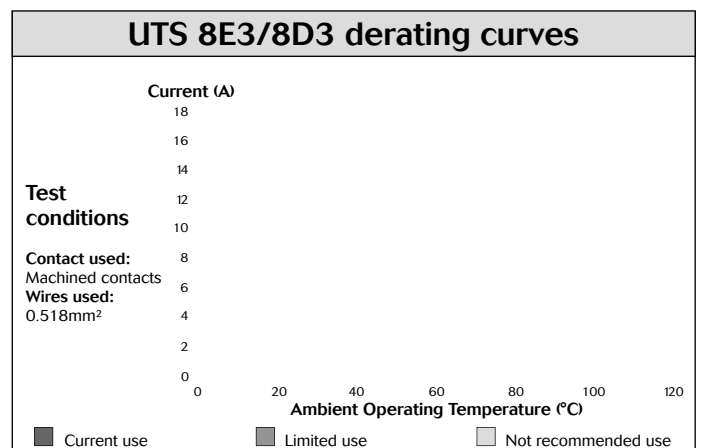
Square flange sealing cap
Metal terminal
Part number
UTS8DCGE

Plug protective cap
IP40
Part number
UTS68C

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005585A	85005594

Gasket
Part numbers / neoprene
UTFD11B

Electrical characteristics
<b>UL</b> 7A 250V UL94 HB
<b>CSA</b> 7A 250V UL94 HB
<b>IEC</b> 7A 32V 1.5kV 3



# UTS Series

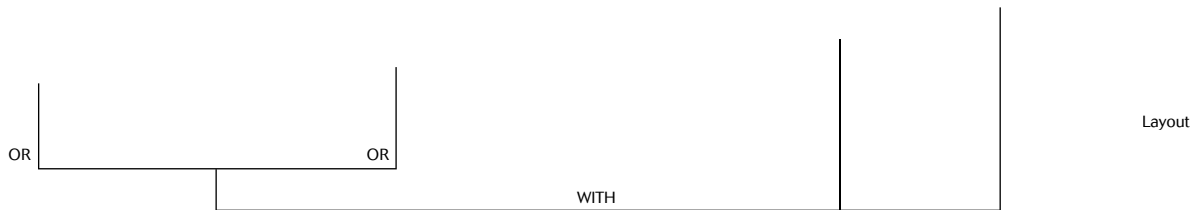
8E3/8D3





# UTS Series

## 8E3A/8E98 - 8D3A/8D98



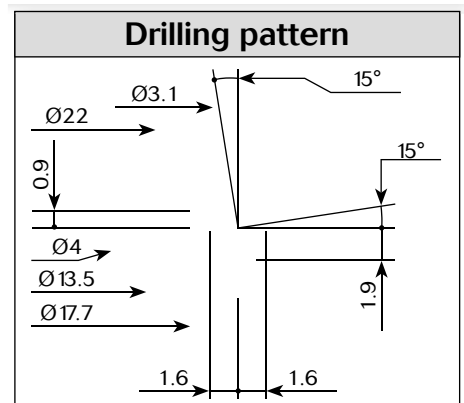
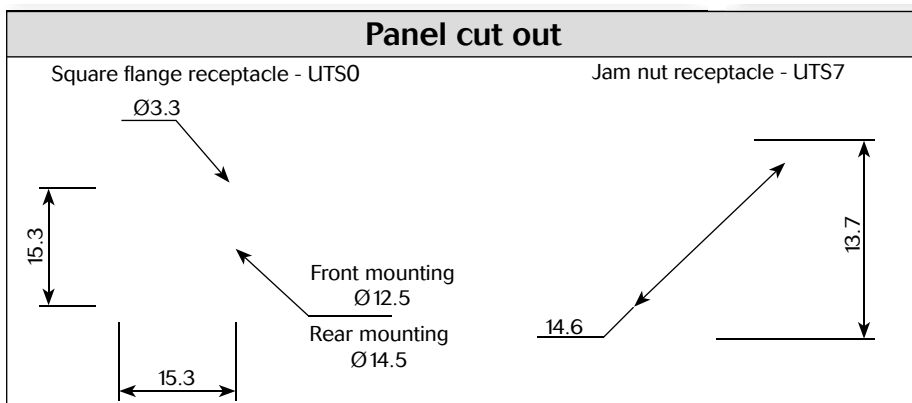
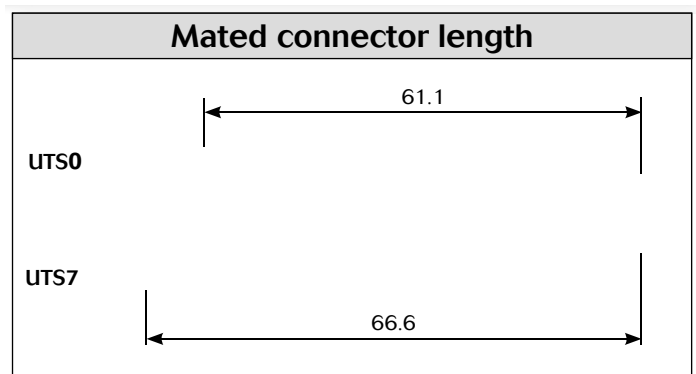
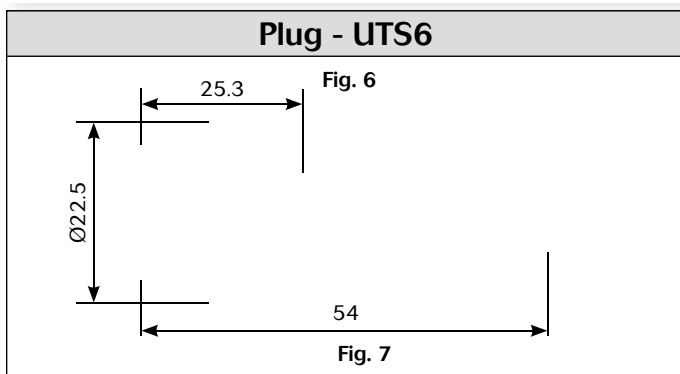
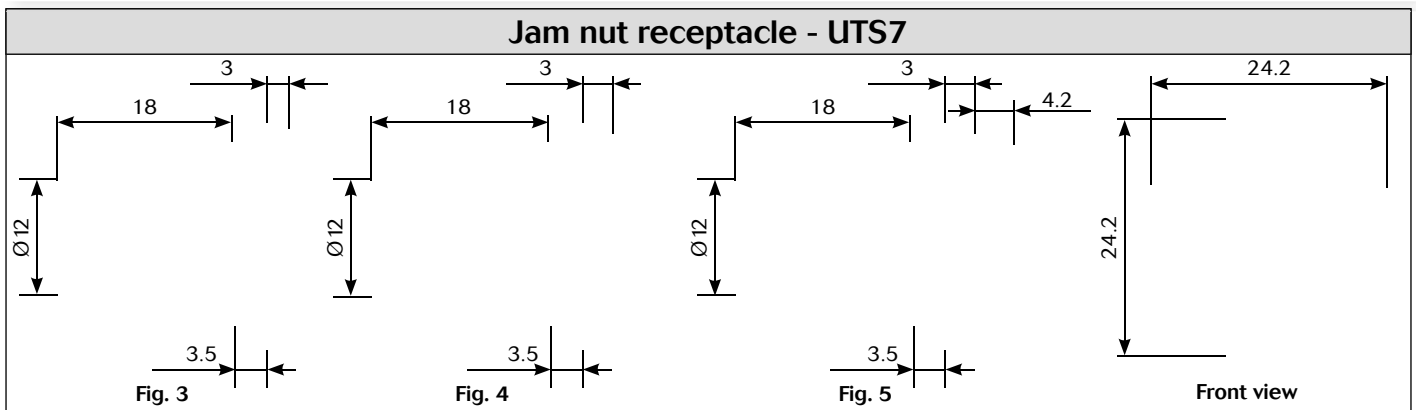
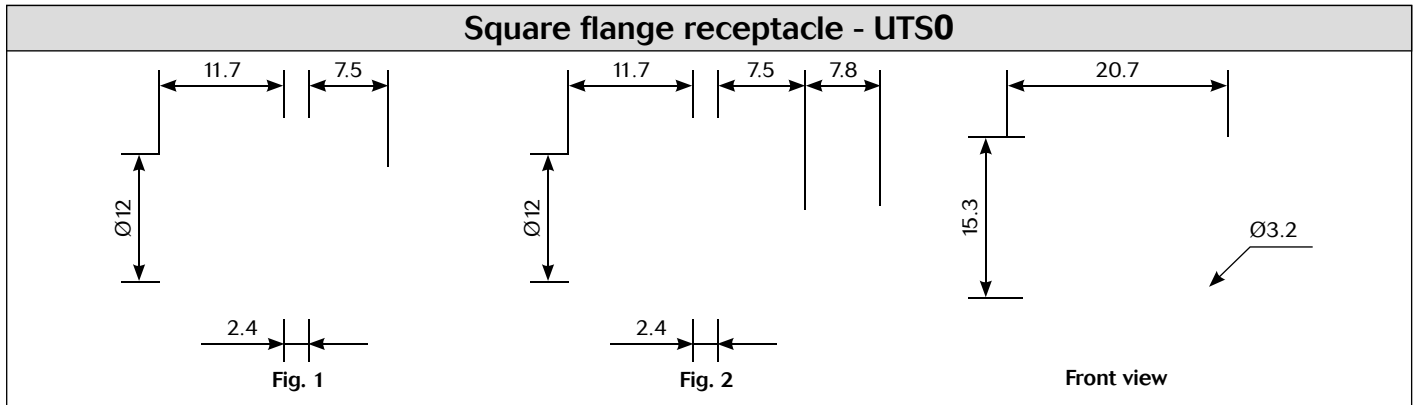
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS08E3AP</b>	<b>UTS08E3AS</b>
			<b>UTS08E98P</b>	<b>UTS08E98S</b>
	Plug	Without (Fig.6)	<b>UTS68E3AP</b>	<b>UTS68E3AS</b>
			<b>UTS68E98P</b>	<b>UTS68E98S</b>
		Cable gland (Fig.7)	<b>UTS6JC8E3AP</b>	<b>UTS6JC8E3AS</b>
	<b>UTS6JC8E98P</b>		<b>UTS6JC8E98S</b>	
	Jam nut receptacle	Without (Fig.3)	<b>UTS78E3AP</b>	<b>UTS78E3AS</b>
			<b>UTS78E98P</b>	<b>UTS78E98S</b>
	PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS08D3AP</b>
<b>UTS08D98P</b>				<b>UTS08D98S</b>
Jam nut receptacle with stand off and with hold down clips		Without (Fig.5)	<b>UTS78D3AP32</b>	<b>UTS78D3AS32</b>
			<b>UTS78D98P32</b>	<b>UTS78D98S32</b>
Jam nut receptacle with stand off and without hold down clip		Without (Fig.4)	<b>UTS78D3AP</b>	<b>UTS78D3AS</b>
			<b>UTS78D98P</b>	<b>UTS78D98S</b>

Sealed unmatred



### Dimensions



Note: all dimensions are in mm

# UTS Series

## 8E3A/8E98 - 8D3A/8D98



### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS8DCG	UTS8DCGR

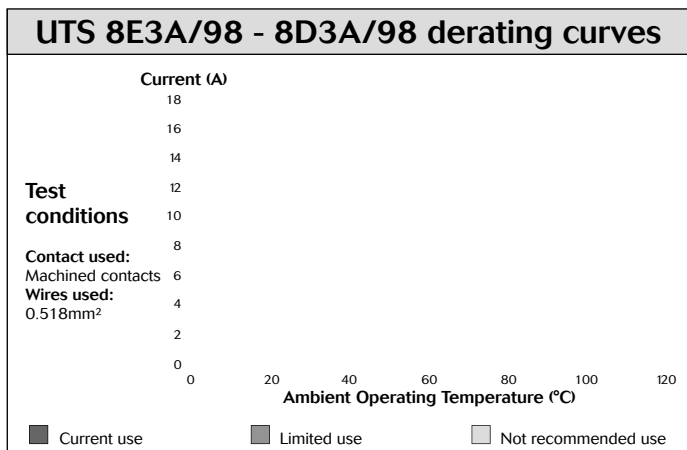
Square flange sealing cap
Metal terminal
Part number
UTS8DCGE

Plug protective cap
IP40
Part number
UTS68C

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005585A	85005594

Gasket
Part numbers / neoprene
UTFD11B

Electrical characteristics
<p><b>UL</b> 7A 250V UL94 HB</p> <p><b>CSA</b> 7A 250V UL94 HB</p> <p><b>IEC</b> 7A 50V 1.5kV 3</p>



# UTS Series

8E3A/8E98 - 8D3A/8D98





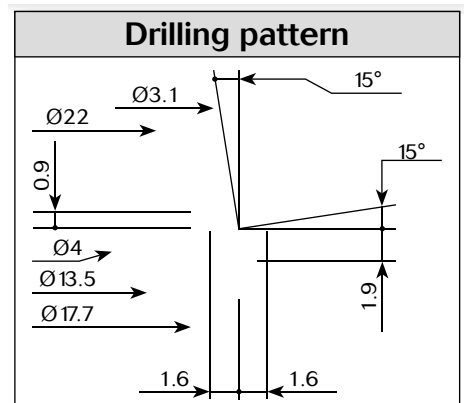
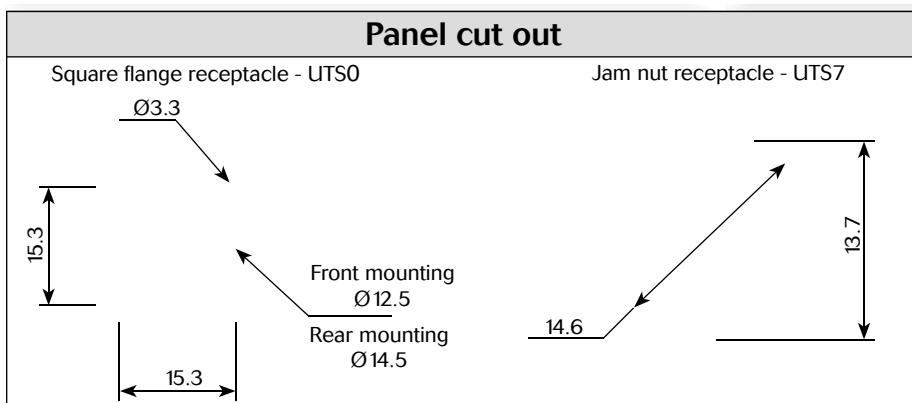
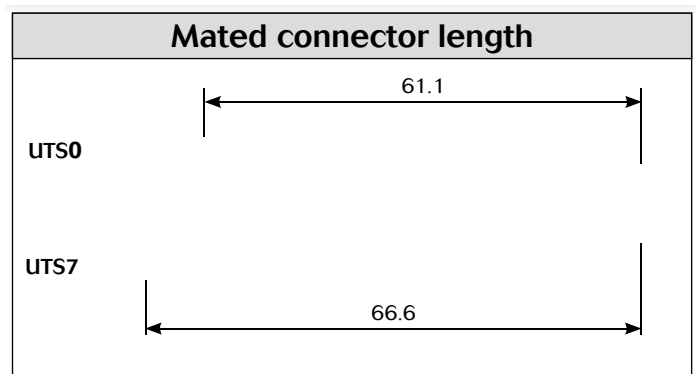
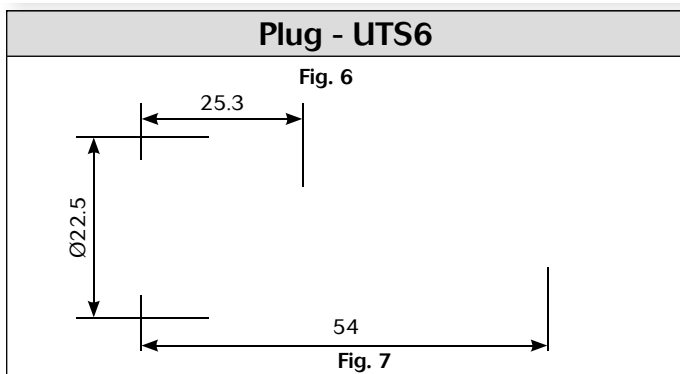
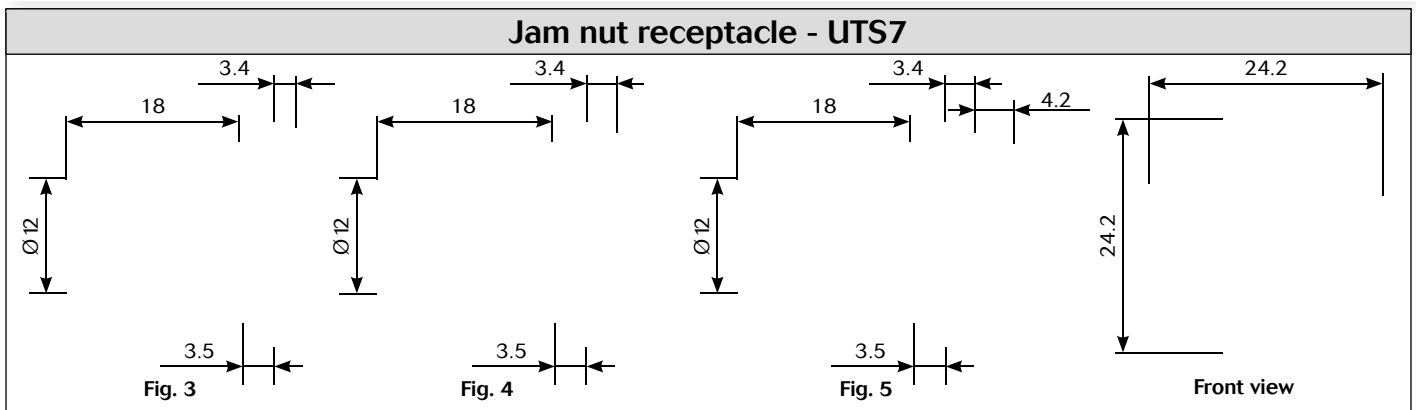
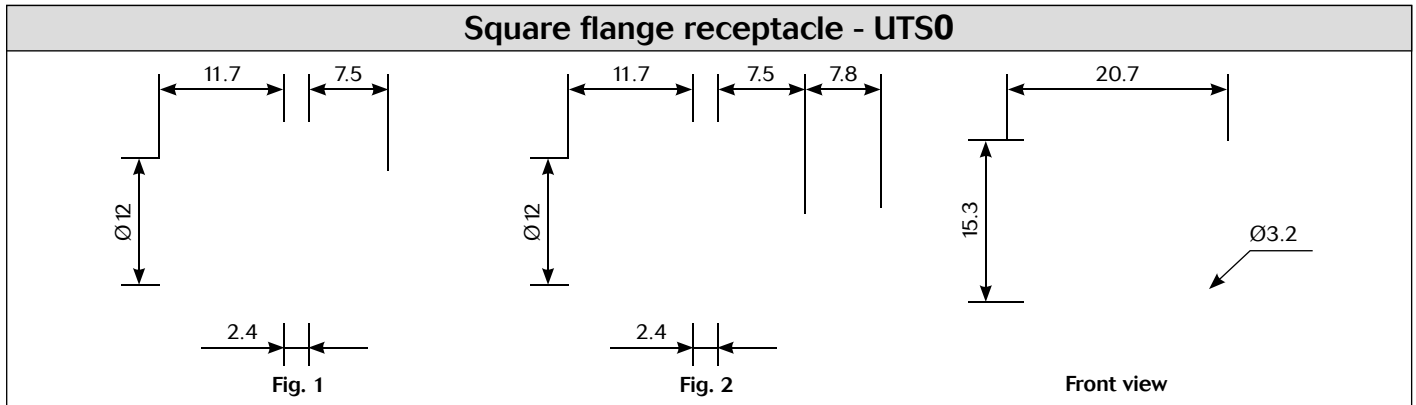
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS08E33P</b>	<b>UTS08E33S</b>
	Plug	Without (Fig.6)	<b>UTS68E33P</b>	<b>UTS68E33S</b>
		Cable gland (Fig.7)	<b>UTS6JC8E33P</b>	<b>UTS6JC8E33S</b>
Jam nut receptacle	Without (Fig.3)	<b>UTS78E33P</b>	<b>UTS78E33S</b>	
PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS08D33P</b>	<b>UTS08D33S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	<b>UTS78D33P32</b>	<b>UTS78D33S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	<b>UTS78D33P</b>	<b>UTS78D33S</b>

Sealed unmated



### Dimensions





### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS8DCG	UTS8DCGR

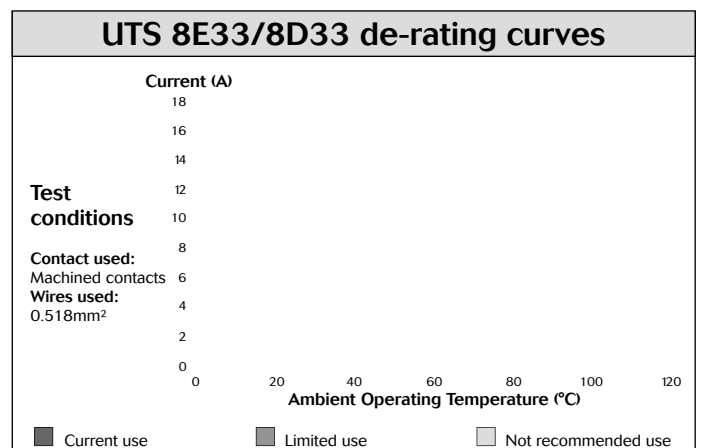
Square flange sealing cap
Metal terminal
Part number
UTS8DCGE

Plug protective cap
IP40
Part number
UTS68C

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005585A	85005594

Gasket
Part numbers / neoprene
UTFD11B

Electrical characteristics
<b>UL</b> 7A 250V UL94 HB
<b>CSA</b> 7A 250V UL94 HB
<b>IEC</b> 7A 50V 1.5kV 3



UTS Series  
8E33/8D33







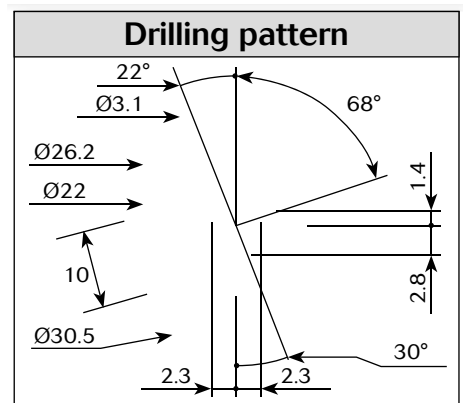
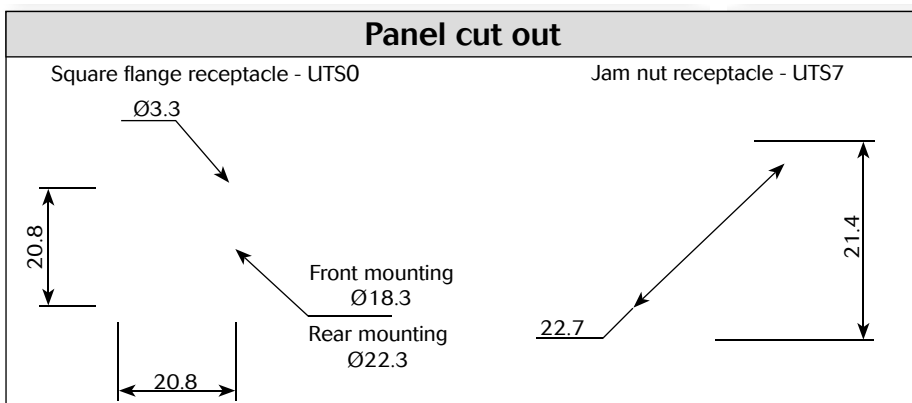
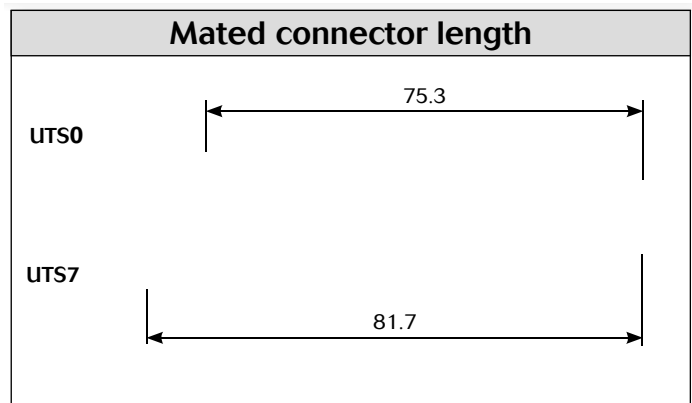
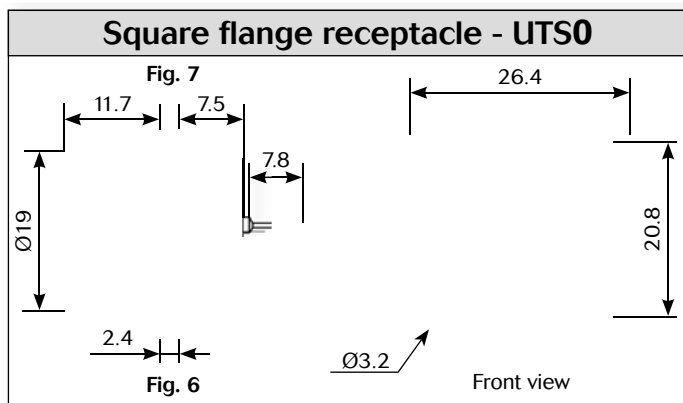
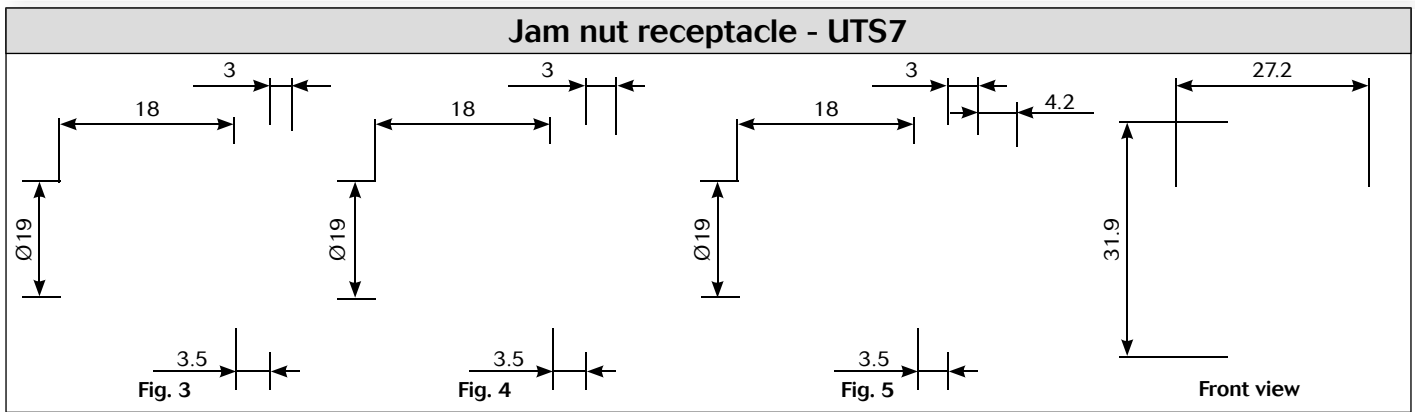
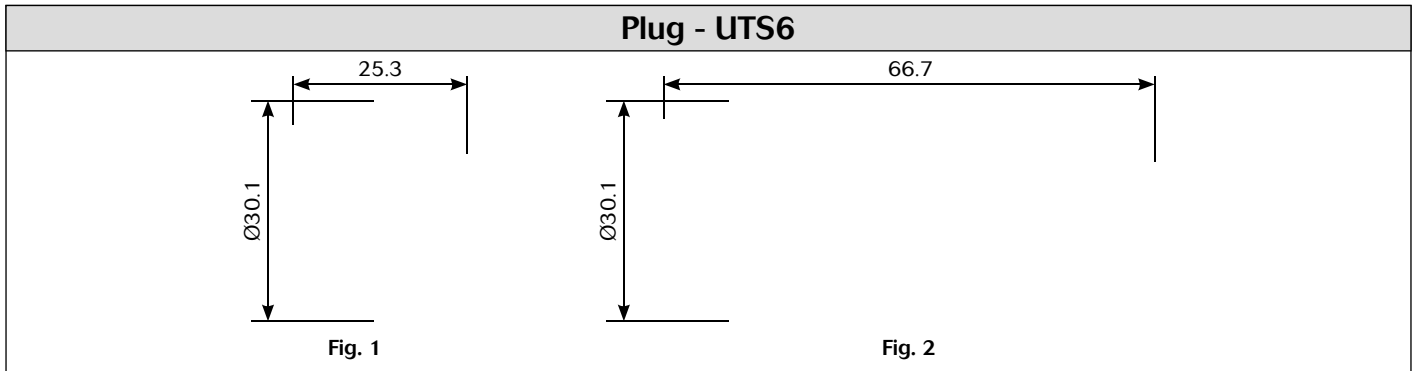
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS012E3P</b>	<b>UTS012E3S</b>
	Plug	Without (Fig.1)	<b>UTS612E3P</b>	<b>UTS612E3S</b>
		Cable gland (Fig.2)	<b>UTS6JC12E3P</b>	<b>UTS6JC12E3S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS712E3P</b>	<b>UTS712E3S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS012D3P</b>	<b>UTS012D3S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	<b>UTS712D3P32</b>	<b>UTS712D3S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	<b>UTS712D3P</b>	<b>UTS712D3S</b>

Sealed unmated



### Dimensions





### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Plug sealing cap
Part number
UTS612DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

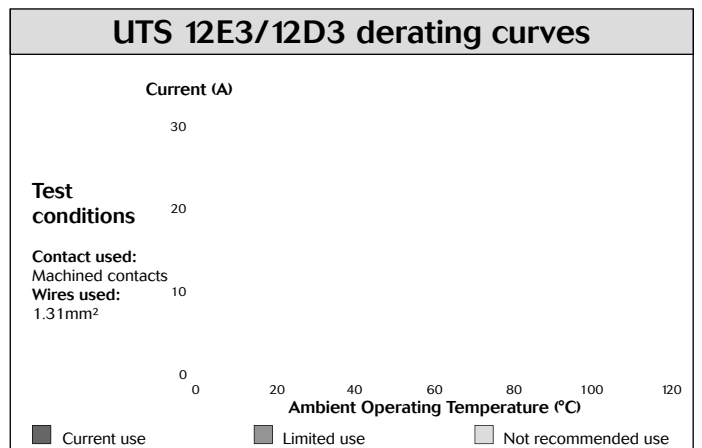
Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tr> <td>UTS712CCRR</td> <td>UTS612CCRR</td> </tr> <tr> <td>UTS712CCRY</td> <td>UTS612CCRY</td> </tr> <tr> <td>UTS712CCRG</td> <td>UTS612CCRG</td> </tr> </table>	Part numbers		Receptacles	Plugs	UTS712CCRR	UTS612CCRR	UTS712CCRY	UTS612CCRY	UTS712CCRG	UTS612CCRG
Part numbers											
Receptacles		Plugs									
UTS712CCRR	UTS612CCRR										
UTS712CCRY	UTS612CCRY										
UTS712CCRG	UTS612CCRG										
y for Yellow											
R for Red											

\* Add G for Green, Y for Yellow, R for Red

Electrical characteristics
<b>UL</b> 13A 650V UL94 HB  <b>CSA</b> 13A 650V UL94 HB  <b>IEC</b> 16A 150V 2.5kV 3



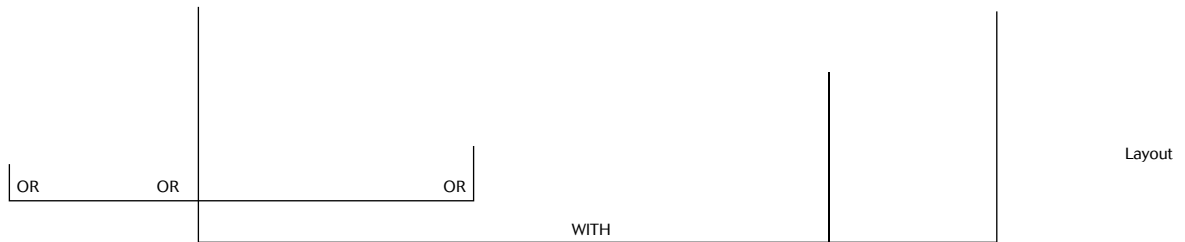
# UTS Series

12E3/12D3



# UTS Series

## 124 - 12E4/12D4



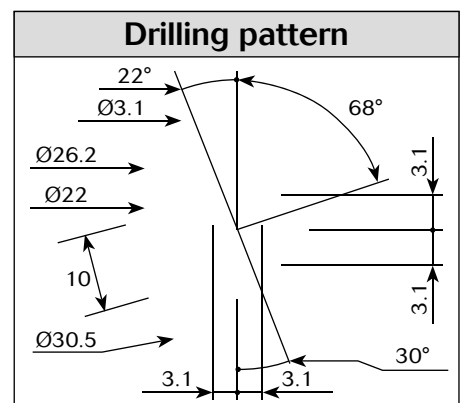
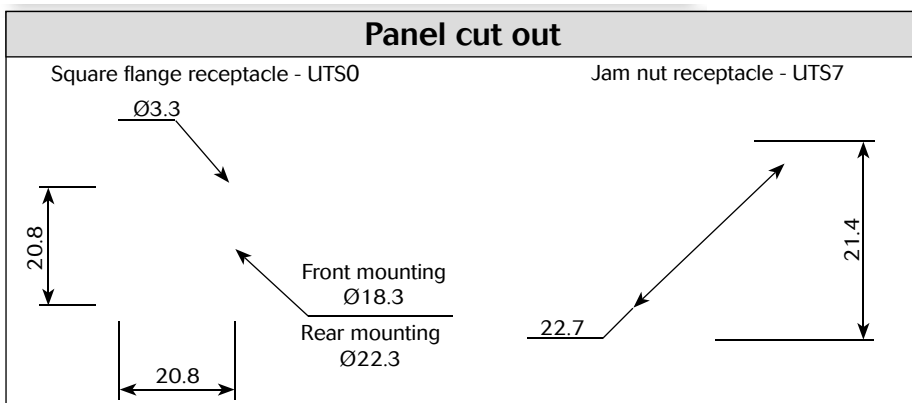
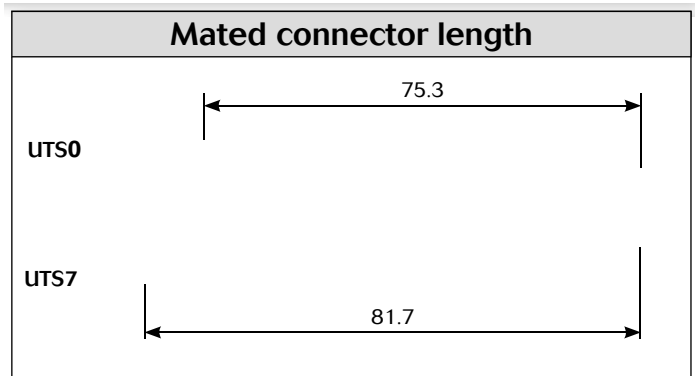
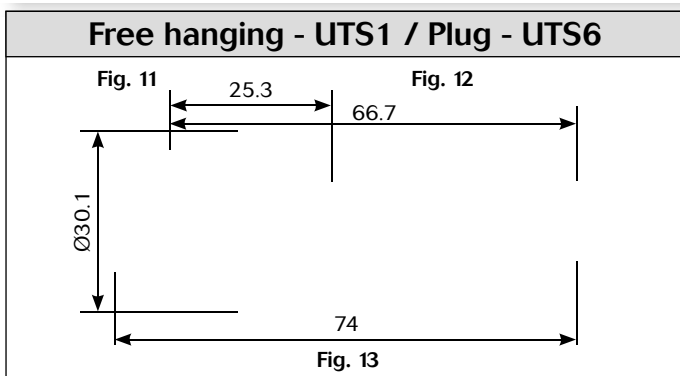
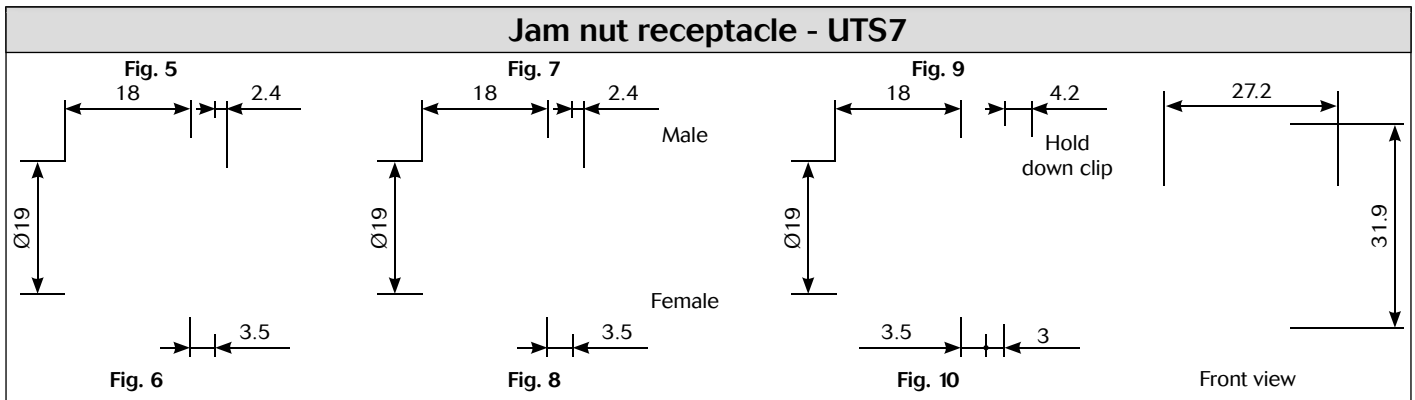
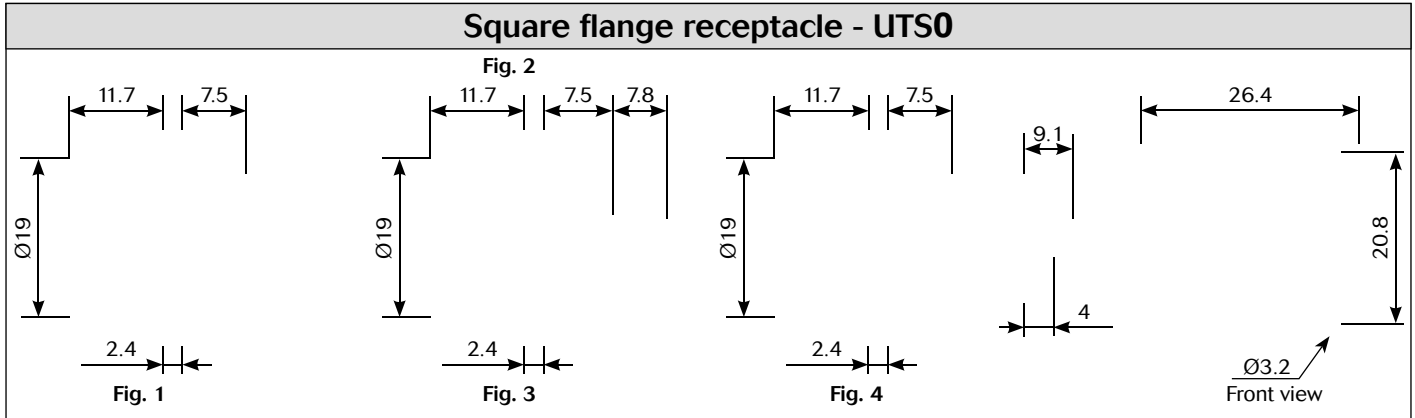
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 55	Square flange receptacle	Without (Fig.1)	<b>UTS0124P</b>	
	Jam nut receptacle	Without (Fig.5)	<b>UTS7124P</b>	<b>UTS7124S</b>
	Free hanging receptacle	Cable gland (Fig. 13)	<b>UTS1JC124P</b>	<b>UTS1JC124S</b>
	Plug	Without (Fig. 11)	<b>UTS6124P</b>	<b>UTS6124S</b>
Cable gland (Fig. 12)		<b>UTS6JC124P</b>	<b>UTS6JC124S</b>	
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.3)	<b>UTS012E4P</b>	<b>UTS012E4S</b>
	Jam nut receptacle	Without (Fig. 10)	<b>UTS712E4P</b>	<b>UTS712E4S</b>
	Plug	Without (Fig. 11)	<b>UTS612E4P</b>	<b>UTS612E4S</b>
		Cable gland (Fig. 12)	<b>UTS6JC12E4P</b>	<b>UTS6JC12E4S</b>
Screw contacts loaded	Jam nut receptacle	Without (Fig.7 & 8)	<b>UTS7124PSCR</b>	<b>UTS7124SSCR</b>
	Plug	Without (Fig. 11)	<b>UTS6124PSCR</b>	<b>UTS6124SSCR</b>
		Cable gland (Fig. 12)	<b>UTS6JC124PSCR</b>	<b>UTS6JC124SSCR</b>
	Free hanging receptacle	Cable gland (Fig. 13)	<b>UTS1JC124PSCR</b>	
PCB contacts supply separately see page 55	Square flange receptacle	Without (Fig.4)	<b>UTS0124P</b>	
	Jam nut receptacle	Without (Fig.6)	<b>UTS7124P</b>	<b>UTS7124S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS012D4P</b>	<b>UTS012D4S</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.9)	<b>UTS712D4P</b>	<b>UTS712D4S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.9)	<b>UTS712D4P32</b>	<b>UTS712D4S32</b>

Sealed unmatred



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Handle
Part number
SHANGLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS612DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS712CCRR	UTS612CCRR
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRG	UTS612CCRG

\* Add G for Green, Y for Yellow, R for Red

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24MØK <sup>(1)</sup>		S16RCM20	
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4	
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 16ML1TK6 <sup>(1)</sup>		S16SCML11	
RMDXK10D28K		Coaxial contacts	MI 0S- 1J
RCDXK1D28K			MI 0S- 1J
RM RC DX60xxD28K	MI 0S- 1J		
RM RC DXK10D28 + yor k090	MI 0S- 1J		
RM RC DX60xxD28		MI 0S- 1J	

(1): example of plating, for other plating see UTS catalog page 143

# UTS Series

## 124 - 12E4/12D4



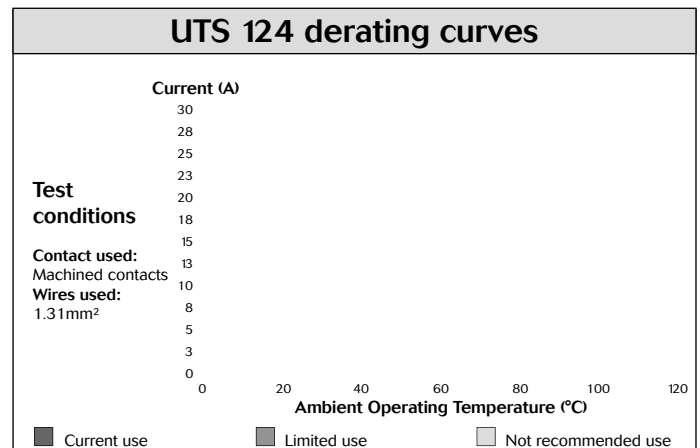
3 + ground  
16A/300V  
per IEC 61984

### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MØK <sup>(1)</sup>	RC24MØK <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16M23K <sup>(1)</sup>	RC16M23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14M50K <sup>(1)</sup>	RC14M50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MØK <sup>(1)</sup>	RC14MØK <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
18-16		SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-	
14		SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	-	RMDXK10D28	RCDXK1 D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK10D28 + yor k090	RCDXK1 D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1- TK6  
 (3): For dimensions see page 148

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 300V 4kV 3 Temperature elevation: 50°C</p>







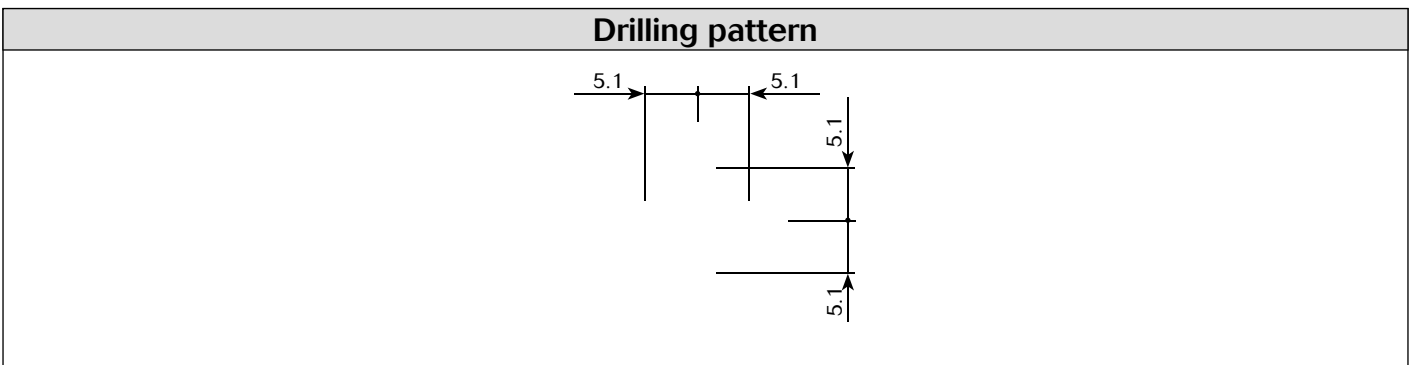
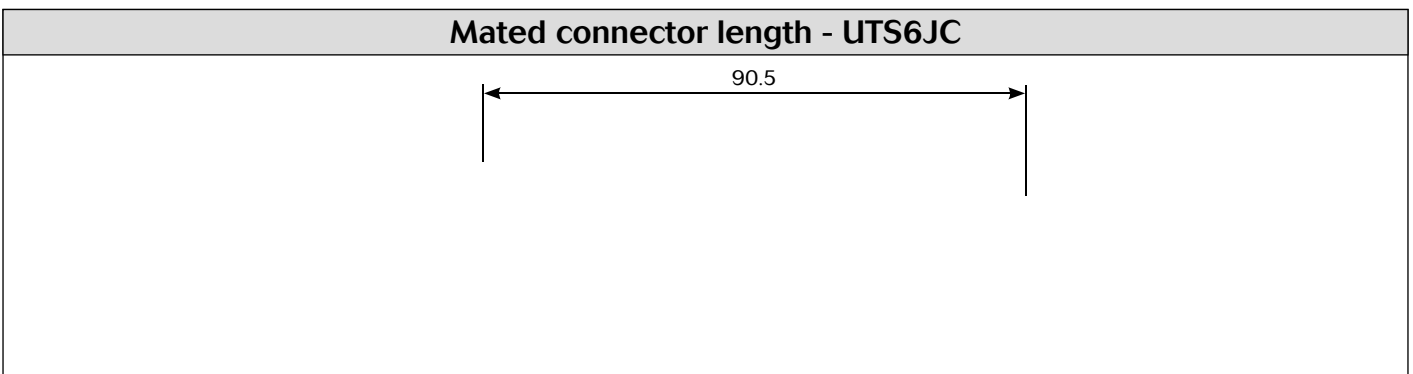
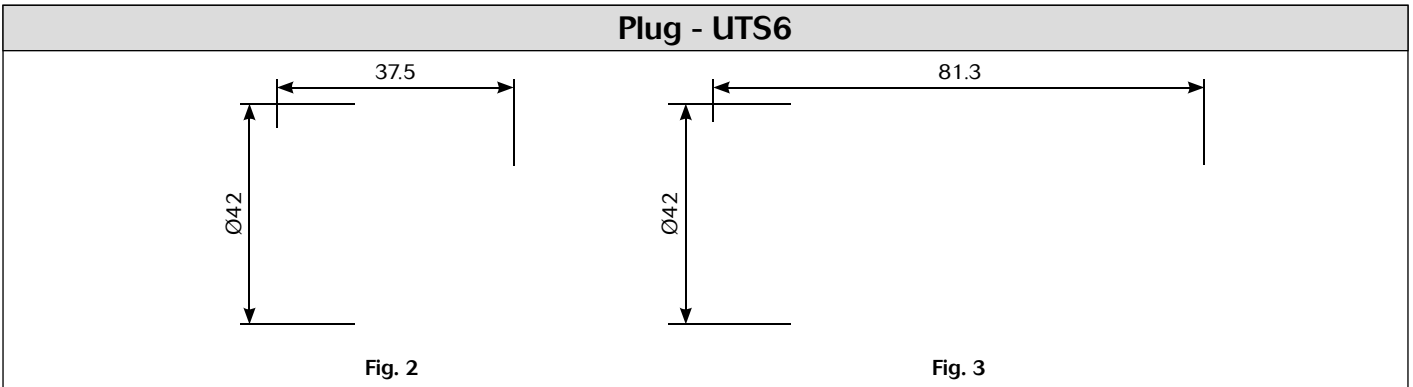
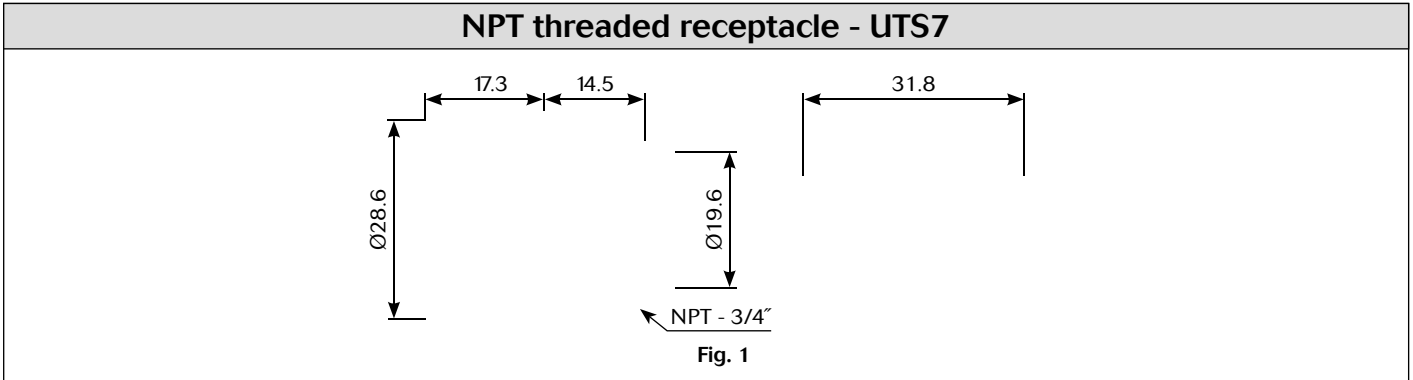
Layout

## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 59	NPT threaded receptacle	Without (Fig.1)		<b>UTS7183G1 SNPT</b>
	Plug	Without (Fig.2)	<b>UTS6183G1P</b>	
	Plug	Cable gland (Fig.3)	<b>UTS6JC183G1P</b>	



## Dimensions




Note: all dimensions are in mm




### Accessories and tooling

**Jam nut sealing caps**



Part number
<b>UTS14DCG</b>



Metal terminal

Part number
<b>UTS14DCGR</b>

**Hand tool**



Part number
<b>M317</b>

**Plug sealing cap**



Part number
<b>UTS614DCG</b>

**Positioner + locator setting**




Part number
<b>VGE10078A</b>

**Plastic protective cap**



Part numbers	
Receptacle cap	Plug cap
<b>85005590A</b>	<b>85005599</b>

**Gasket**



Part numbers / neoprene
<b>UTFD14B</b>


**Extraction tool**




Part number
<b>51060210936</b>

**Color coding rings**


G for Green



Y for Yellow



R for Red



Part numbers	
Receptacles	Plugs
<b>UTS714CCRR</b>	<b>UTS614CCRR</b>
<b>UTS714CCRY</b>	<b>UTS614CCRY</b>
<b>UTS714CCRG</b>	<b>UTS614CCRG</b>

\* Add G for Green, Y for Yellow, R for Red



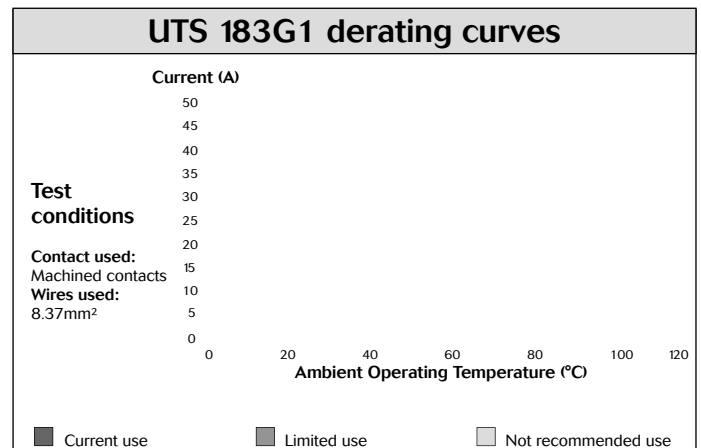
**3 + ground**  
**32A/300V**  
per IEC 61984

### Contacts

#8	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	16	82913601A <sup>(1)</sup>	82913600A <sup>(1)</sup>	-	6.5
		14	82913603A <sup>(1)</sup>	82913602A <sup>(1)</sup>	-	
		12	82913605A <sup>(1)</sup>	82913604A <sup>(1)</sup>	-	
		10	82913607A <sup>(1)</sup>	82913606A <sup>(1)</sup>	-	
		8	82913609A <sup>(1)</sup>	82913608A <sup>(1)</sup>	-	

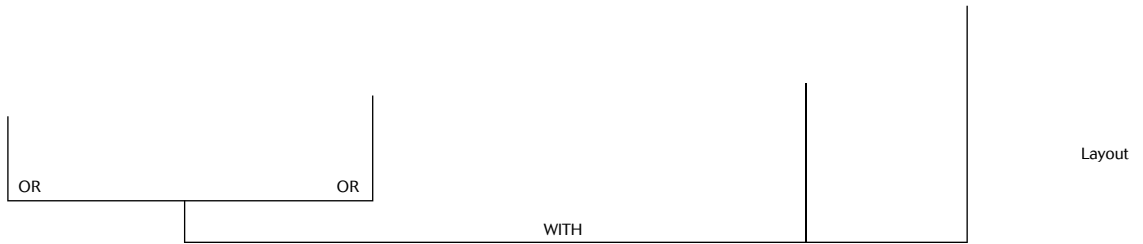
(1): Example of plating, for other plating see page 143

Electrical characteristics
<p><b>UL</b> 23A 600V UL94 V-0</p> <p><b>CSA</b> 23A 600V UL94 V-0</p> <p><b>IEC</b> 32A 300V 4kV 3</p>



# UTS Series

## 8E4/8D4



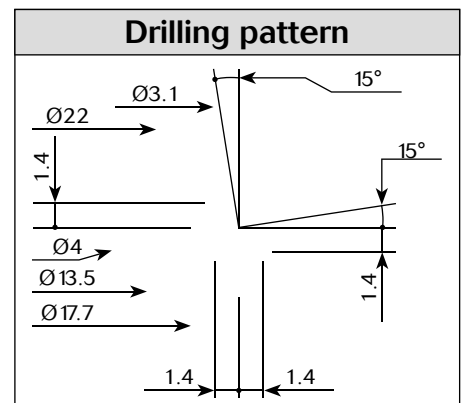
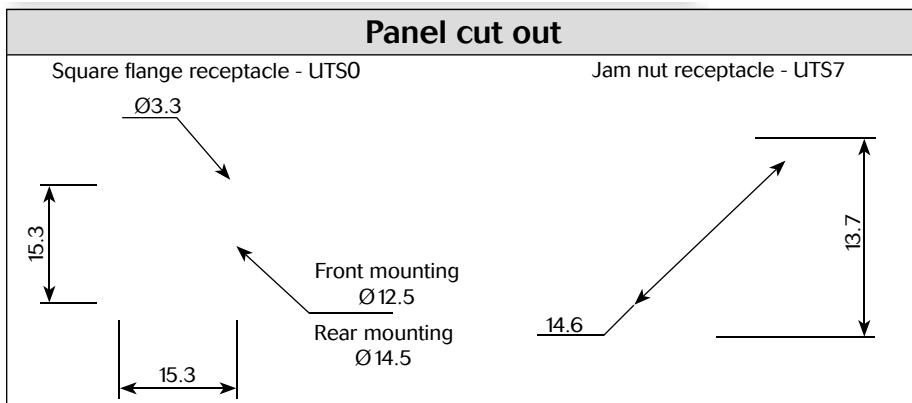
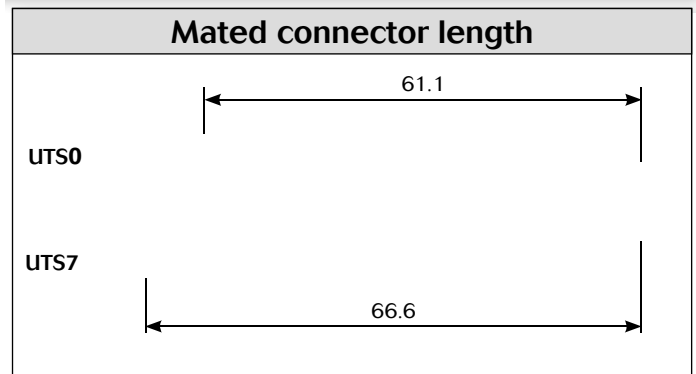
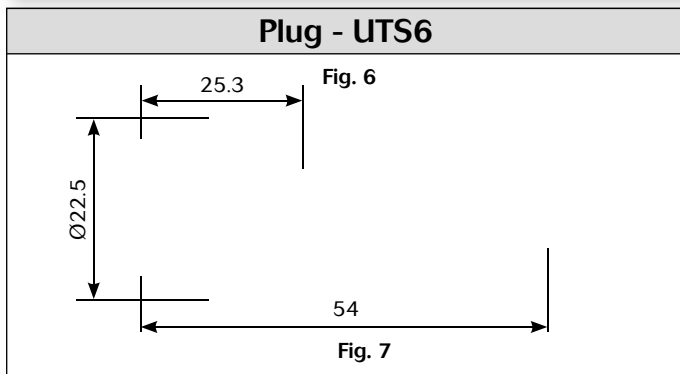
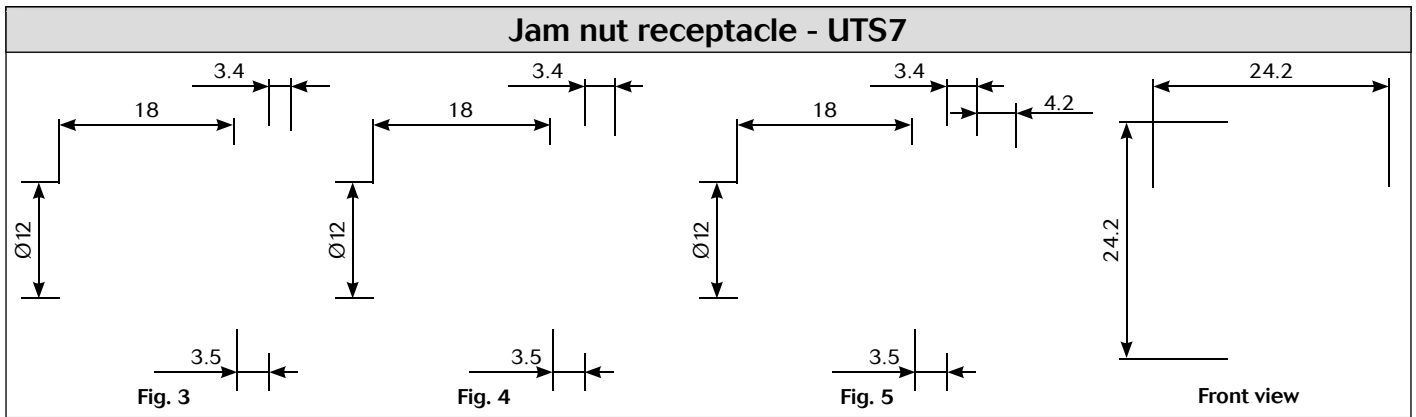
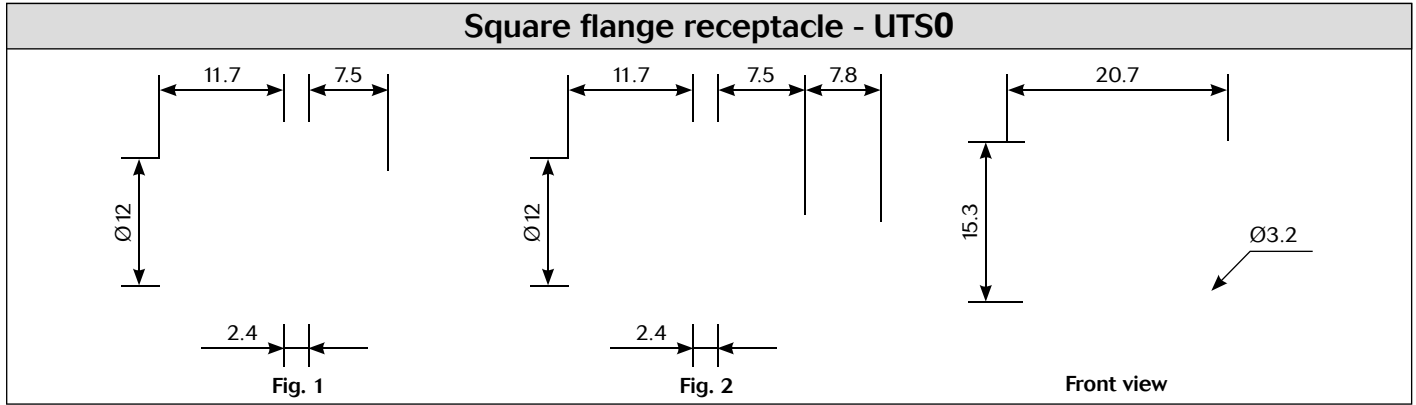
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS08E4P</b>	<b>UTS08E4S</b>
	Plug	Without (Fig.6)	<b>UTS68E4P</b>	<b>UTS68E4S</b>
		Cable gland (Fig.7)	<b>UTS6JC8E4P</b>	<b>UTS6JC8E4S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS78E4P</b>	<b>UTS78E4S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS08D4P</b>	<b>UTS08D4S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	<b>UTS78D4P32</b>	<b>UTS78D4S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	<b>UTS78D4P</b>	<b>UTS78D4S</b>

Sealed unmated



### Dimensions





### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS8DCG	UTS8DCGR

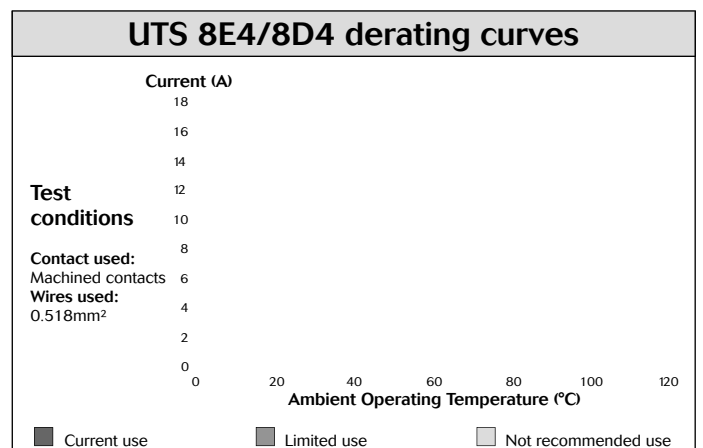
Square flange sealing cap
Metal terminal
Part number
UTS8DCGE

Plug protective cap
IP40
Part number
UTS68C

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005585A	85005594

Gasket
Part numbers / neoprene
UTFD11B

Electrical characteristics
<b>UL</b> 7A 250V UL94 HB
<b>CSA</b> 7A 250V UL94 HB
<b>IEC</b> 7A 32V 1.5kV 3



# UTS Series

8E4/8D4





# UTS Series

102W2 (2x#12 + 2x#20)



## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 67	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC102V2P</b>	<b>UTS1JC102V2S</b>
	Plug	Without (Fig.2)	<b>UTS6102V2P</b>	<b>UTS6102V2S</b>
	Plug	Cable gland (Fig.3)	<b>UTS6JC102V2P</b>	<b>UTS6JC102V2S</b>
	Jam nut receptacle	Without (Fig.4)	<b>UTS7102V2P</b>	<b>UTS7102V2S</b>

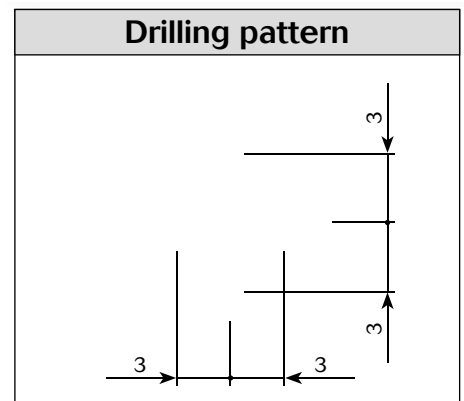
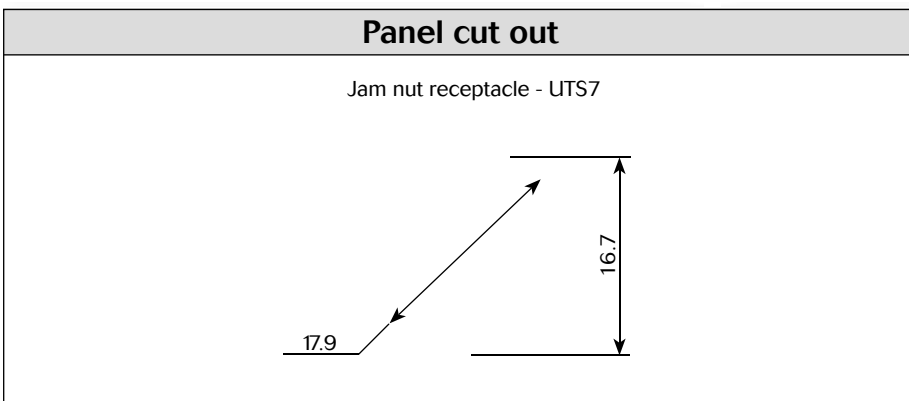
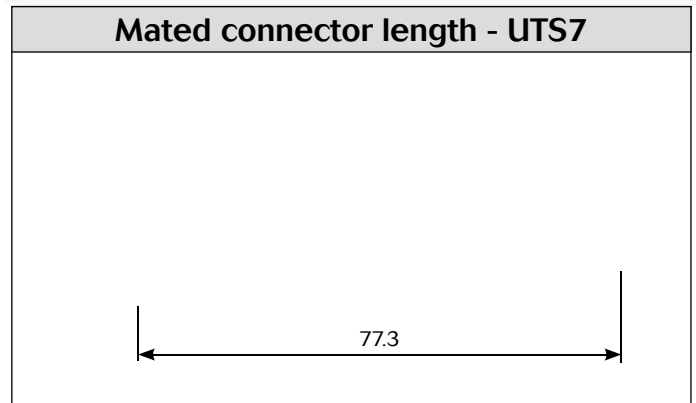
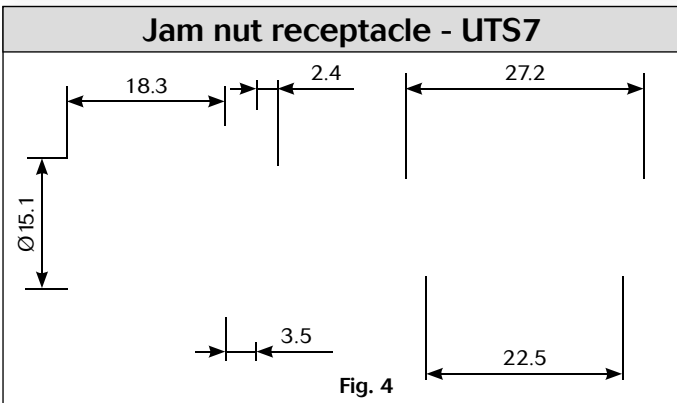
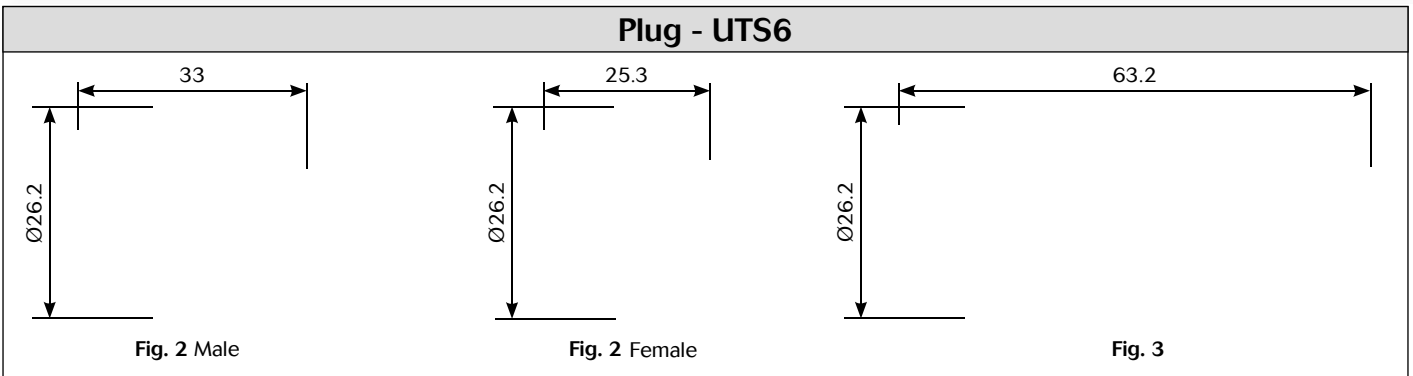
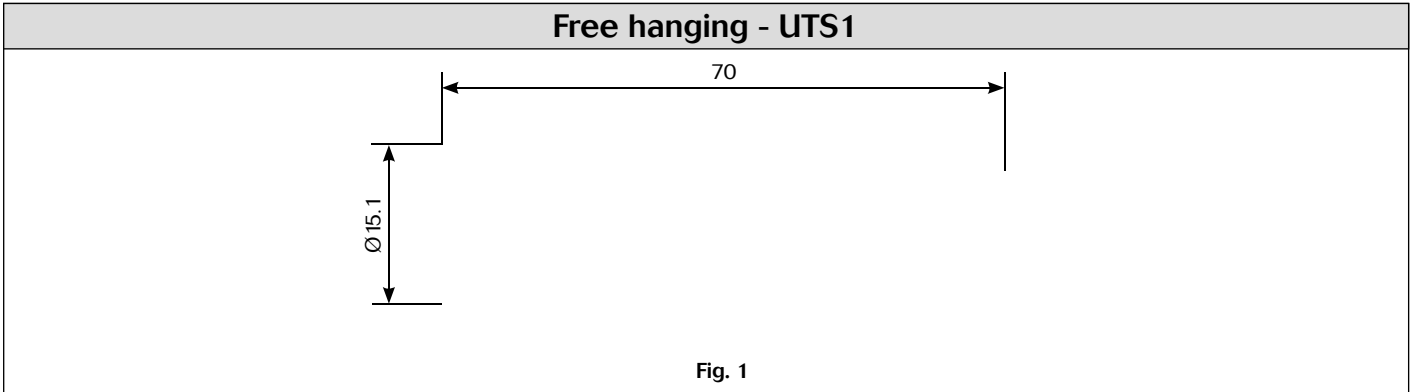
# UTS Series

102W2 (2x#12 + 2x#20)



4 contacts  
25A/150V  
per IEC 61984

## Dimensions



*Note: all dimensions are in mm*

# UTS Series

102W2 (2x#12 + 2x#20)



## Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS10DCG	UTS10DCGR

Plug sealing cap
Part number
UTS610DCG

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

Gasket
Part numbers / neoprene
UTFD12B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS710CCRR	UTS610CCRR
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRG	UTS610CCRG
* Add G for Green, Y for Yellow, R for Red		

Crimp tooling #20																				
Part number	Part number																			
SHANDLES	TOOLKIT																			
<table border="1"> <thead> <tr> <th>Contacts</th> <th>Contact size</th> <th>Part number of head</th> </tr> </thead> <tbody> <tr> <td>RM RC 24V8K<sup>(1)</sup></td> <td rowspan="6">Standard contacts #20 Ø 1mm</td> <td>S20RM</td> </tr> <tr> <td>RM RC 20V8K<sup>(1)</sup></td> <td>S20RM</td> </tr> <tr> <td>RM RC 18V8K<sup>(1)</sup></td> <td>S20RM</td> </tr> <tr> <td>SM SC 24V8S<sup>(2)</sup></td> <td>S20SCM20</td> </tr> <tr> <td>SM SC 24VL3S<sup>(3)</sup></td> <td>S20SCM20</td> </tr> <tr> <td>SM SC 20V8S<sup>(2)</sup></td> <td>S20SCM20</td> </tr> <tr> <td>SM SC 20VL3S<sup>(3)</sup></td> <td>S20SCM20</td> </tr> </tbody> </table>			Contacts	Contact size	Part number of head	RM RC 24V8K <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RM	RM RC 20V8K <sup>(1)</sup>	S20RM	RM RC 18V8K <sup>(1)</sup>	S20RM	SM SC 24V8S <sup>(2)</sup>	S20SCM20	SM SC 24VL3S <sup>(3)</sup>	S20SCM20	SM SC 20V8S <sup>(2)</sup>	S20SCM20	SM SC 20VL3S <sup>(3)</sup>	S20SCM20
Contacts	Contact size	Part number of head																		
RM RC 24V8K <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RM																		
RM RC 20V8K <sup>(1)</sup>		S20RM																		
RM RC 18V8K <sup>(1)</sup>		S20RM																		
SM SC 24V8S <sup>(2)</sup>		S20SCM20																		
SM SC 24VL3S <sup>(3)</sup>		S20SCM20																		
SM SC 20V8S <sup>(2)</sup>		S20SCM20																		
SM SC 20VL3S <sup>(3)</sup>	S20SCM20																			
<small>(1): example of plating, for other plating see UTS catalog page 148                      (2): contact reeled (3): loose contact</small>																				

Crimp tooling #12	
Part number hand tool	Part number positioner + locator setting
MB17	VGE10078A
	Part number extraction tool
	51060210924

# UTS Series

102W2 (2x#12 + 2x#20)



4 contacts  
25A/150V  
per IEC 61984

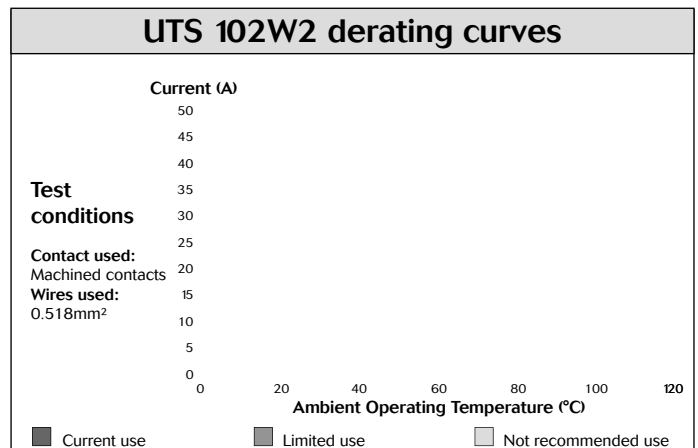
## Contacts

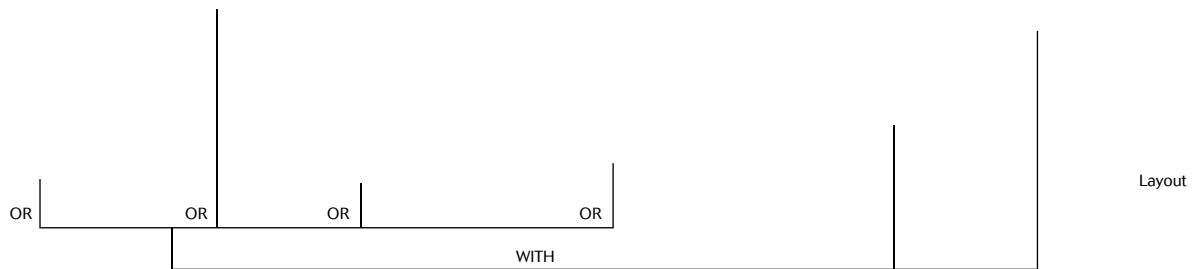
#20	Contact type	AWG	Part number		Max insulator Ø
			Male	Female	
Crimp	Machined	26-24	RM24V8K <sup>(1)</sup>	RC24V8K <sup>(1)</sup>	1.58
		22-20	RM20V8K <sup>(1)</sup>	RC20V8K <sup>(1)</sup>	1.58
		20-18	RM18V8K <sup>(1)</sup>	RC18V8K <sup>(1)</sup>	2.1
	stamped & formed reeled contacts	26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	0.89-1.58
		26-24	SM24V8S26 <sup>(2)</sup>	SC24V8S25 <sup>(2)</sup>	0.89-1.58
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	1.17-2.08
		22-20	SM20V8S26 <sup>(2)</sup>	SC20V8S25 <sup>(2)</sup>	1.17-2.08
	PCB	Machined <sup>(3)</sup>	-	RM5016K	RCM5016K
#12					
Crimp	Machined	22	82911457NA	82911456A	4.9
		20	82911459NA	82911458A	
		18	82911461NA	82911460A	
		16	82911463NA	82911462A	
		14	82911465NA	82911464A	
		12	82911467NA	82911466A	

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1-TK6  
 (3): For dimensions see page 148

Mechanics

Electrical characteristics
<p><b>UL</b> 20A 500V UL94 V-0</p> <p><b>CSA</b> 18A 500V UL94 V-0</p> <p><b>IEC</b> 25A 150V 2.5kV 3 Temperature elevation: 50°C</p>



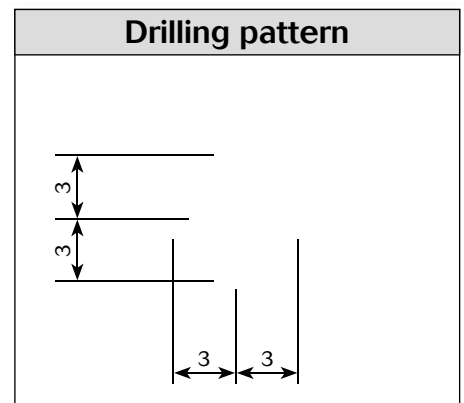
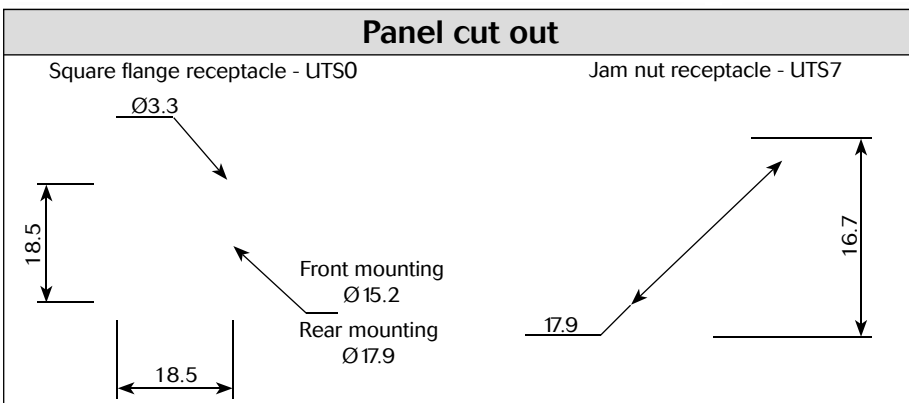
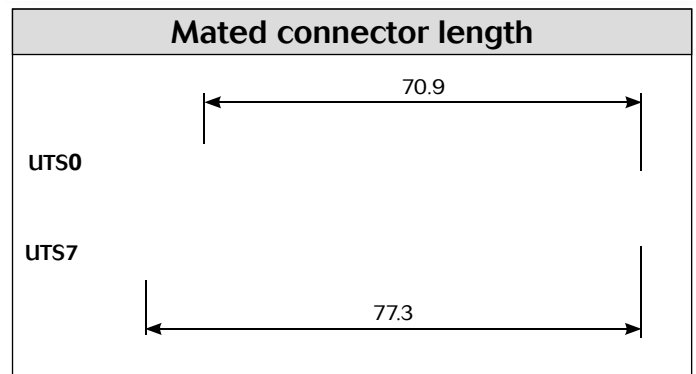
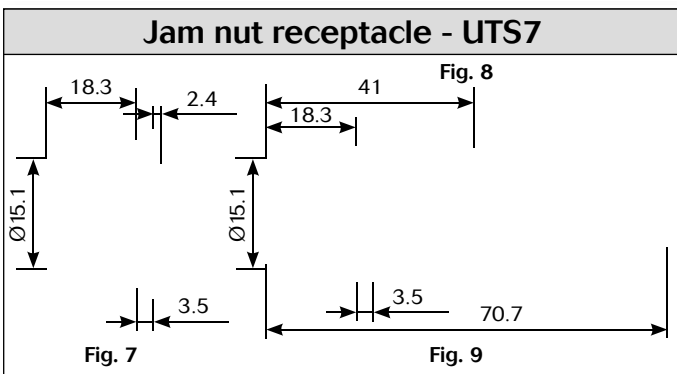
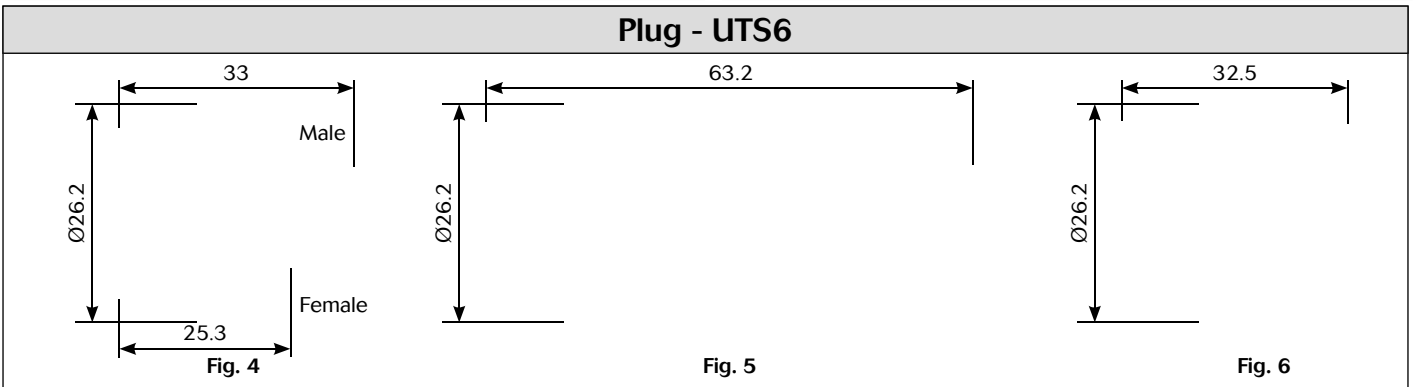
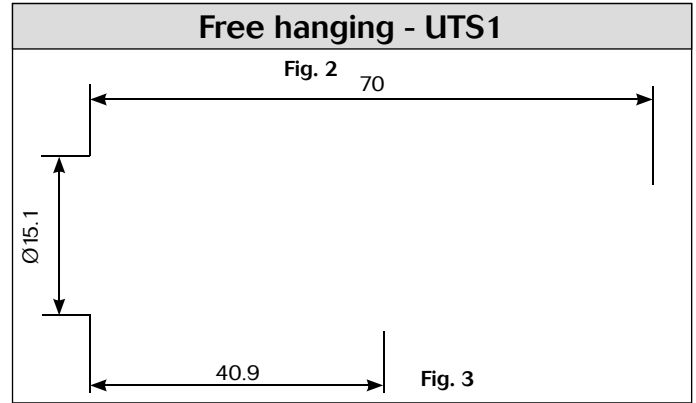
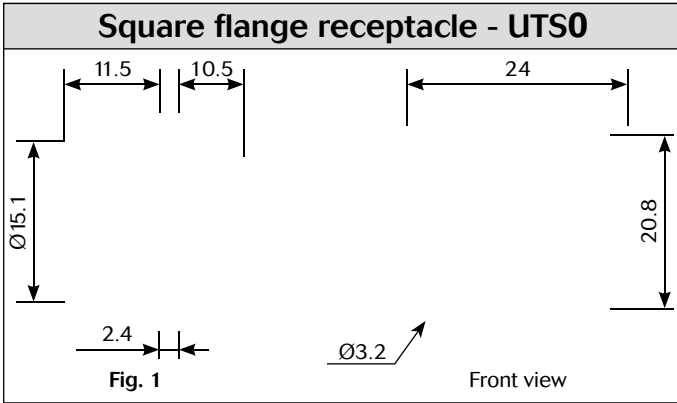


## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contact supply separately see next page 71	Square flange receptacle	Without (Fig.1)	<b>UTS0104P</b>	<b>UTS0104S</b>
	Free hanging receptacle	Cable gland and grommet (Fig.2)	<b>UTS1GJC104P</b>	
	Free hanging receptacle	Nut and grommet (Fig.3)	<b>UTS1GN104P</b>	
	Free hanging receptacle	Cable gland (Fig.2)	<b>UTS1JC104P</b>	<b>UTS1JC104S</b>
	Plug	Without (Fig.4)	<b>UTS6104P</b>	<b>UTS6104S</b>
	Plug	Cable gland and grommet (Fig.5)		<b>UTS6GJC104S</b>
	Plug	Nut and grommet (Fig.6)		<b>UTS6GN104S</b>
	Plug	Cable gland (Fig.5)	<b>UTS6JC104P</b>	<b>UTS6JC104S</b>
	Jam nut receptacle	Without (Fig.7)	<b>UTS7104P</b>	<b>UTS7104S</b>
	Jam nut receptacle	Cable gland and grommet (Fig.9)	<b>UTS7GJC104P</b>	
	Jam nut receptacle	Nut and grommet (Fig.8)	<b>UTS7GN104P</b>	



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS10DCG	UTS10DCGR

Handle
Part number
SHANGLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS610DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS10DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

Gasket
Part numbers / neoprene
UTFD12B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS710CCRR	UTS610CCRR
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRG	UTS610CCRG
* Add G for Green, Y for Yellow, R for Red		

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24MØK <sup>(1)</sup>		S16RCM20	
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4	
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 16ML1TK6 <sup>(1)</sup>		S16SCML11	
RMDXK10D28K		Coaxial contacts	MI0S-1J
RCDXK1D28K			MI0S-1J
RM RC DX60xxD28K	MI0S-1J		
RM RC DXK10D28 + yor k090	MI0S-1J		
RM RC DX60xxD28		MI0S-1J	

(1): example of plating, for other plating see UTS catalog page 143



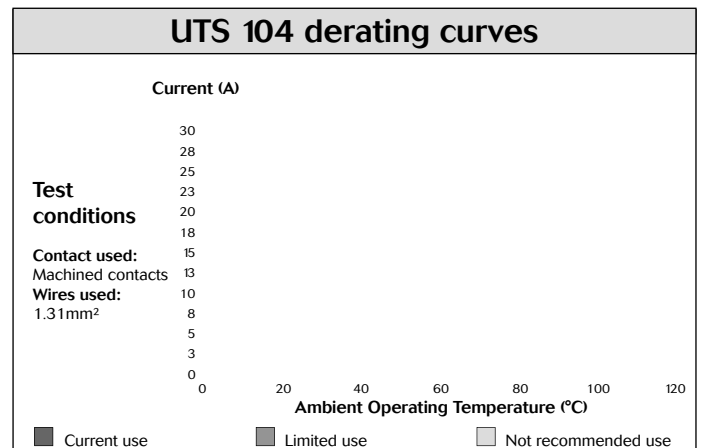
4 contacts  
13A/150V  
per IEC 61984

### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MI K <sup>(1)</sup>	RC24MI K <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16MI 23K <sup>(1)</sup>	RC16MI 23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14MI 50K <sup>(1)</sup>	RC14MI 50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MI 80K <sup>(1)</sup>	RC14MI 80K <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
18-16		SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-	
14		SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	-	RMDXK10D28	RCDXK1 D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK10D28 + yor k090	RCDXK1 D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1- TK6  
 (3): For dimensions see page 148

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> 13A 150V 2.5kV 3</p>





# UTS Series

## 14E5/14D5



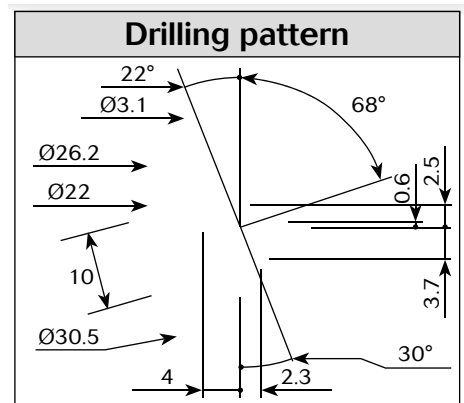
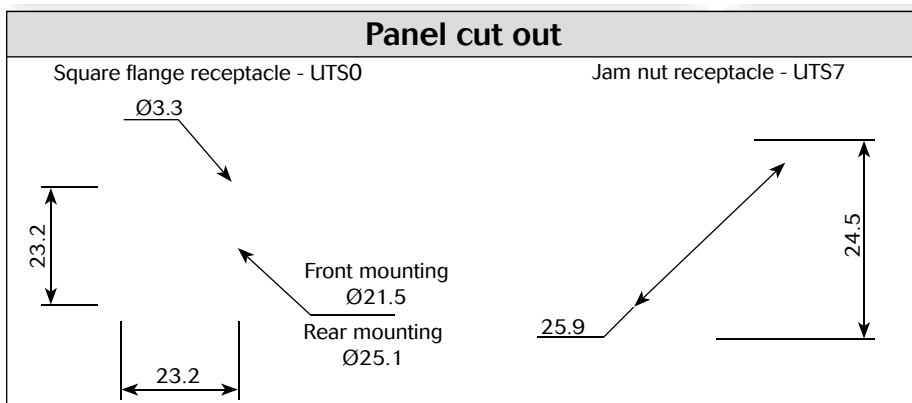
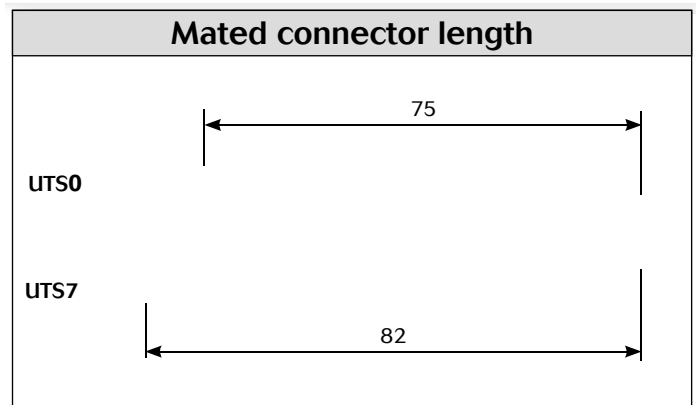
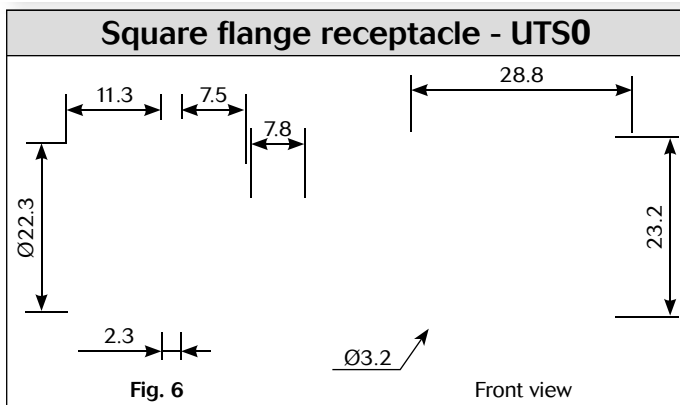
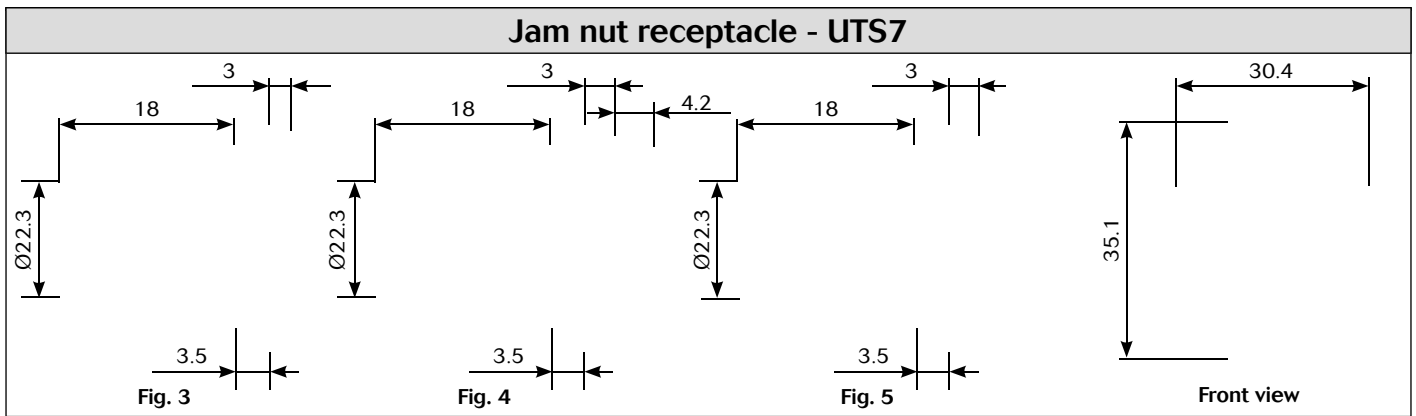
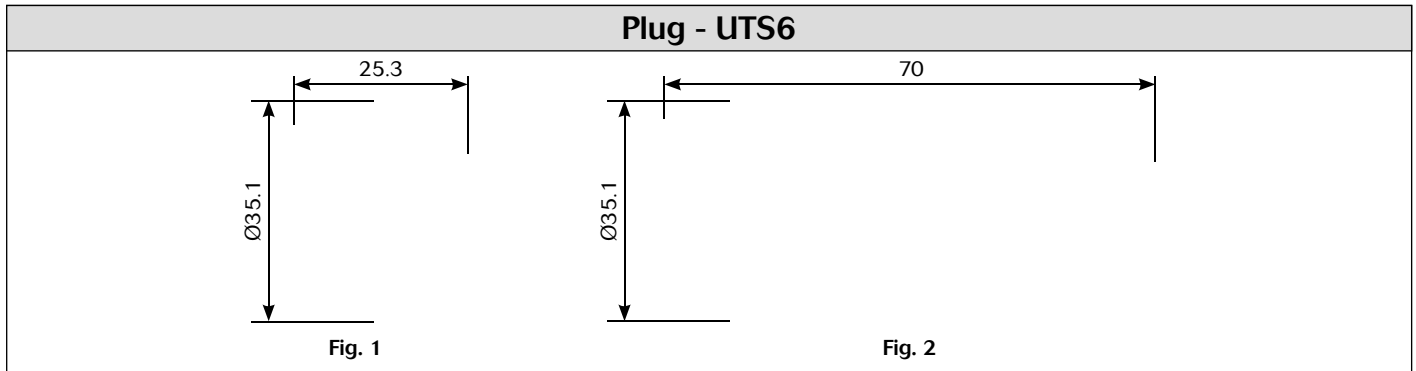
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS014E5P</b>	<b>UTS014E5S</b>
	Plug	Without (Fig.1)	<b>UTS614E5P</b>	<b>UTS614E5S</b>
		Cable gland (Fig.2)	<b>UTS6JC14E5P</b>	<b>UTS6JC14E5S</b>
Jam nut receptacle	Without (Fig.3)	<b>UTS714E5P</b>	<b>UTS714E5S</b>	
PCB contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS014D5P</b>	<b>UTS014D5S</b>
	Jam nut receptacle with hold down clips	Without (Fig.4)	<b>UTS714D5P32</b>	<b>UTS714D5S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS714D5P</b>	<b>UTS714D5S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm



### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS14DCG	UTS14DCGR

Plug sealing cap
Part number
UTS614DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS14DCGE	

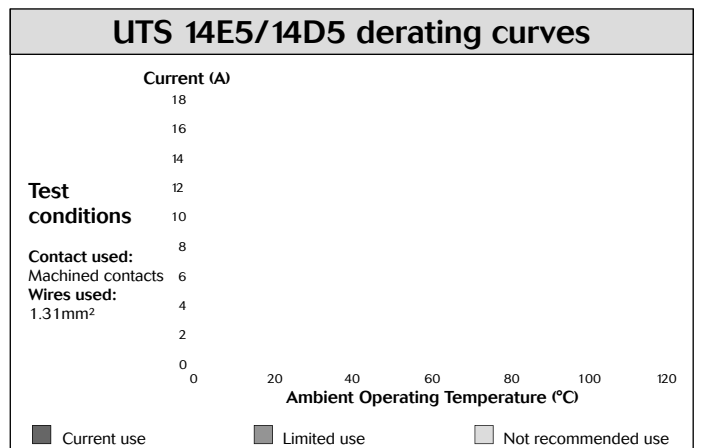
Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

Gasket
Part numbers / neoprene
UTFD14B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tr> <td>UTS714CCRR</td> <td>UTS614CCRR</td> </tr> <tr> <td>UTS714CCRY</td> <td>UTS614CCRY</td> </tr> <tr> <td>UTS714CCRG</td> <td>UTS614CCRG</td> </tr> </table>	Part numbers		Receptacles	Plugs	UTS714CCRR	UTS614CCRR	UTS714CCRY	UTS614CCRY	UTS714CCRG	UTS614CCRG
Part numbers											
Receptacles		Plugs									
UTS714CCRR	UTS614CCRR										
UTS714CCRY	UTS614CCRY										
UTS714CCRG	UTS614CCRG										
y for Yellow											
R for Red											

\* Add G for Green, Y for Yellow, R for Red

Electrical characteristics
<b>UL</b> 12A 650V UL94 HB
<b>CSA</b> 12A 650V UL94 HB
<b>IEC</b> 16A 150V 2.5kV 3



# UTS Series

14E5/14D5



# UTS Series

103W3 (3x#16 + 3x#20)



## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 79	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC103V8P</b>	<b>UTS1JC103V8S</b>
	Plug	Without (Fig.2)	<b>UTS6103V8P</b>	<b>UTS6103V8S</b>
	Plug	Cable gland (Fig.3)	<b>UTS6JC103V8P</b>	<b>UTS6JC103V8S</b>
	Jam nut receptacle	Without (Fig.4)	<b>UTS7103V8P</b>	<b>UTS7103V8S</b>
PCB contacts supply separately see page 79	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	<b>UTS7103V8P</b>	<b>UTS7103V8S</b>

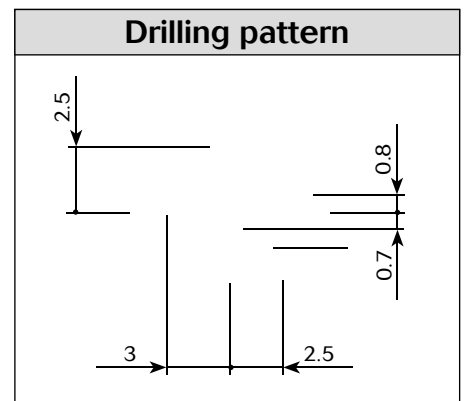
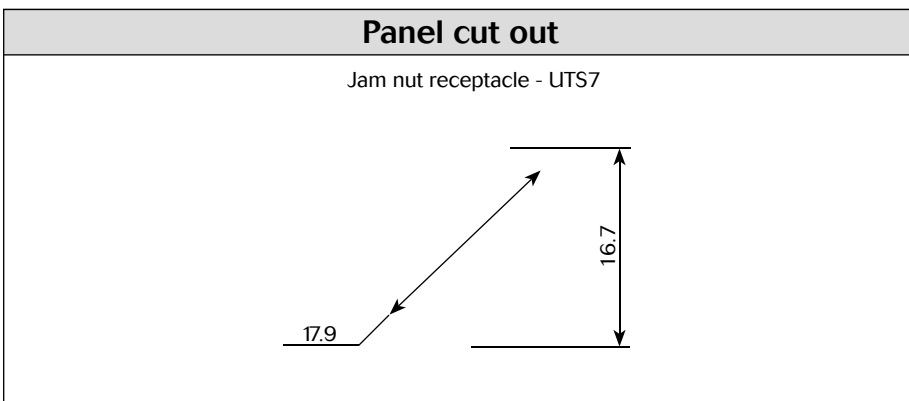
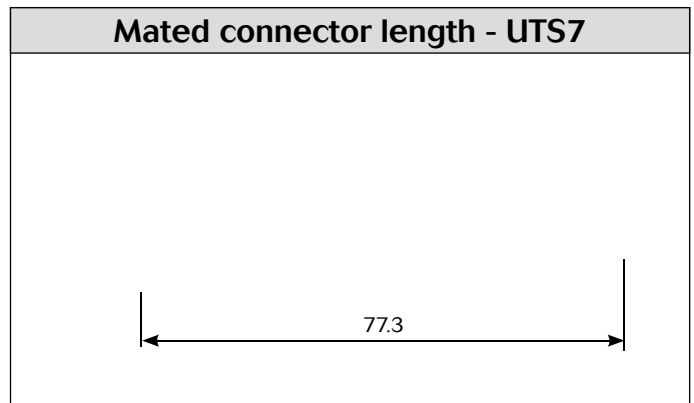
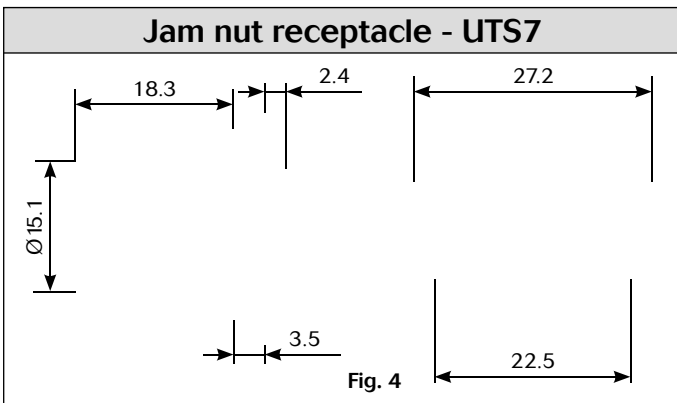
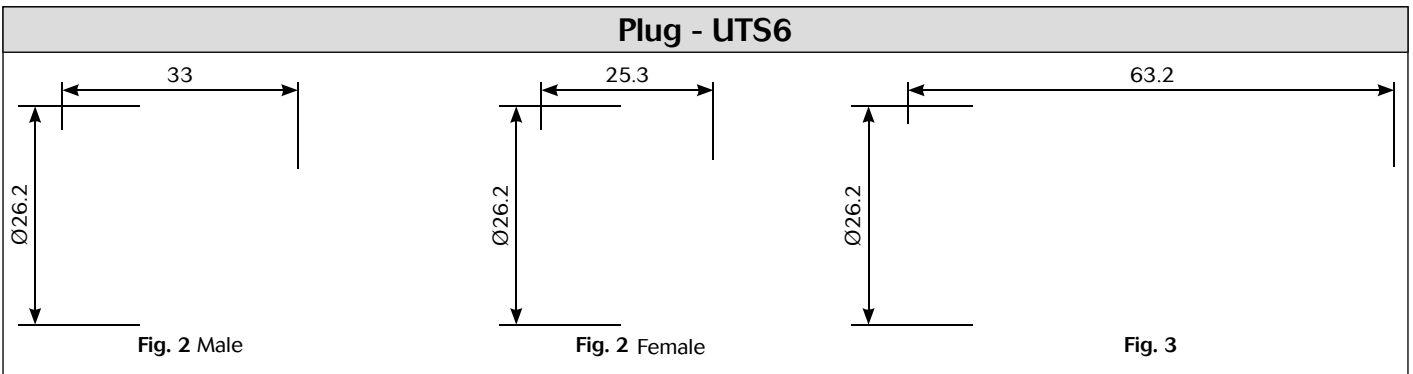
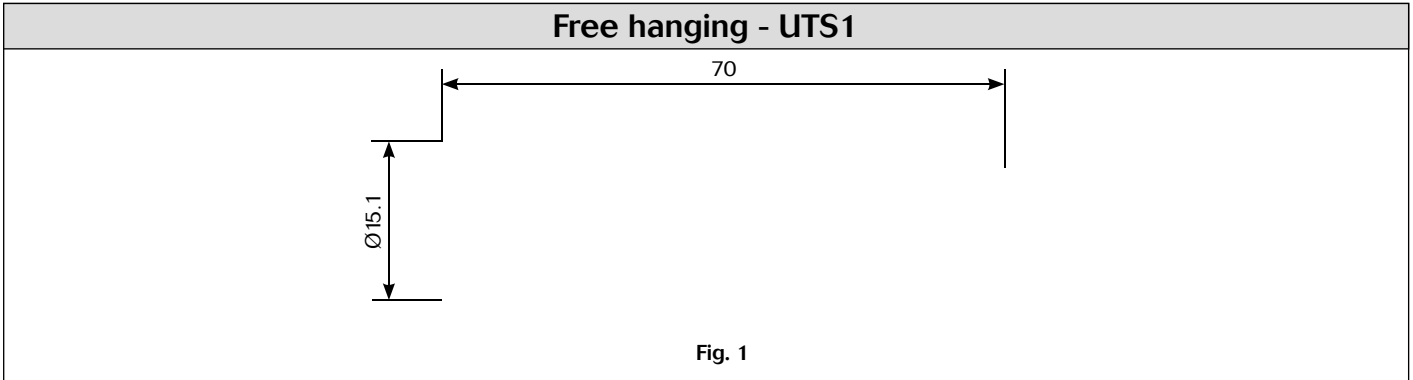
# UTS Series

103W3 (3x#16 + 3x#20)



6 contacts  
5A/32V  
per IEC 61984

## Dimensions



*Note: all dimensions are in mm*

# UTS Series

103W3 (3x#16 + 3x#20)



## Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS10DCG	UTS10DCGR

Handle
Part number
SHANGLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS610DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS10DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

Gasket
Part numbers / neoprene
UTFD12B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS710CCRR	UTS610CCRR
y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRG	UTS610CCRG

\* Add G for Green, Y for Yellow, R for Red

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MIK <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24MØK <sup>(1)</sup>		S16RCM20	
RM RC 20MI3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14MØK <sup>(1)</sup>		S16RCMI 4	
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	MI 0S- 1J
RCDXK1D28K			MI 0S- 1J
RM RC DX60xxD28K	MI 0S- 1J		
RM RC DXK10D28 + yor k090	MI 0S- 1J		
RM RC DX60xxD28	MI 0S- 1J		
RM RC 24VØK <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RCM	
RM RC 20VØK <sup>(1)</sup>		S20RCM	
RM RC 18VØK <sup>(1)</sup>		S20RCM	
SM SC 24VØS <sup>(2)</sup>		S20SCM20	
SM SC 24VØ3S <sup>(3)</sup>		S20SCM20	
SM SC 20VØS <sup>(2)</sup>		S20SCM20	
SM SC 20VØ3S <sup>(3)</sup>		S20SCM20	

(1): example of plating, for other plating see UTS catalog page 143  
 (2): contact reeled  
 (3): loose contact

# UTS Series

103W3 (3x#16 + 3x#20)



6 contacts  
5A/32V  
per IEC 61984

## Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MI K <sup>(1)</sup>	RC24MI K <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16MI 23K <sup>(1)</sup>	RC16MI 23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14MI 50K <sup>(1)</sup>	RC14MI 50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MI 80K <sup>(1)</sup>	RC14MI 80K <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
18-16		SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-	
14		SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	-	RMDXK1 0D28	RCDXK1 D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK1 0D28 + yor k090	RCDXK1 D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-
#20						
Crimp	Machined	26-24	RM24V8K <sup>(1)</sup>	RC24V8K <sup>(1)</sup>	-	1.58
		22-20	RM20V8K <sup>(1)</sup>	RC20V8K <sup>(1)</sup>	-	1.58
		20-18	RM18V8K <sup>(1)</sup>	RC18V8K <sup>(1)</sup>	-	2.1
	Stamped & formed reeled contacts	26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		26-24	SM24V8S26 <sup>(2)</sup>	SC24V8S25 <sup>(2)</sup>	-	0.89-1.58
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
		22-20	SM20V8S26 <sup>(2)</sup>	SC20V8S25 <sup>(2)</sup>	-	1.17-2.08
PCB	Machined <sup>(3)</sup>	-	RMV5016K	RCV5016K	-	-

(1): Example of plating, for other plating see page 143

(2): Loose piece contact available if putting L. Example: SM20M1-TK6

(3): For dimensions see page 148

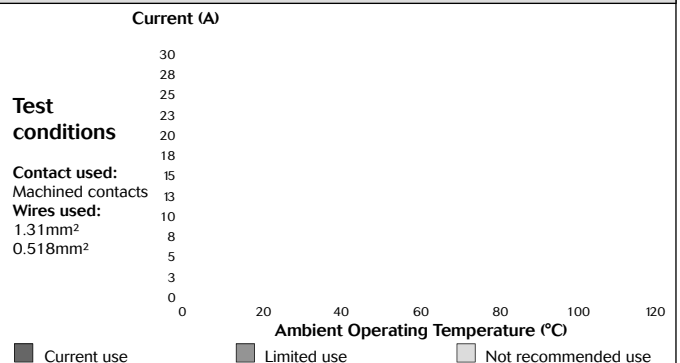
### Electrical characteristics

UL  
10A 500V UL94 V-0

CSA  
7A 500V UL94 V-0

IEC  
5A 32V 1.5kV 3  
Temperature elevation: 50°C

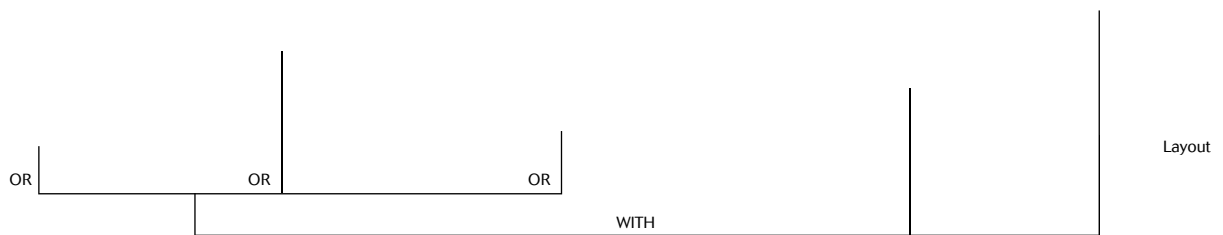
### UTS 103W3 derating curves





# UTS Series

## 106 - 10E6/10D6



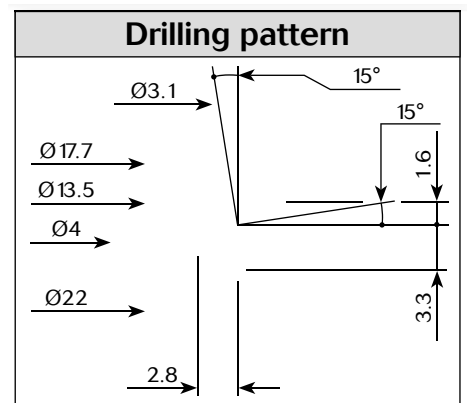
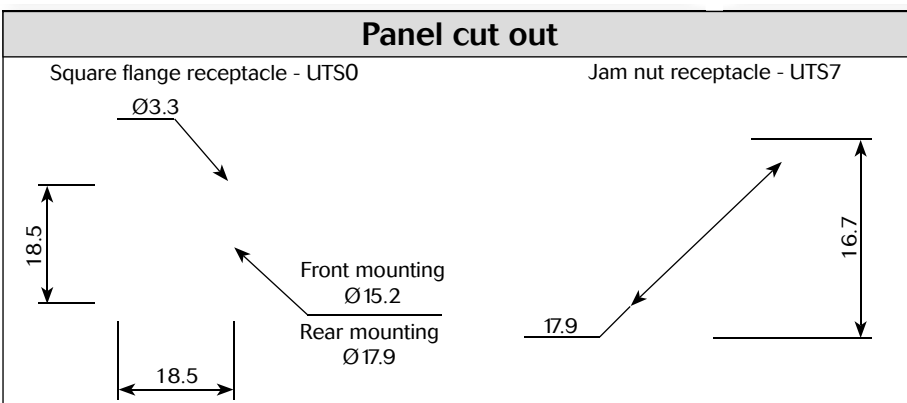
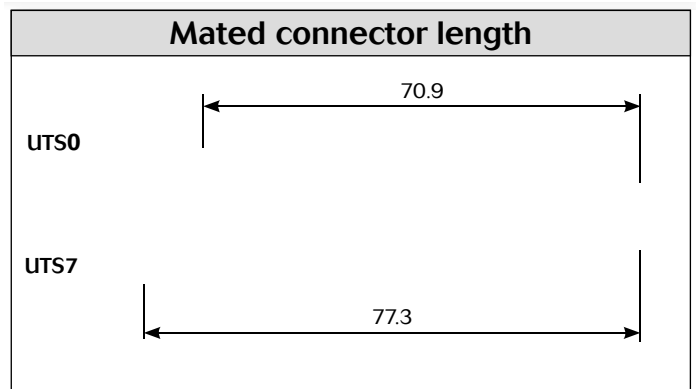
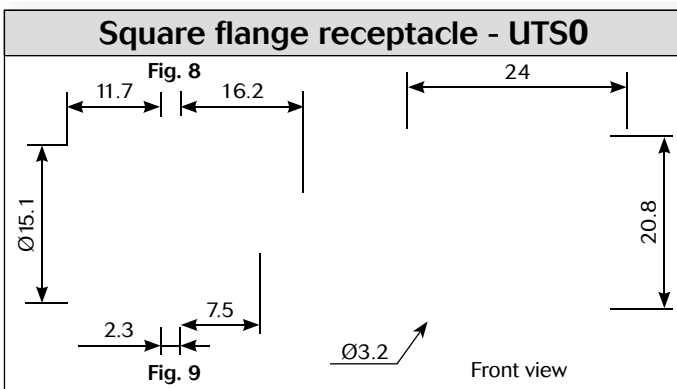
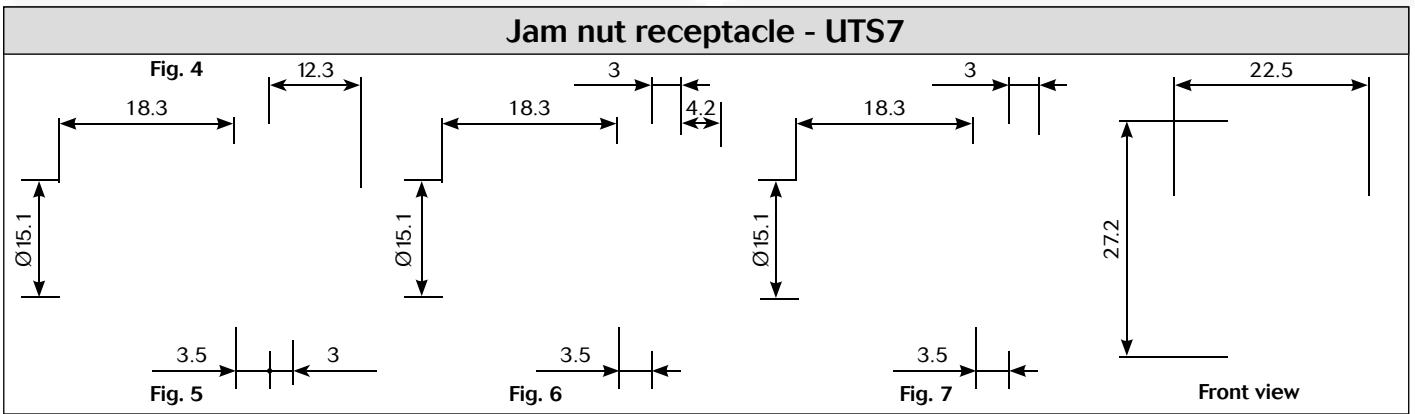
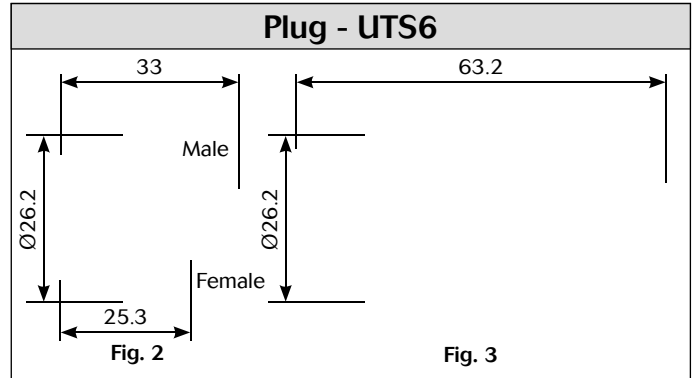
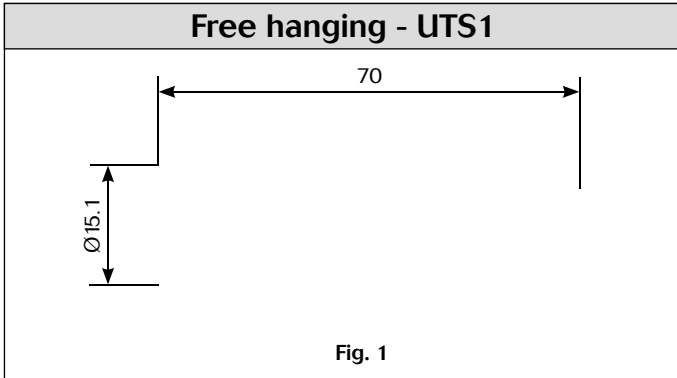
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 83	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC106P</b>	<b>UTS1JC106S</b>
	Plug	Without (Fig.2)	<b>UTS6106P</b>	<b>UTS6106S</b>
	Plug	Cable gland (Fig.3)	<b>UTS6JC106P</b>	<b>UTS6JC106S</b>
	Jam nut receptacle	Without (Fig.4)	<b>UTS7106P</b>	<b>UTS7106S</b>
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.9)	<b>UTS010E6P</b>	<b>UTS010E6S</b>
	Plug	Without (Fig.2)	<b>UTS610E6P</b>	<b>UTS610E6S</b>
		Cable gland (Fig.3)	<b>UTS6JC10E6P</b>	<b>UTS6JC10E6S</b>
	Jam nut receptacle	Without (Fig.5)	<b>UTS710E6P</b>	<b>UTS710E6S</b>
PCB contacts supply separately see page 83	Jam nut receptacle	Without (Fig.4)	<b>UTS7106P</b>	<b>UTS7106S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.8)	<b>UTS010D6P</b>	<b>UTS010D6S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.6)	<b>UTS710D6P32</b>	<b>UTS710D6S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	<b>UTS710D6P</b>	<b>UTS710D6S</b>

Sealed unmatred



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS10DCG	UTS10DCGR

Handle
Part number
SHANDLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS610DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS10DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

Gasket
Part numbers / neoprene
UTFD12B

Crimp tooling		
Contacts	Contact size	Part number of head
RM RC 24V8K <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RM
RM RC 20V8K <sup>(1)</sup>		S20RM
RM RC 18V8K <sup>(1)</sup>		S20RM
SM SC 24V8S <sup>(2)</sup>		S20SCM20
SM SC 24VL3S <sup>(3)</sup>		S20SCM20
SM SC 20V8S <sup>(2)</sup>		S20SCM20
SM SC 20VL3S <sup>(3)</sup>		S20SCM20

(1): example of plating, for other plating see UTS catalog page 143  
 (2): contact reeled  
 (3): loose contact

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS710CCRR</td> <td>UTS610CCRR</td> </tr> <tr> <td>UTS710CCRY</td> <td>UTS610CCRY</td> </tr> <tr> <td>UTS710CCRG</td> <td>UTS610CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS710CCRR	UTS610CCRR	UTS710CCRY	UTS610CCRY	UTS710CCRG	UTS610CCRG
Part numbers											
Receptacles		Plugs									
UTS710CCRR		UTS610CCRR									
UTS710CCRY	UTS610CCRY										
UTS710CCRG	UTS610CCRG										
y for Yellow											
R for Red											
	* Add G for Green, Y for Yellow, R for Red										

# UTS Series

## 106 - 10E6/10D6



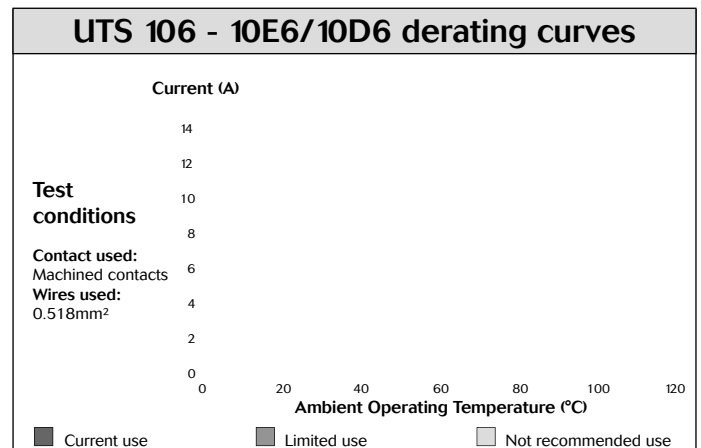
6 contacts  
7A/32V  
per IEC 61984

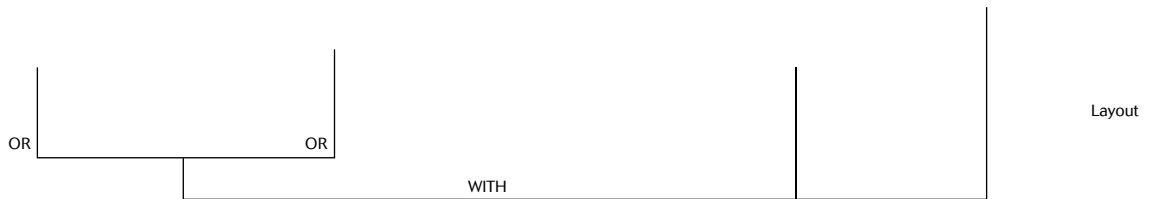
### Contacts

#20	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	26-24	RM24V8K <sup>(1)</sup>	RC24V8K <sup>(1)</sup>	-	1.58
		22-20	RM20V8K <sup>(1)</sup>	RC20V8K <sup>(1)</sup>	-	1.58
		20-18	RM18V8K <sup>(1)</sup>	RC18V8K <sup>(1)</sup>	-	2.1
	stamped & formed reeled contacts	26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
	PCB	Machined <sup>(3)</sup>	-	RM5016K	RC5016K	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1-TK6  
 (3): For dimensions see page 148

Electrical characteristics	
<b>UTS 106</b> UL 5A 250V UL94 V-0  CSA 4A 250V UL94 V-0	<b>UTS 10E6/10D6</b> UL 6A 250V UL94 HB  CSA 6A 250V UL94 HB  IEC 7A 32V 1.5kV 3





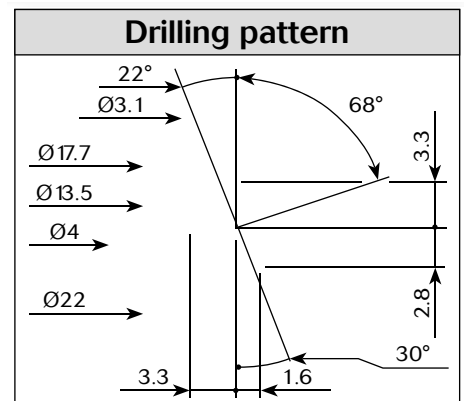
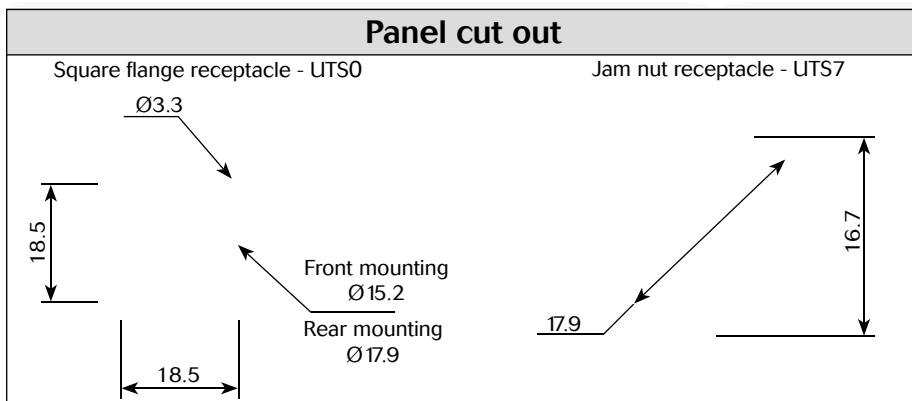
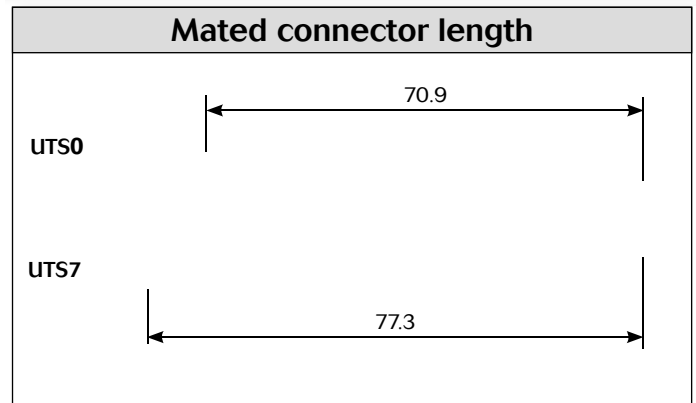
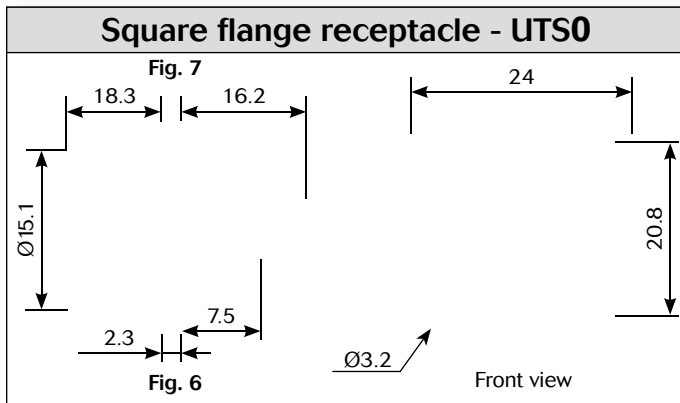
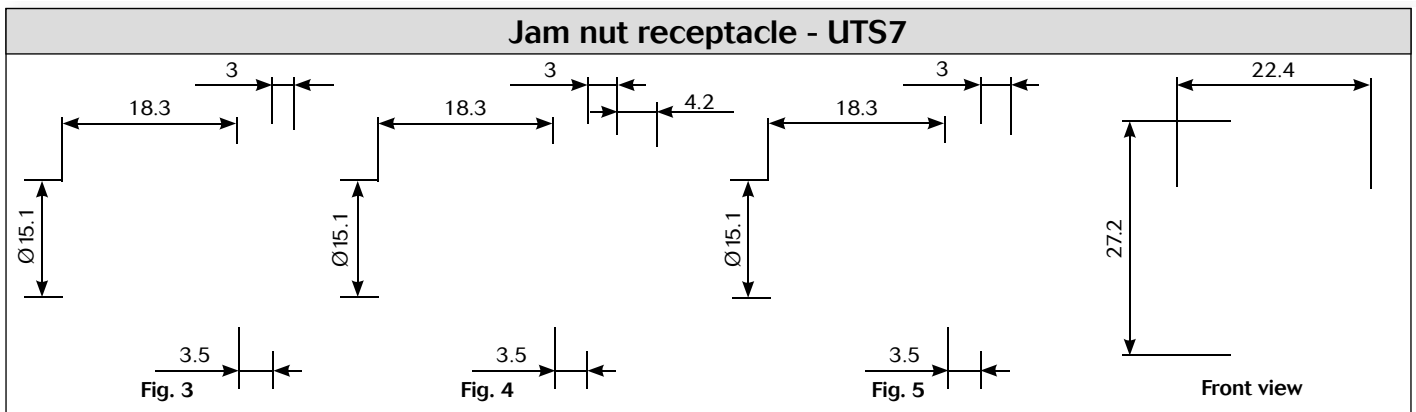
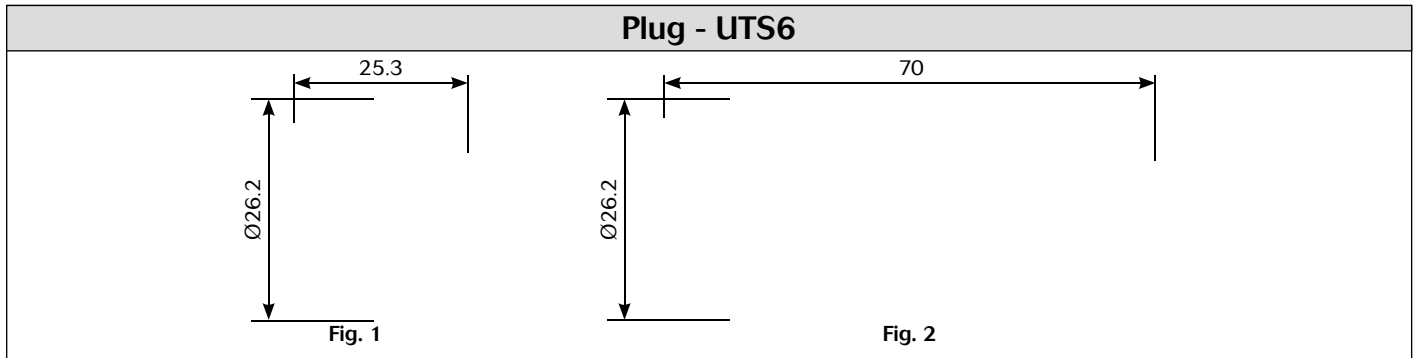
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS010E98P</b>	<b>UTS010E98S</b>
	Plug	Without (Fig.1)	<b>UTS610E98P</b>	<b>UTS610E98S</b>
		Cable gland (Fig.2)	<b>UTS6JC10E98P</b>	<b>UTS6JC10E98S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS710E98P</b>	<b>UTS710E98S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS010D98P</b>	<b>UTS010D98S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS710D98P32</b>	<b>UTS710D98S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS710D98P</b>	<b>UTS710D98S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm



### Accessories

#### Jam nut sealing caps

Metal terminal

Part number	Part number
UTS10DCG	UTS10DCGR

#### Plug protective cap

Part number
UTS610DCG

#### Square flange sealing cap

Metal terminal

Part number
UTS10DCGE

#### Plastic protective cap

Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

#### Gasket

Part numbers / neoprene
UTFD12B

#### Color coding rings

G for Green

y for Yellow

R for Red

Part numbers	
Receptacles	Plugs
UTS710CCRR	UTS610CCRR
UTS710CCRY	UTS610CCRY
UTS710CCRG	UTS610CCRG

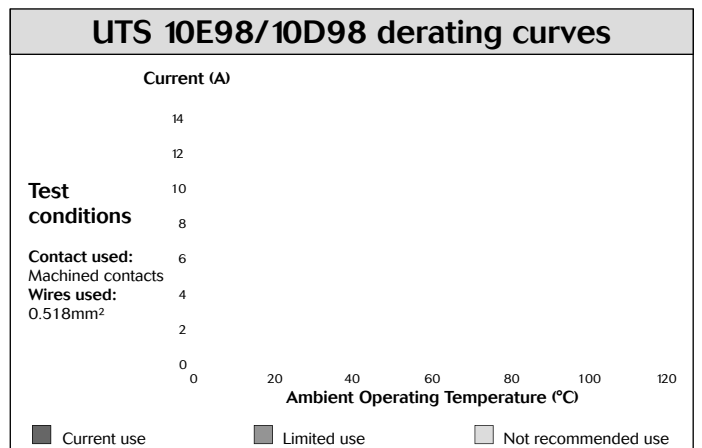
\* Add G for Green, Y for Yellow, R for Red

#### Electrical characteristics

**UL**  
6A 250V UL94 HB

**CSA**  
6A 250V UL94 HB

**IEC**  
7A 50V 1.5kV 3



UTS Series  
10E98/10D98





# UTS Series

## 147 - 14E7/14D7



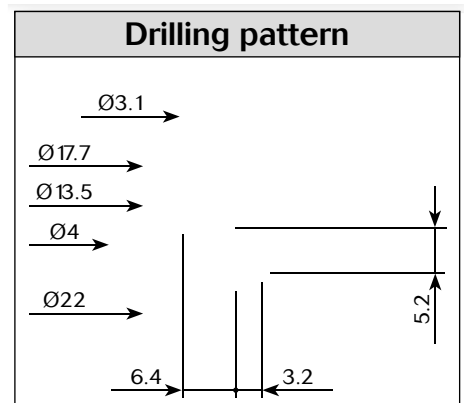
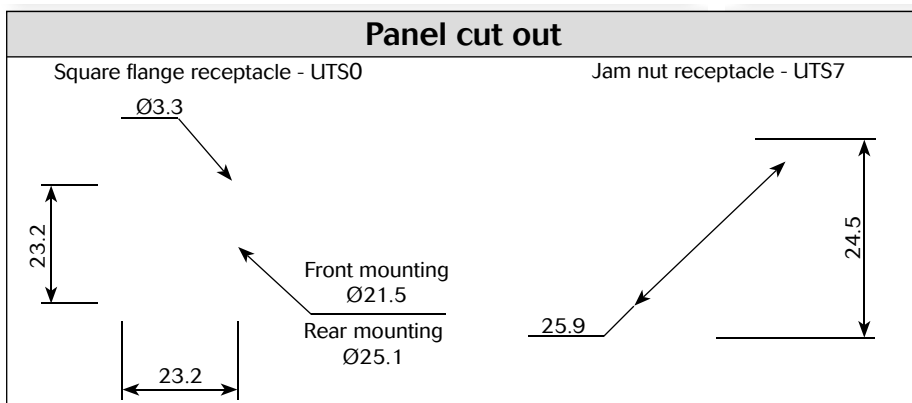
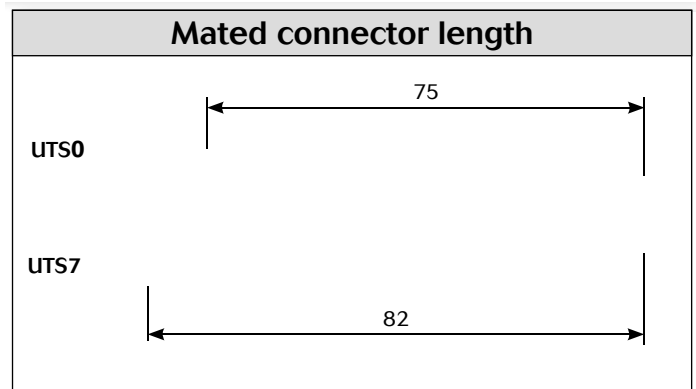
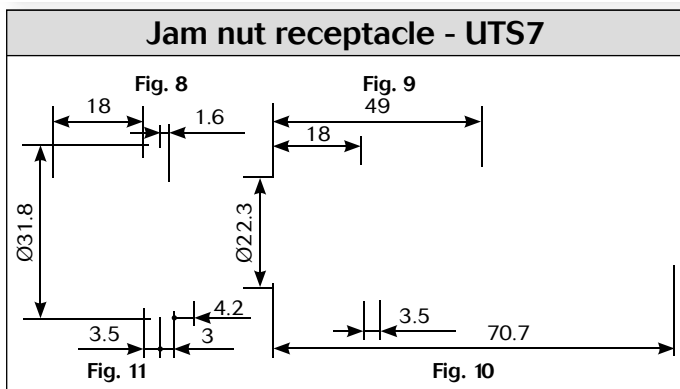
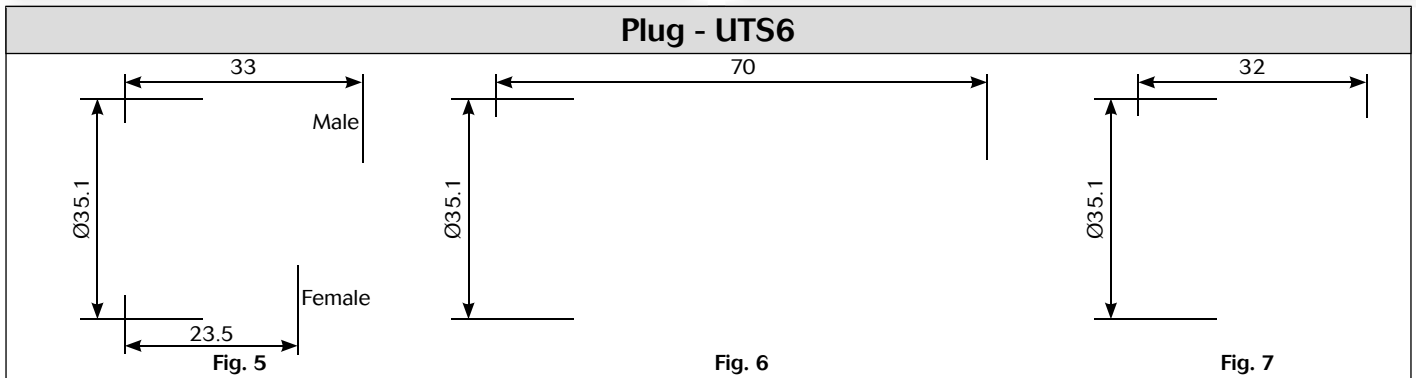
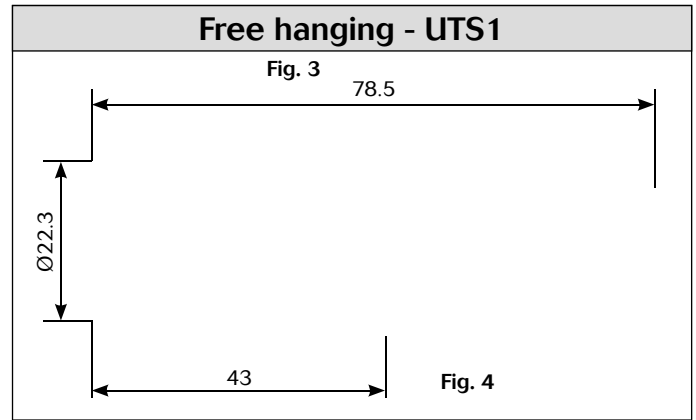
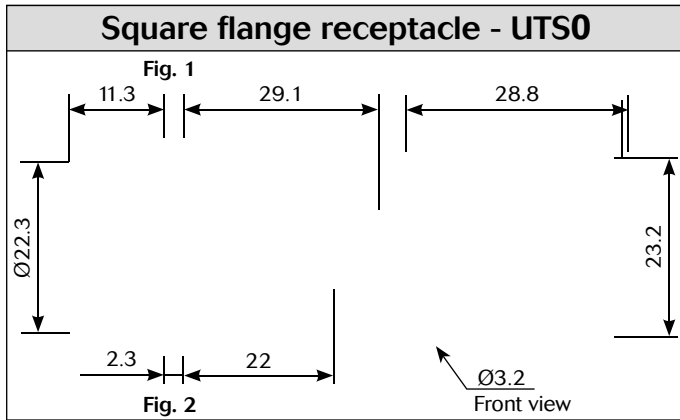
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 91	Square flange receptacle	Without (Fig.2)	<b>UTS0147P</b>	
	Free hanging receptacle	Cable gland and grommet (Fig.3)	<b>UTS1GJC147P</b>	
	Free hanging receptacle	Nut and grommet (Fig.4)	<b>UTS1GN147P</b>	
	Free hanging receptacle	Cable gland (Fig.3)	<b>UTS1JC147P</b>	<b>UTS1JC147S</b>
	Plug	Without (Fig.5)	<b>UTS6147P</b>	<b>UTS6147S</b>
	Plug	Cable gland and grommet (Fig.6)		<b>UTS6GJC147S</b>
	Plug	Nut and grommet (Fig.7)		<b>UTS6GN147S</b>
	Plug	Cable gland (Fig.6)	<b>UTS6JC147P</b>	<b>UTS6JC147S</b>
	Jam nut receptacle	Without (Fig.8)	<b>UTS7147P</b>	<b>UTS7147S</b>
	Jam nut receptacle	Cable gland and grommet (Fig.10)	<b>UTS7GJC147P</b>	
Jam nut receptacle	Nut and grommet (Fig.9)	<b>UTS7GN147P</b>		
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig.2)	<b>UTS014E7P</b>	<b>UTS014E7S</b>
	Plug	Cable gland (Fig.6)	<b>UTS6JC14E7P</b>	<b>UTS6JC14E7S</b>
	Jam nut receptacle	Without (Fig.11)	<b>UTS714E7P</b>	<b>UTS714E7S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.1)	<b>UTS014D7P</b>	<b>UTS014D7S</b>
	Jam nut receptacle with stand off and hold down clips	Without (Fig.11)	<b>UTS714D7P32</b>	<b>UTS714D7S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.11)	<b>UTS714D7P</b>	<b>UTS714D7S</b>
	Jam nut receptacle	With stand off and hold down clip (Fig.11)	<b>UTS7147PSEK9</b>	
Screw contacts loaded	Jam nut receptacle	Without (Fig.8)	<b>UTS7147PSCR</b>	<b>UTS7147SSCR</b>
	Free hanging receptacle	Cable gland (Fig.3)	<b>UTS1JC147PSCR</b>	
	Plug	Cable gland (Fig.6)	<b>UTS6JC147PSCR</b>	<b>UTS6JC147SSCR</b>

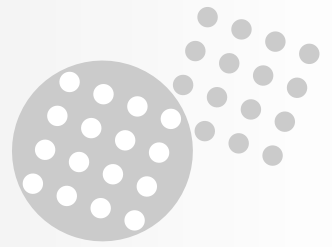
Sealed unmatred



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS14DCG	UTS14DCGR

Handle
Part number
SHANGLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS614DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS14DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

Gasket
Part numbers / neoprene
UTFD14B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS714CCRR	UTS614CCRR
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRG	UTS614CCRG
* Add G for Green, Y for Yellow, R for Red		

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24MØK <sup>(1)</sup>		S16RCM20	
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4	
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 16ML1TK6 <sup>(1)</sup>		S16SCML11	
RMDXK10D28K		Coaxial contacts	MI 0S- 1J
RCDXK1D28K			MI 0S- 1J
RM RC DX60xxD28K	MI 0S- 1J		
RM RC DXK10D28 + yor k090	MI 0S- 1J		
RM RC DX60xxD28		MI 0S- 1J	

(1): example of plating, for other plating see UTS catalog page 143

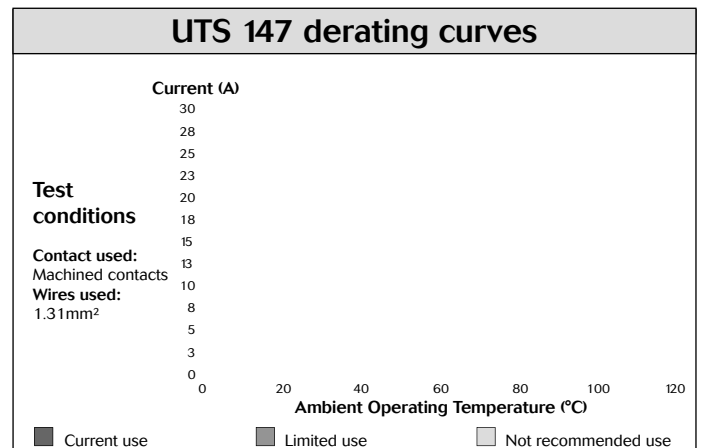


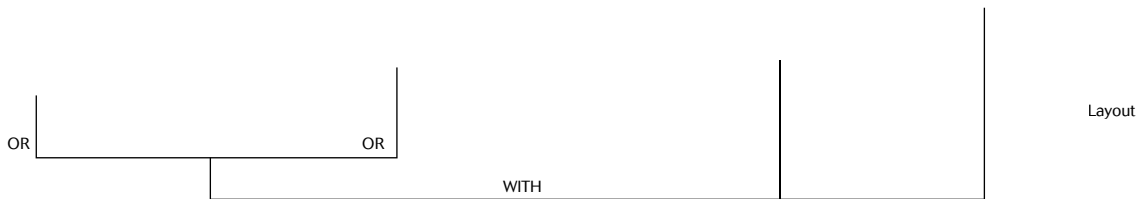
### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MI K <sup>(1)</sup>	RC24MI K <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16MI 23K <sup>(1)</sup>	RC16MI 23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14MI 50K <sup>(1)</sup>	RC14MI 50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MI 80K <sup>(1)</sup>	RC14MI 80K <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
18-16		SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-	
14		SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	-	RMDXK10D28	RCDXK1 D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK10D28 + yor k090	RCDXK1 D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1- TK6  
 (3): For dimensions see page 148

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 300V 4kV 3 Temperature elevation: 50°C</p>





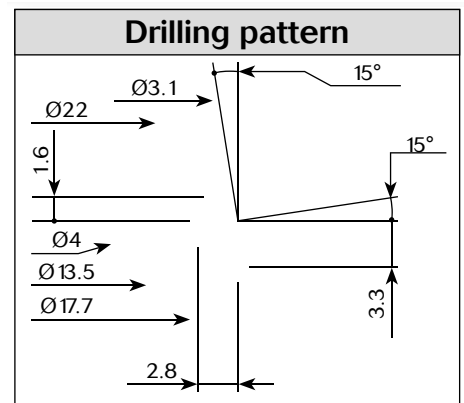
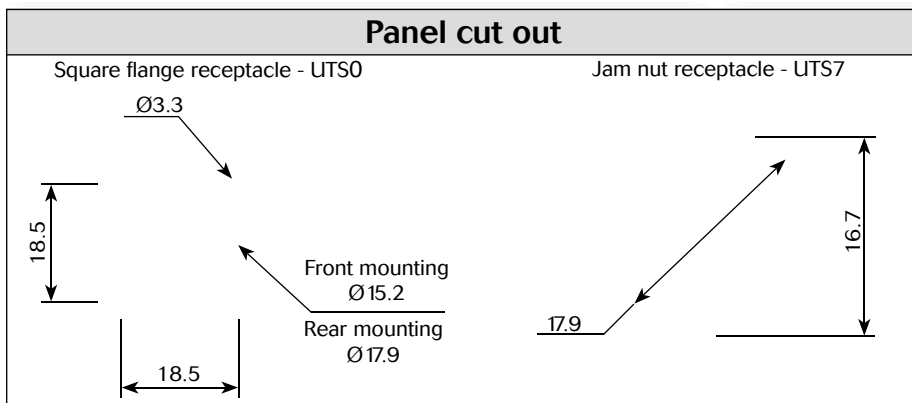
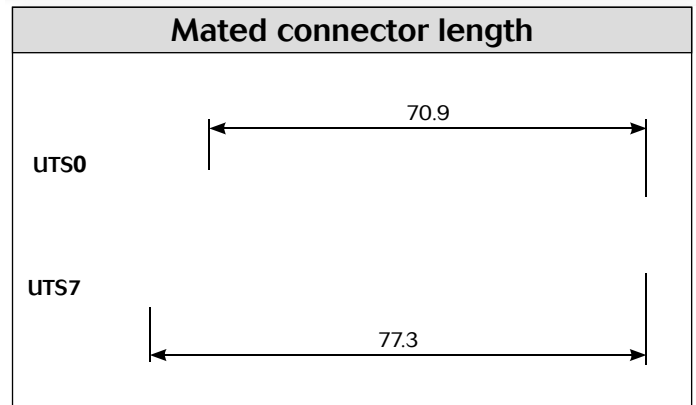
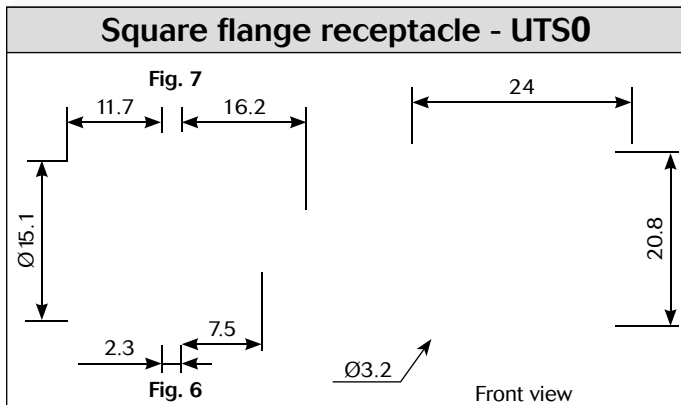
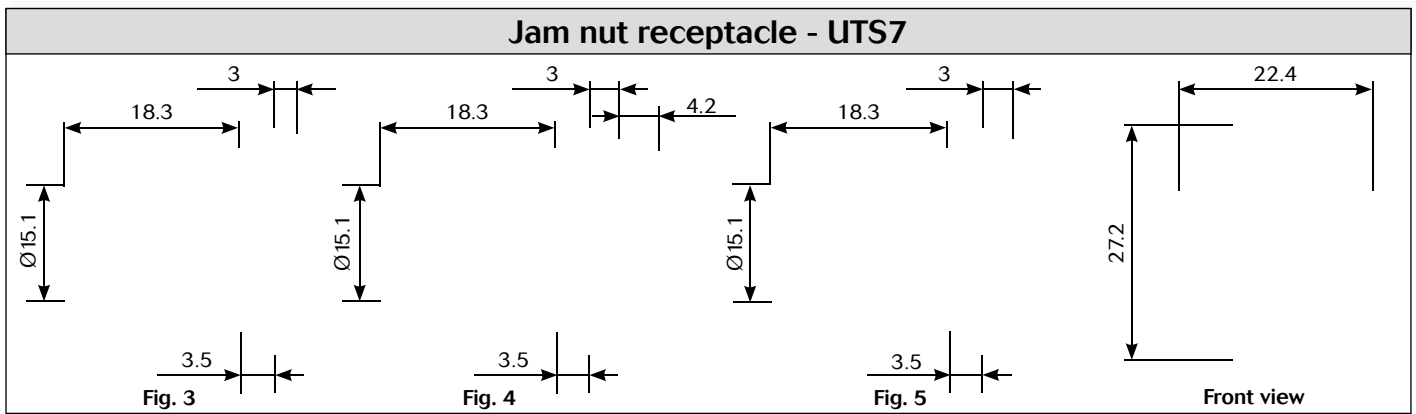
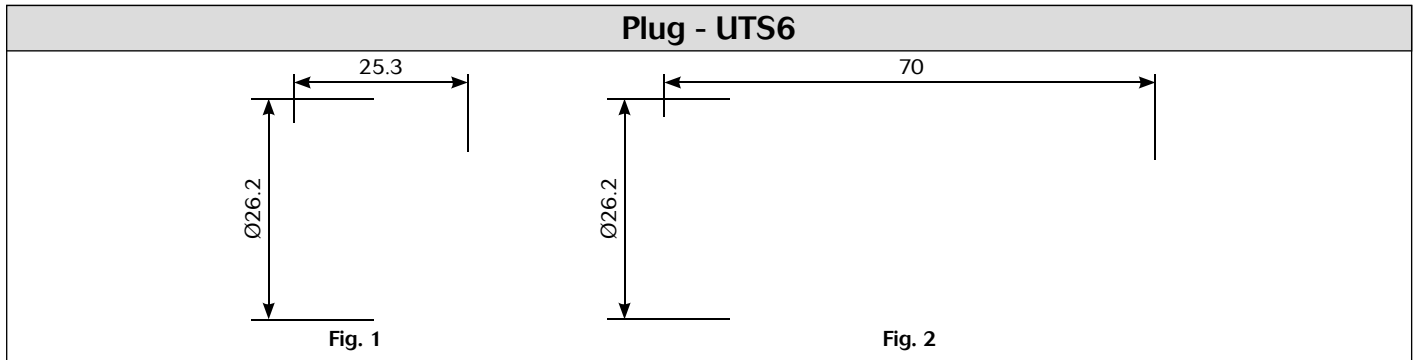
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS010E7P</b>	<b>UTS010E7S</b>
	Plug	Without (Fig.1)	<b>UTS610E7P</b>	<b>UTS610E7S</b>
		Cable gland (Fig.2)	<b>UTS6JC10E7P</b>	<b>UTS6JC10E7S</b>
Jam nut receptacle	Without (Fig.3)	<b>UTS710E7P</b>	<b>UTS710E7S</b>	
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS010D7P</b>	<b>UTS010D7S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS710D7P32</b>	<b>UTS710D7S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS710D7P</b>	<b>UTS710D7S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm



### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS10DCG	UTS10DCGR

Plug sealing cap
Part number
UTS610DCG

Square flange sealing cap	
Metal terminal	
Part number	Part number
UTS10DCGE	

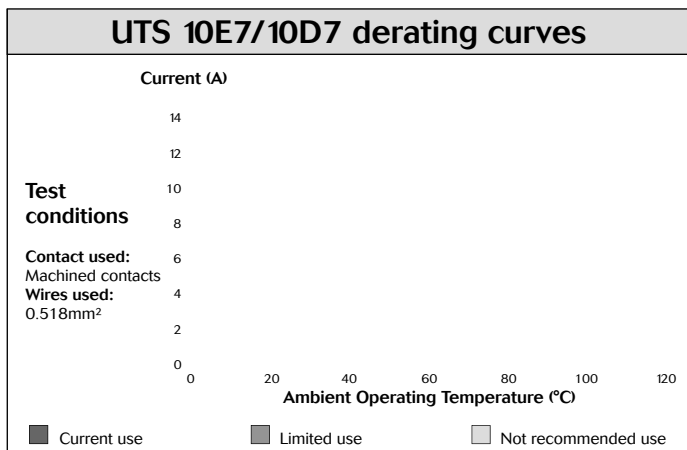
Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005586A	85005595

Gasket
Part numbers / neoprene
UTFD12B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS710CCRR</td> <td>UTS610CCRR</td> </tr> <tr> <td>UTS710CCRY</td> <td>UTS610CCRY</td> </tr> <tr> <td>UTS710CCRG</td> <td>UTS610CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS710CCRR	UTS610CCRR	UTS710CCRY	UTS610CCRY	UTS710CCRG	UTS610CCRG
Part numbers											
Receptacles		Plugs									
UTS710CCRR		UTS610CCRR									
UTS710CCRY	UTS610CCRY										
UTS710CCRG	UTS610CCRG										
y for Yellow											
R for Red											

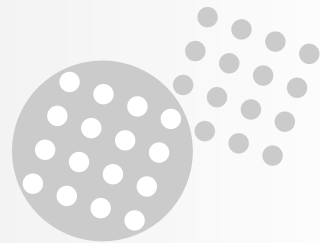
\* Add G for Green, Y for Yellow, R for Red

Electrical characteristics
<p><b>UL</b> 6A 250V UL94 HB</p> <p><b>CSA</b> 6A 250V UL94 HB</p> <p><b>IEC</b> 7A 50V 1.5kV 3</p>

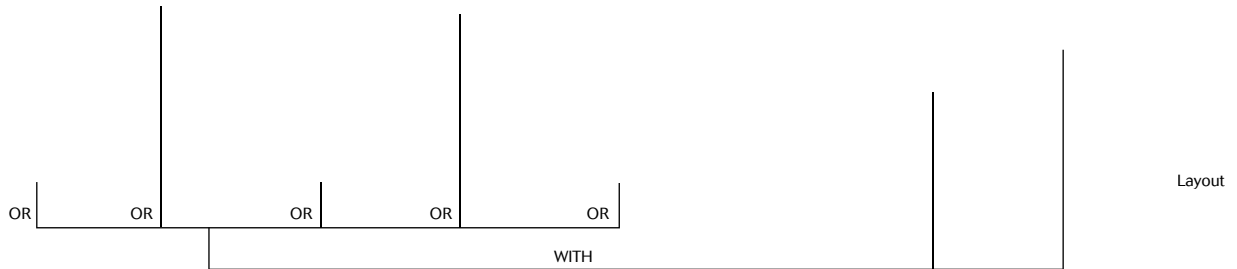


# UTS Series

10E7/10D7





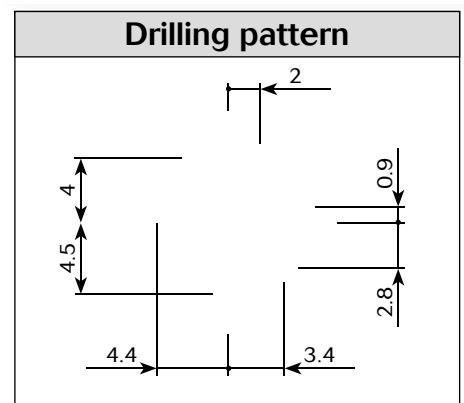
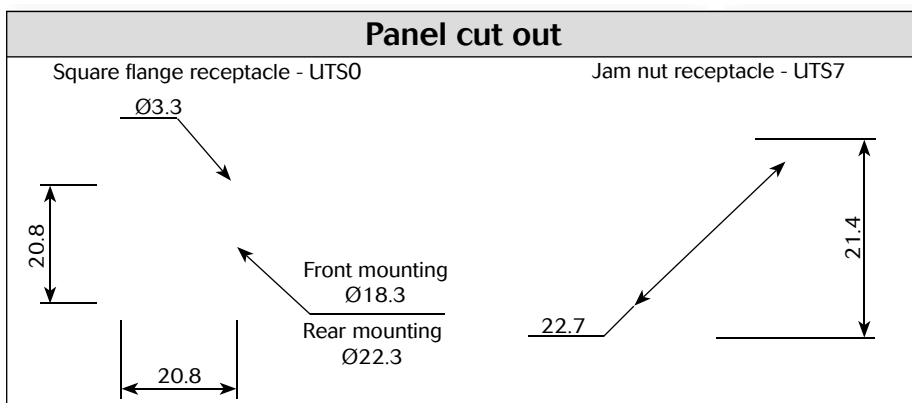
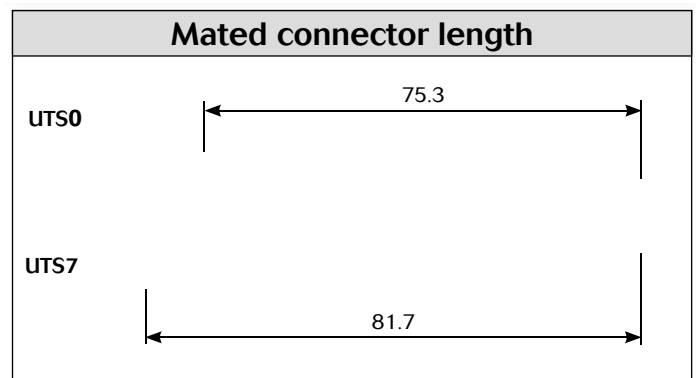
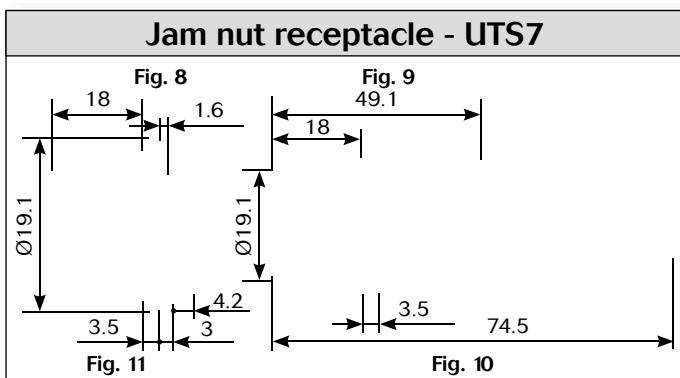
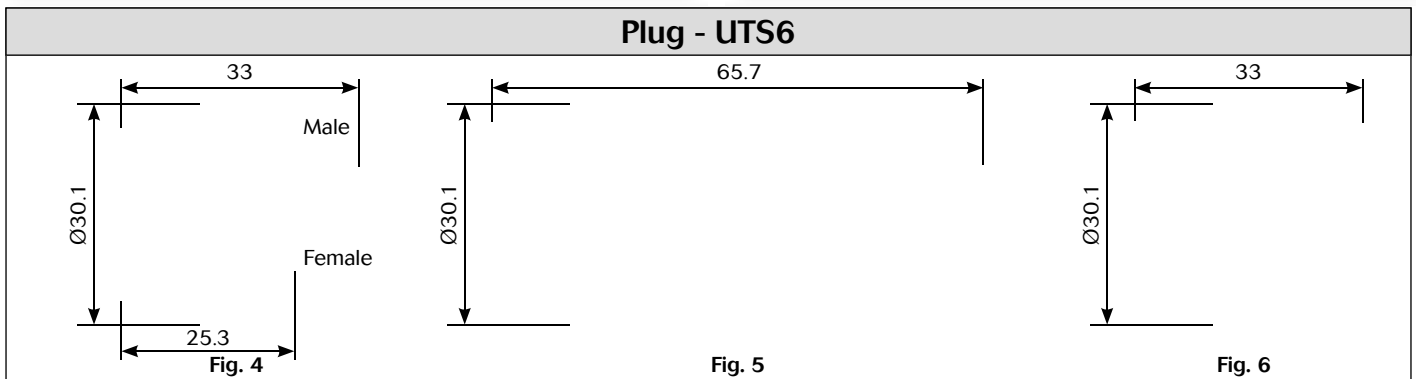
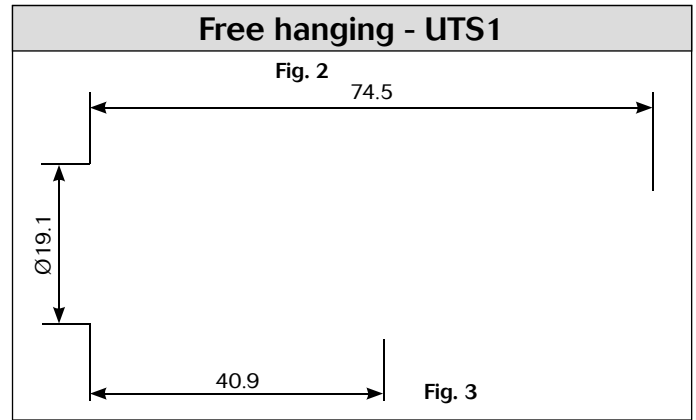
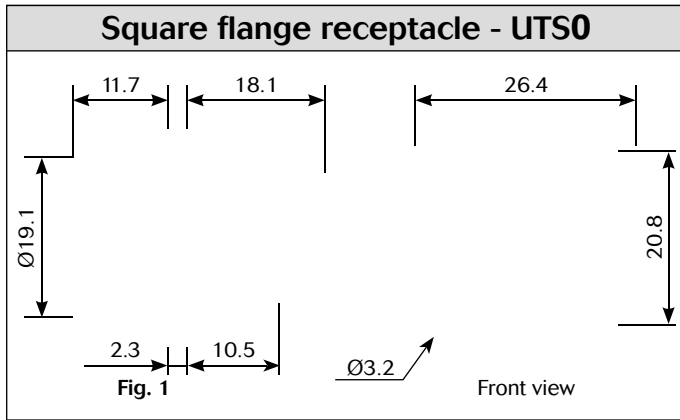


## Specifications

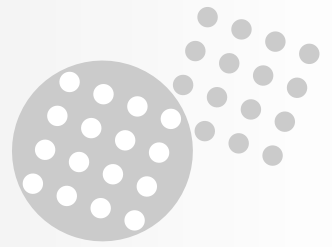
Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 99	Square flange receptacle	Without (Fig.1)	<b>UTS0128P</b>	<b>UTS0128S</b>
	Free hanging receptacle	Cable gland and grommet (Fig.2)	<b>UTS1GJC128P</b>	
	Free hanging receptacle	Nut and grommet (Fig.3)	<b>UTS1GN128P</b>	
	Free hanging receptacle	Cable gland (Fig.2)	<b>UTS1JC128P</b>	<b>UTS1JC128S</b>
	Plug	Without (Fig.4)	<b>UTS6128P</b>	<b>UTS6128S</b>
	Plug	Cable gland and grommet (Fig.5)		<b>UTS6GJC128S</b>
	Plug	Nut and grommet (Fig.6)		<b>UTS6GN128S</b>
	Plug	Cable gland (Fig.5)	<b>UTS6JC128P</b>	<b>UTS6JC128S</b>
	Jam nut receptacle	Without (Fig.8)	<b>UTS7128P</b>	<b>UTS7128S</b>
	Jam nut receptacle	Cable gland and grommet (Fig.10)	<b>UTS7GJC128P</b>	
	Jam nut receptacle	Nut and grommet (Fig.9)	<b>UTS7GN128P</b>	
PCB contacts loaded	Jam nut receptacle	With stand off and hold down clip (Fig.11)	<b>UTS7128PSEK9</b>	



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Handle
Part number
SHANDLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS612DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS712CCRR	UTS612CCRR
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRG	UTS612CCRG
* Add G for Green, Y for Yellow, R for Red		

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24MØK <sup>(1)</sup>		S16RCM20	
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4	
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 16ML1TK6 <sup>(1)</sup>		S16SCML11	
RMDXK10D28K		Coaxial contacts	MI0S-1J
RCDXK1D28K			MI0S-1J
RM RC DX60xxD28K	MI0S-1J		
RM RC DXK10D28 + yor k090	MI0S-1J		
RM RC DX60xxD28		MI0S-1J	

(1): example of plating, for other plating see UTS catalog page 143

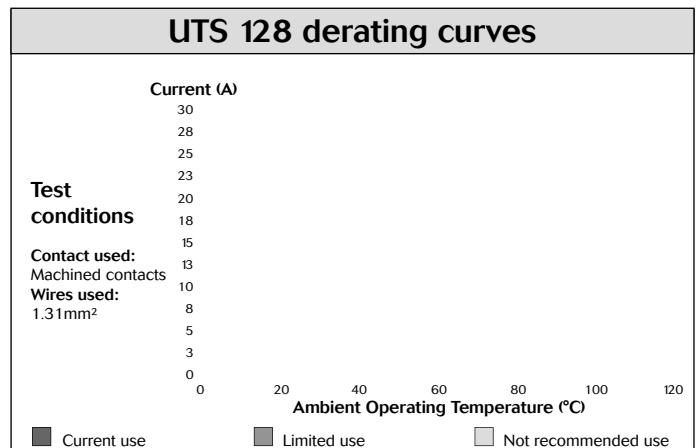


### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MI K <sup>(1)</sup>	RC24MI K <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16MI 23K <sup>(1)</sup>	RC16MI 23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14MI 50K <sup>(1)</sup>	RC14MI 50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MI 80K <sup>(1)</sup>	RC14MI 80K <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
		18-16	SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-
		14	SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-
	PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-
Coaxial	Cable Multipiece	-	RMDXK10D28	RCDXK1 D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK10D28 + yor k090	RCDXK1 D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1- TK6  
 (3): For dimensions see page 148

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> 10A 80V 1.5kV 3</p>



# UTS Series

## 12E8/12D8



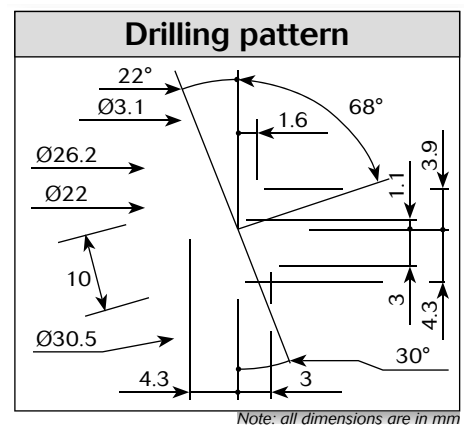
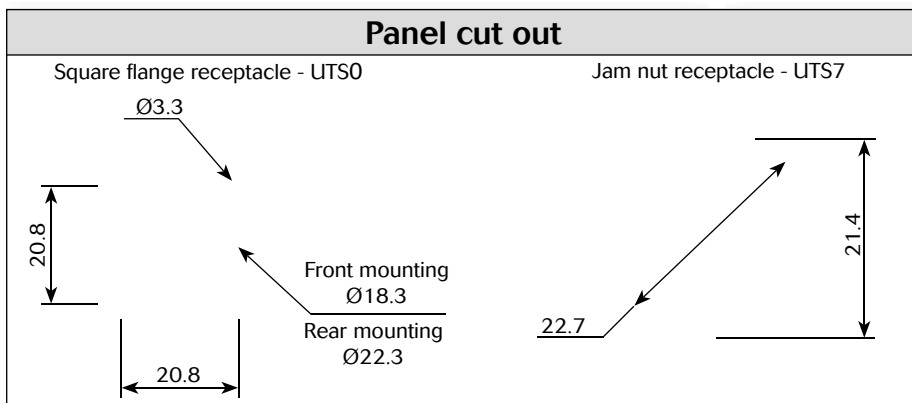
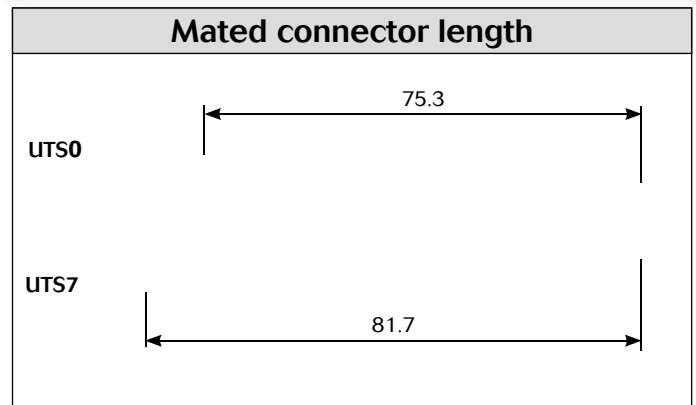
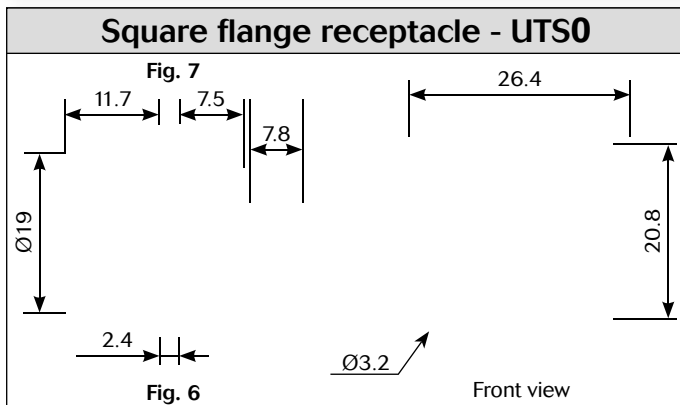
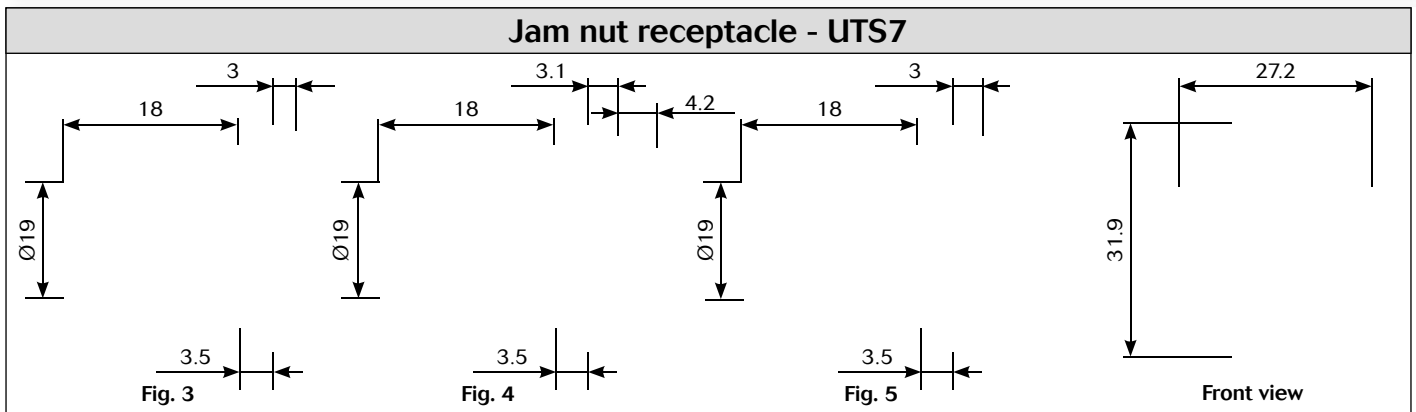
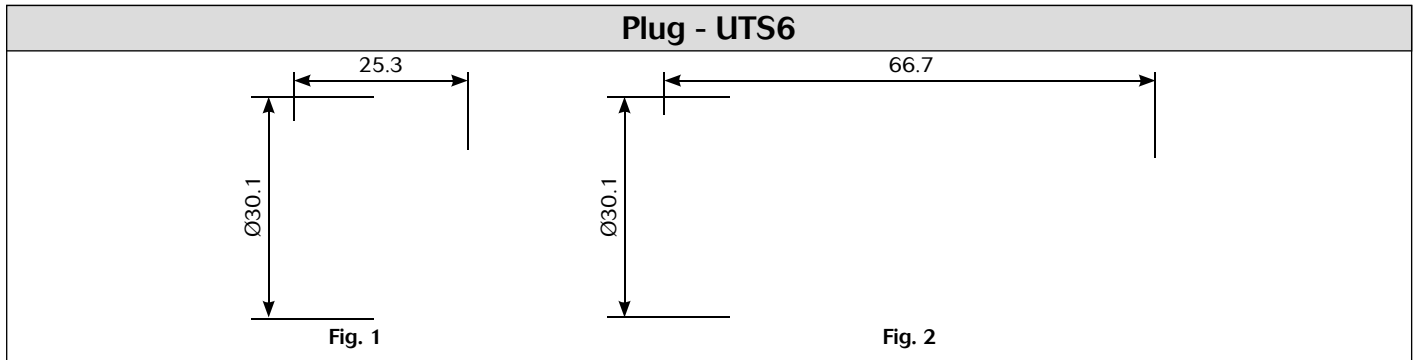
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS012E8P</b>	<b>UTS012E8S</b>
	Plug	Without (Fig.1)	<b>UTS612E8P</b>	<b>UTS612E8S</b>
		Cable gland (Fig.2)	<b>UTS6JC12E8P</b>	<b>UTS6JC12E8S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS712E8P</b>	<b>UTS712E8S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS012D8P</b>	<b>UTS012D8S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS712D8P32</b>	<b>UTS712D8S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS712D8P</b>	<b>UTS712D8S</b>

Sealed unmated



### Dimensions





### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Plug sealing cap
Part number
UTS612DCG

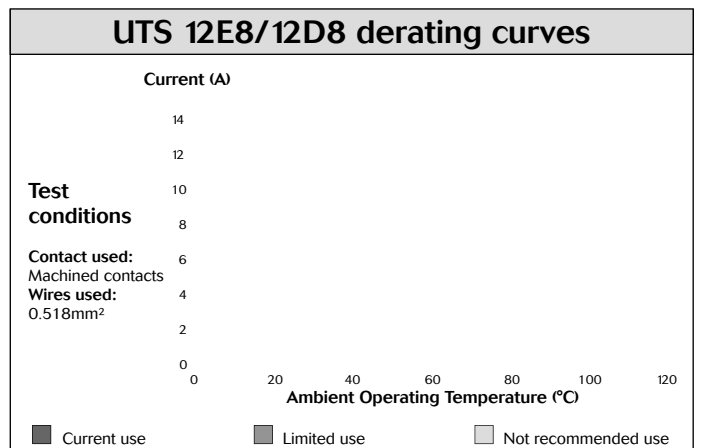
Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS712CCRR</td> <td>UTS612CCRR</td> </tr> <tr> <td>UTS712CCRY</td> <td>UTS612CCRY</td> </tr> <tr> <td>UTS712CCRG</td> <td>UTS612CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS712CCRR	UTS612CCRR	UTS712CCRY	UTS612CCRY	UTS712CCRG	UTS612CCRG
Part numbers											
Receptacles		Plugs									
UTS712CCRR		UTS612CCRR									
UTS712CCRY	UTS612CCRY										
UTS712CCRG	UTS612CCRG										
y for Yellow											
R for Red											
	* Add G for Green, Y for Yellow, R for Red										

Electrical characteristics
<b>UL</b> 4.5A 250V UL94 HB  <b>CSA</b> 4.5A 250V UL94 HB  <b>IEC</b> 6A 32V 1.5kV 3



# UTS Series

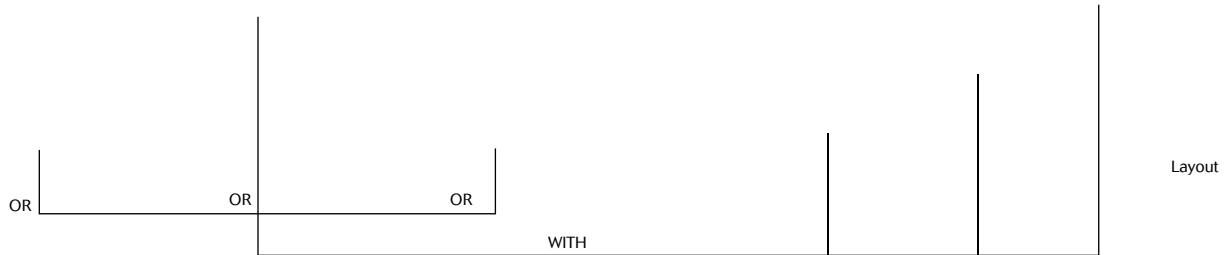
12E8/12D8





# UTS Series

## 1210 - 12E10/12D10



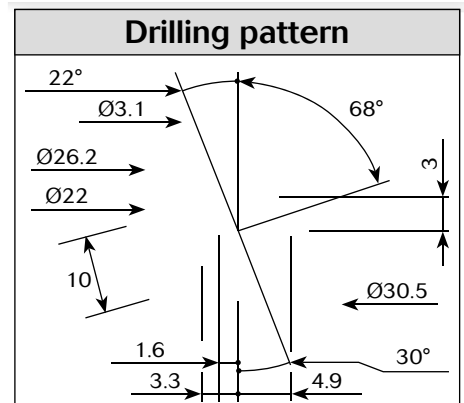
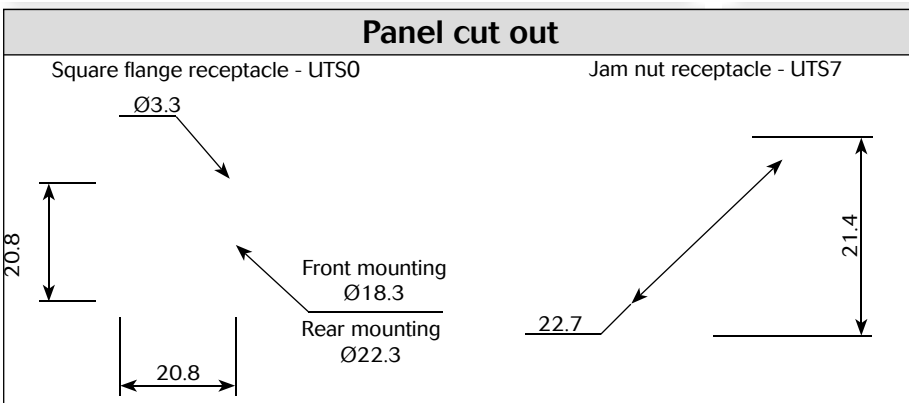
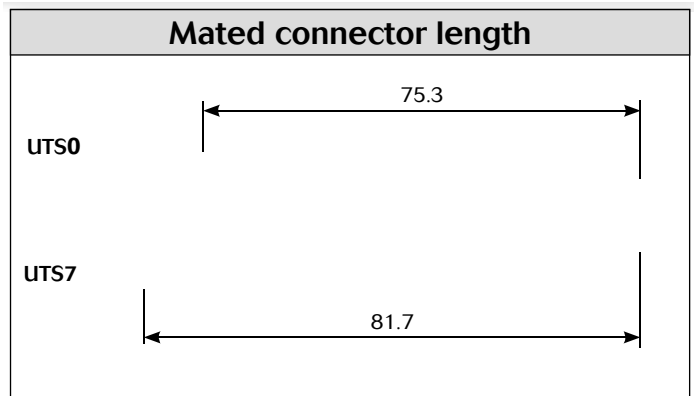
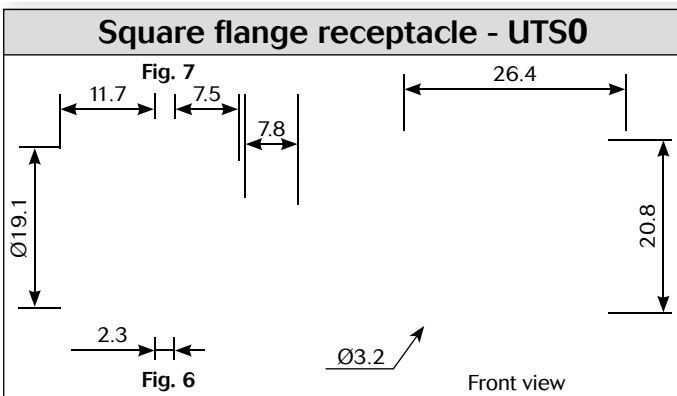
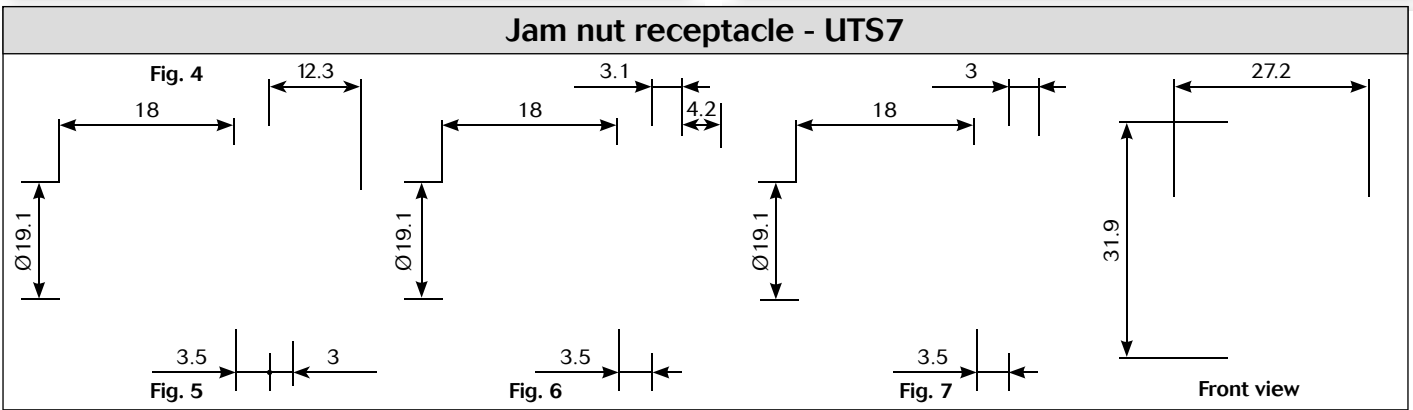
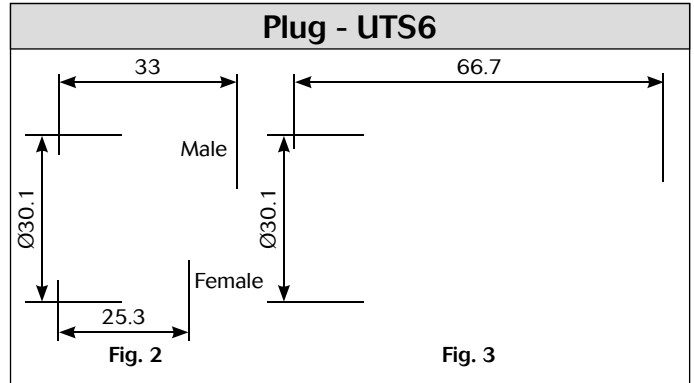
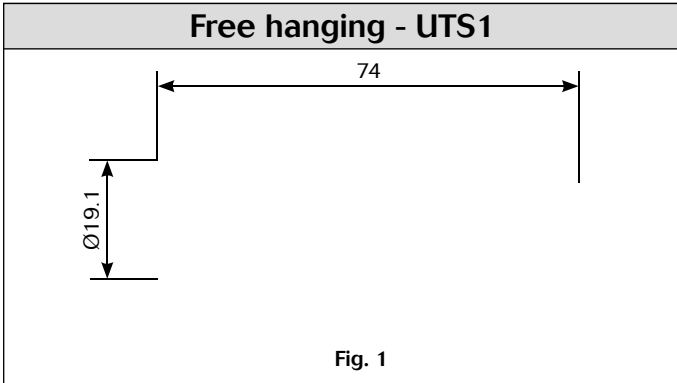
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page107	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC1210P</b>	<b>UTS1JC1210S</b>
	Plug	Without (Fig.2)	<b>UTS61210P</b>	<b>UTS61210S</b>
	Plug	Cable gland (Fig.3)	<b>UTS6JC1210P</b>	<b>UTS6JC1210S</b>
	Jam nut receptacle	Without (Fig.4)	<b>UTS71210P</b>	<b>UTS71210S</b>
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS012E10P</b>	<b>UTS012E10S</b>
	Plug	Without (Fig.2)	<b>UTS612E10P</b>	<b>UTS612E10S</b>
		Cable gland (Fig.3)	<b>UTS6JC12E10P</b>	<b>UTS6JC12E10S</b>
	Jam nut receptacle	Without (Fig.5)	<b>UTS712E10P</b>	<b>UTS712E10S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS012D10P</b>	<b>UTS012D10S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.6)	<b>UTS712D10P32</b>	<b>UTS712D10S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	<b>UTS712D10P</b>	<b>UTS712D10S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm

# UTS Series

## 1210 - 12E10/12D10



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Handle
Part number
SHANDLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS612DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Crimp tooling		
Contacts	Contact size	Part number of head
RM RC 24V8K <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RM
RM RC 20V8K <sup>(1)</sup>		S20RM
RM RC 18V8K <sup>(1)</sup>		S20RM
SM SC 24V8S <sup>(2)</sup>		S20SCM20
SM SC 24VL3S <sup>(3)</sup>		S20SCM20
SM SC 20V8S <sup>(2)</sup>		S20SCM20
SM SC 20VL3S <sup>(3)</sup>		S20SCM20

(1): example of plating, for other plating see UTS catalog page 143  
 (2): contact reeled  
 (3): loose contact

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS712CCRR</td> <td>UTS612CCRR</td> </tr> <tr> <td>UTS712CCRY</td> <td>UTS612CCRY</td> </tr> <tr> <td>UTS712CCRG</td> <td>UTS612CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS712CCRR	UTS612CCRR	UTS712CCRY	UTS612CCRY	UTS712CCRG	UTS612CCRG
Part numbers											
Receptacles		Plugs									
UTS712CCRR		UTS612CCRR									
UTS712CCRY	UTS612CCRY										
UTS712CCRG	UTS612CCRG										
y for Yellow											
R for Red											
* Add G for Green, Y for Yellow, R for Red											

# UTS Series

## 1210 - 12E10/12D10



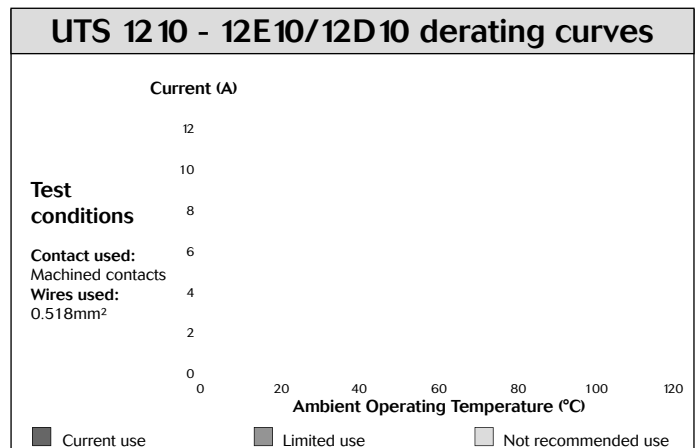
10 contacts  
6A/50V  
per IEC 61984

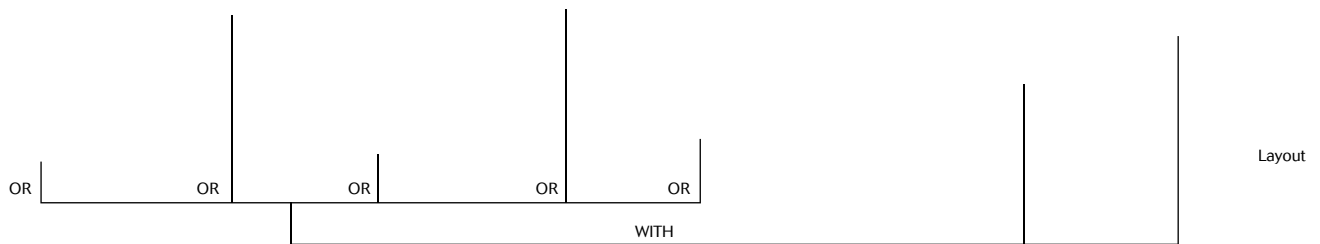
### Contacts

#20	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	26-24	RM24V8K <sup>(1)</sup>	RC24V8K <sup>(1)</sup>	-	1.58
		22-20	RM20V8K <sup>(1)</sup>	RC20V8K <sup>(1)</sup>	-	1.58
		20-18	RM18V8K <sup>(1)</sup>	RC18V8K <sup>(1)</sup>	-	2.1
	stamped & formed reeled contacts	26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
	PCB	Machined <sup>(3)</sup>	-	RM5016K	RC5016K	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1-TK6  
 (3): For dimensions see page 148

Electrical characteristics	
<b>UTS 1210</b> <b>UL</b> 5A 250V UL94 V-0	<b>UTS 12E10/12D10</b> <b>UL</b> 4.5A 250V UL94 HB
<b>CSA</b> 4A 250V UL94 V-0	<b>CSA</b> 4.5A 250V UL94 HB
<b>IEC</b> 6A 50V 1.5kV 3	



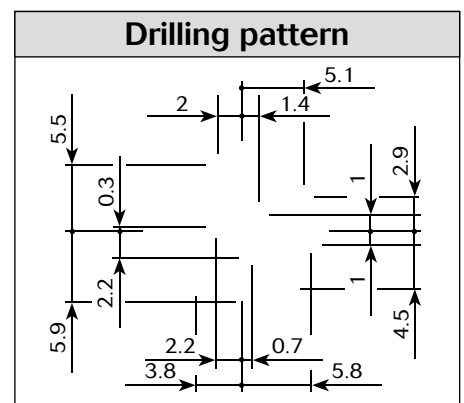
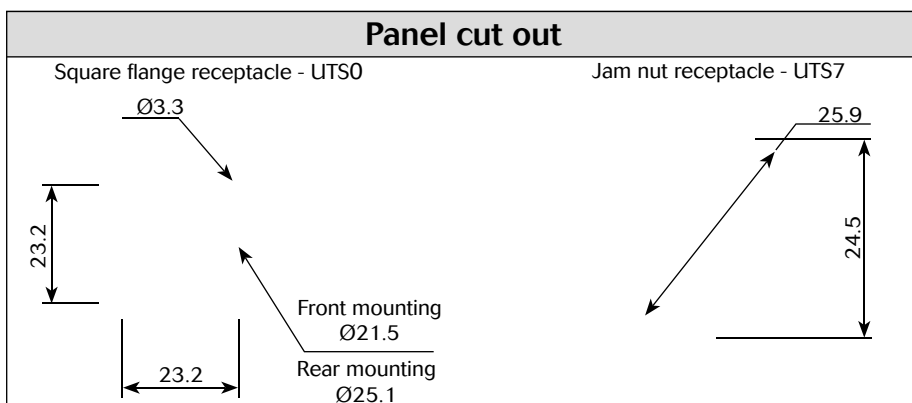
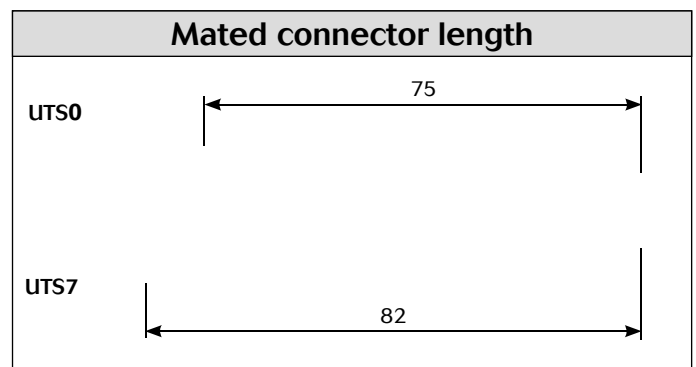
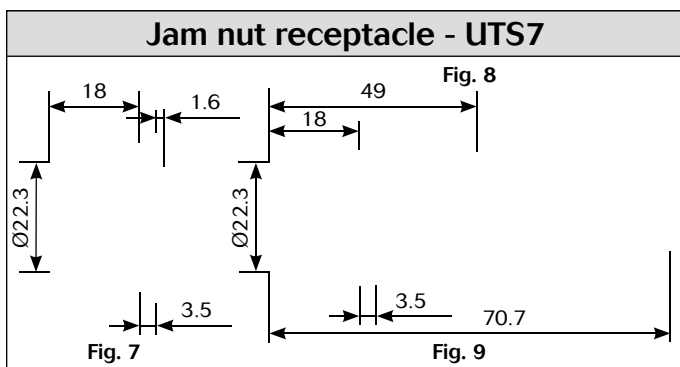
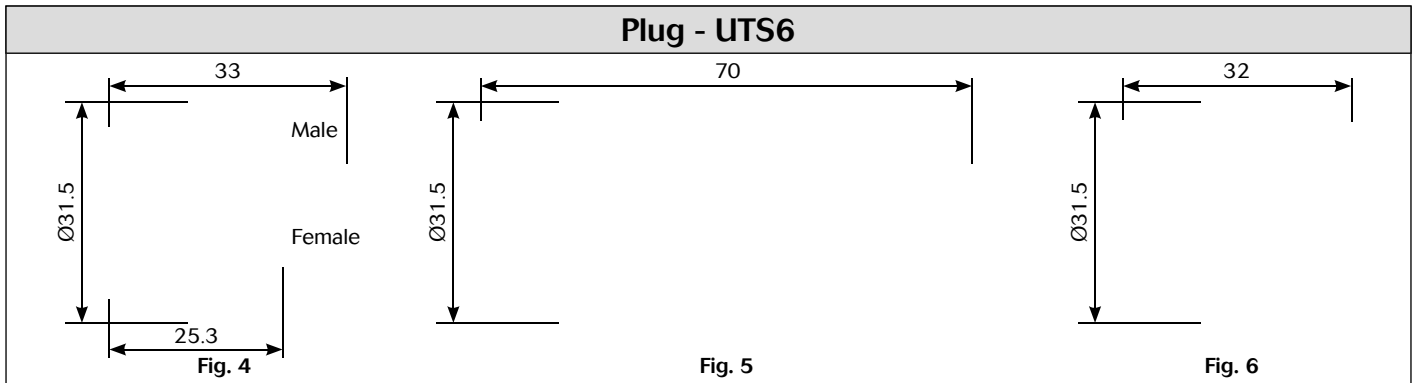
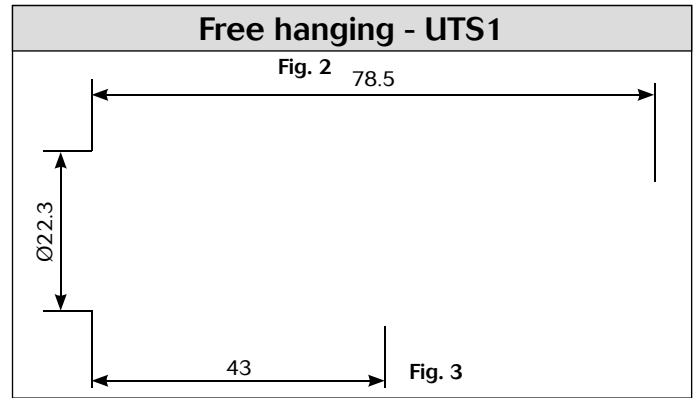
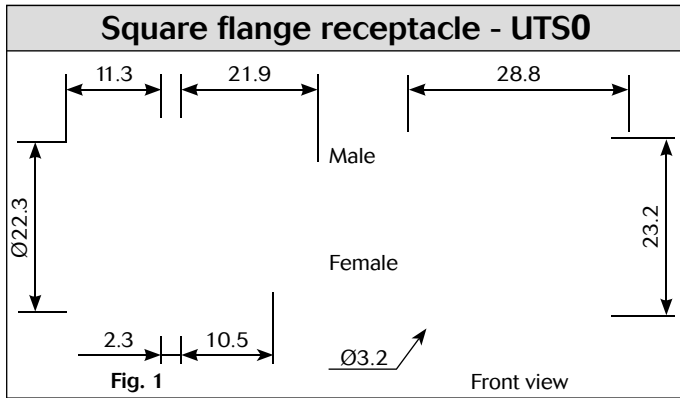


## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 111	Square flange receptacle	Without (Fig.1)	<b>UTS01412P</b>	<b>UTS01412S</b>
	Free hanging receptacle	Cable gland and grommet (Fig.2)	<b>UTS1GJC1412P</b>	
	Free hanging receptacle	Nut and grommet (Fig.3)	<b>UTS1GN1412P</b>	
	Free hanging receptacle	Cable gland (Fig.2)	<b>UTS1JC1412P</b>	<b>UTS1JC1412S</b>
	Plug	Without (Fig.4)	<b>UTS61412P</b>	<b>UTS61412S</b>
	Plug	Cable gland and grommet (Fig.5)		<b>UTS6GJC1412S</b>
	Plug	Nut and grommet (Fig.6)		<b>UTS6GN1412S</b>
	Plug	Cable gland (Fig.5)	<b>UTS6JC1412P</b>	<b>UTS6JC1412S</b>
	Jam nut receptacle	Without (Fig.7)	<b>UTS71412P</b>	<b>UTS71412S</b>
	Jam nut receptacle	Cable gland and grommet (Fig.9)	<b>UTS7GJC1412P</b>	
	Jam nut receptacle	Nut and grommet (Fig.8)	<b>UTS7GN1412P</b>	
PCB contacts supply separately see page 111	Square flange receptacle	Without (Fig.1)	<b>UTS01412P</b>	<b>UTS01412S</b>
	Jam nut receptacle	Without (Fig.7)	<b>UTS71412P</b>	<b>UTS71412S</b>



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS14DCG	UTS14DCGR

Handle
Part number
SHANDLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS614DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS14DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

Gasket
Part numbers / neoprene
UTFD14B

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS714CCRR	UTS614CCRR
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRG	UTS614CCRG
* Add G for Green, Y for Yellow, R for Red		

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24MØK <sup>(1)</sup>		S16RCM20	
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4	
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	MI0S-1J
RCDXK1D28K			MI0S-1J
RM RC DX60xxD28K	MI0S-1J		
RM RC DXK10D28 + yor k090	MI0S-1J		
RM RC DX60xxD28		MI0S-1J	

(1): example of plating, for other plating see UTS catalog page 143

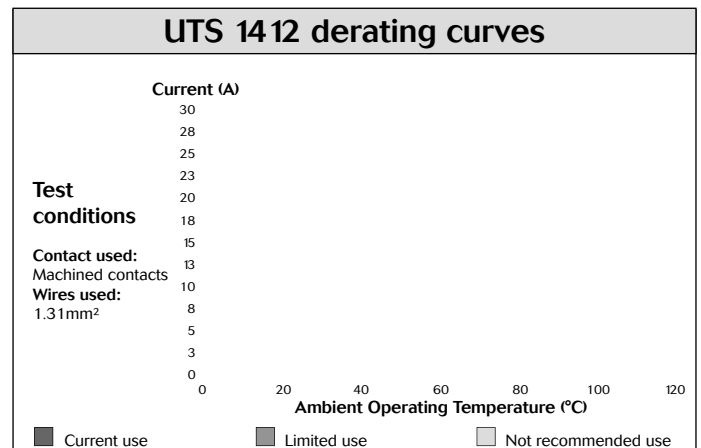


### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MI K <sup>(1)</sup>	RC24MI K <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16MI 23K <sup>(1)</sup>	RC16MI 23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14MI 50K <sup>(1)</sup>	RC14MI 50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MI 80K <sup>(1)</sup>	RC14MI 80K <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
18-16		SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-	
14		SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	-	RMDXK10D28	RCDXK1 D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK10D28 + yor k090	RCDXK1 D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1- TK6  
 (3): For dimensions see page 148

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> 10A 63V 1.5kV 3</p>





# UTS Series

14E12/14D12 (4x#16 + 8x#20)



## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS014E12P</b>	<b>UTS014E12S</b>
	Plug	Without (Fig.1)	<b>UTS614E12P</b>	<b>UTS614E12S</b>
		Cable gland (Fig.2)	<b>UTS6JC14E12P</b>	<b>UTS6JC14E12S</b>
Jam nut receptacle	Without (Fig.3)	<b>UTS714E12P</b>	<b>UTS714E12S</b>	
PCB contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS014D12P</b>	<b>UTS014D12S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS714D12P32</b>	<b>UTS714D12S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS714D12P</b>	<b>UTS714D12S</b>

Sealed unmated

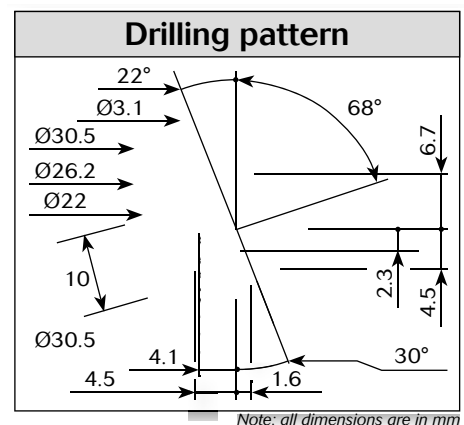
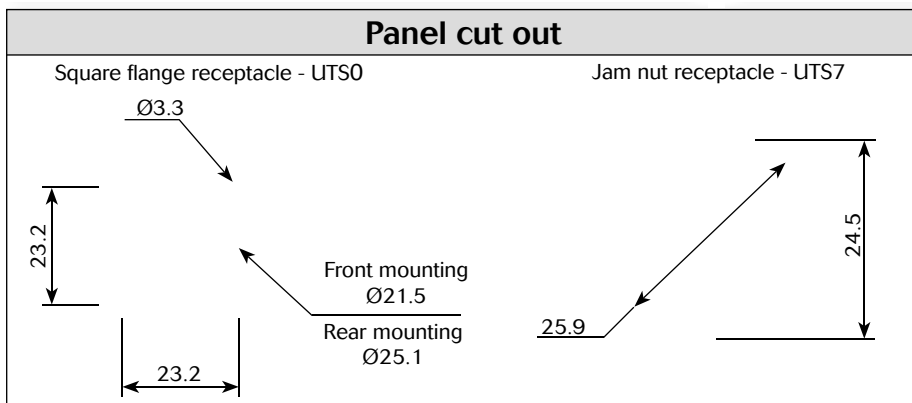
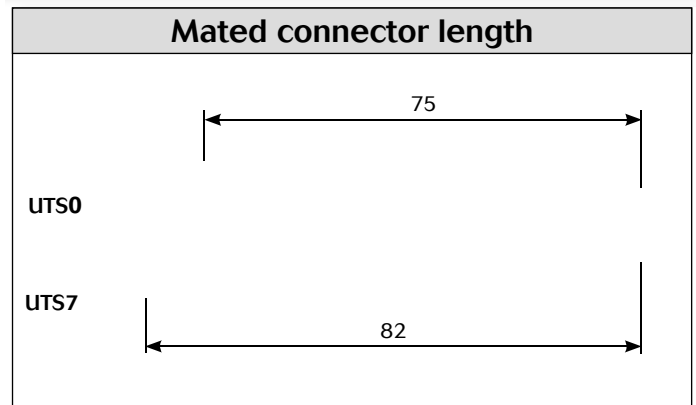
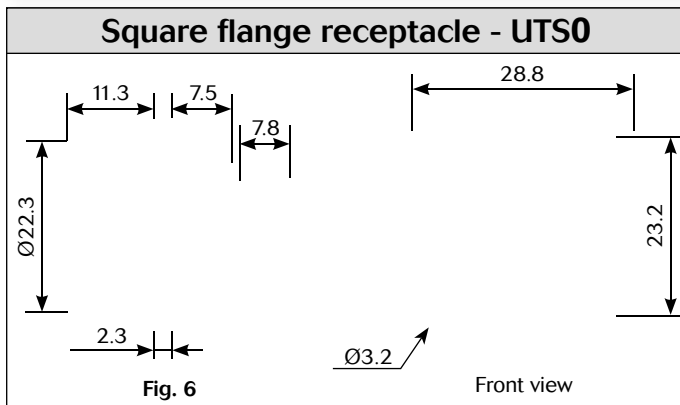
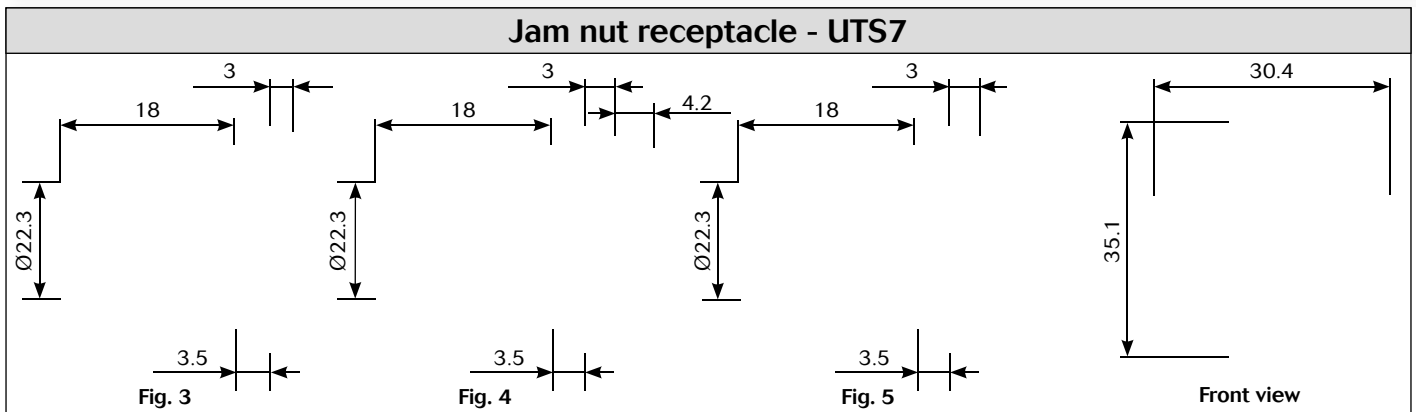
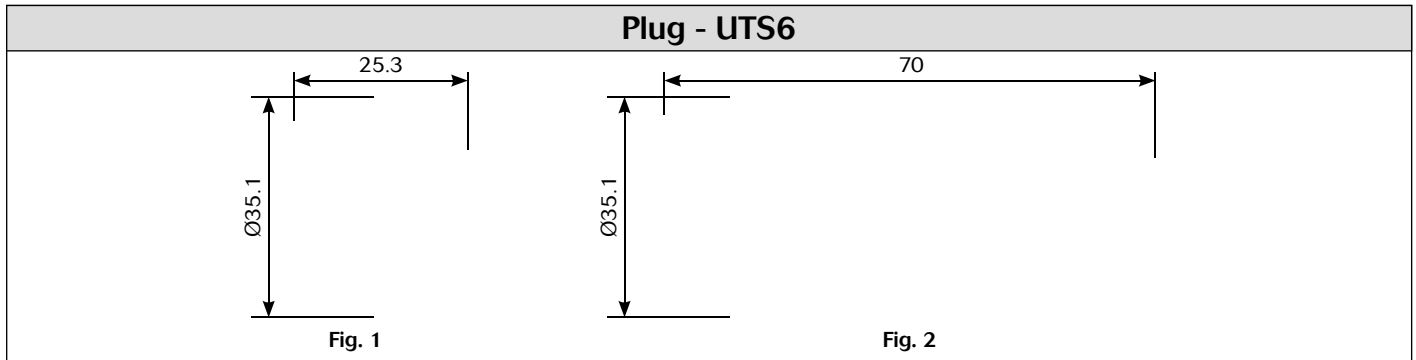
# UTS Series

14E12/14D12 (4x#16 + 8x#20)



12 contacts  
4A/50V  
per IEC 61984

## Dimensions



# UTS Series

14E12/14D12 (4x#16 + 8x#20)



## Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS14DCG	UTS14DCGR

Plug sealing cap
Part number
UTS614DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS14DCGE	

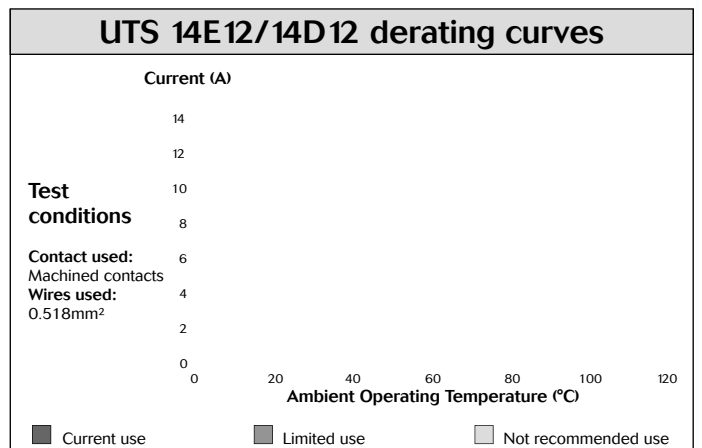
Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

Gasket
Part numbers / neoprene
UTFD14B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS714CCRR</td> <td>UTS614CCRR</td> </tr> <tr> <td>UTS714CCRY</td> <td>UTS614CCRY</td> </tr> <tr> <td>UTS714CCRG</td> <td>UTS614CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS714CCRR	UTS614CCRR	UTS714CCRY	UTS614CCRY	UTS714CCRG	UTS614CCRG
Part numbers											
Receptacles		Plugs									
UTS714CCRR	UTS614CCRR										
UTS714CCRY	UTS614CCRY										
UTS714CCRG	UTS614CCRG										
Y for Yellow											
R for Red											

\* Add G for Green, Y for Yellow, R for Red

Electrical characteristics
<p><b>UL</b> 4.5A 250V UL94 HB</p> <p><b>CSA</b> 4.5A 250V UL94 HB</p> <p><b>IEC</b> 4A 50V 1.5kV 3</p>



# UTS Series

14E12/14D12 (4x#16 + 8x#20)



# UTS Series

## 12E14/12D14



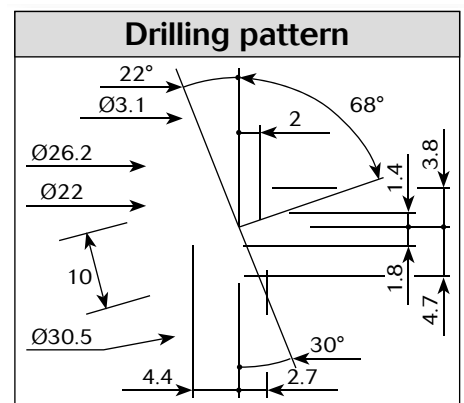
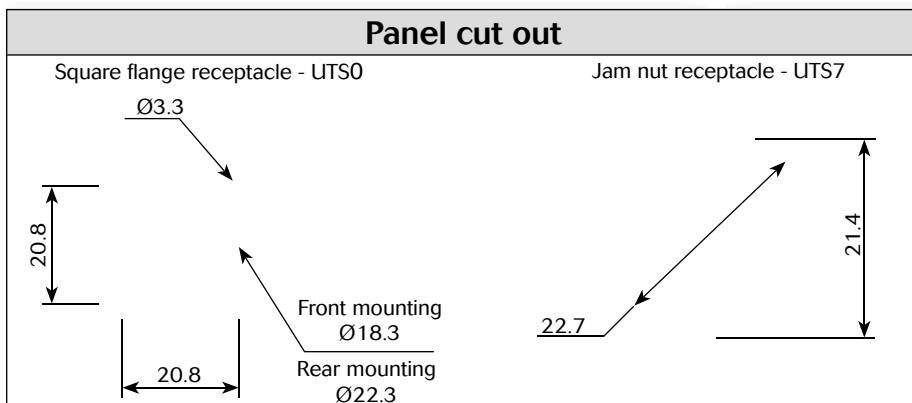
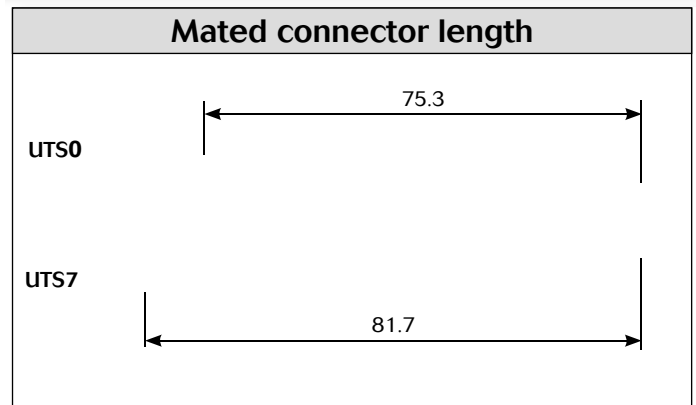
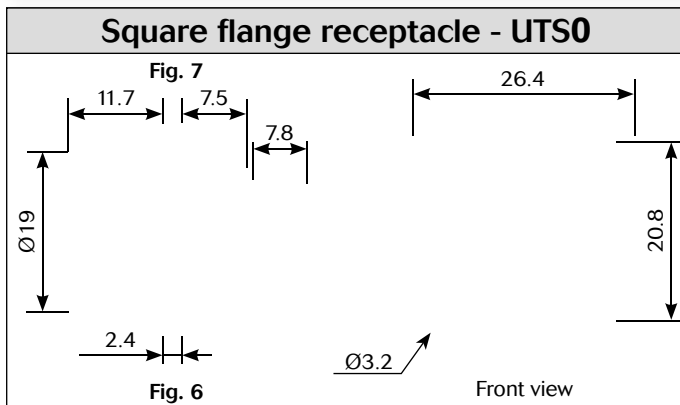
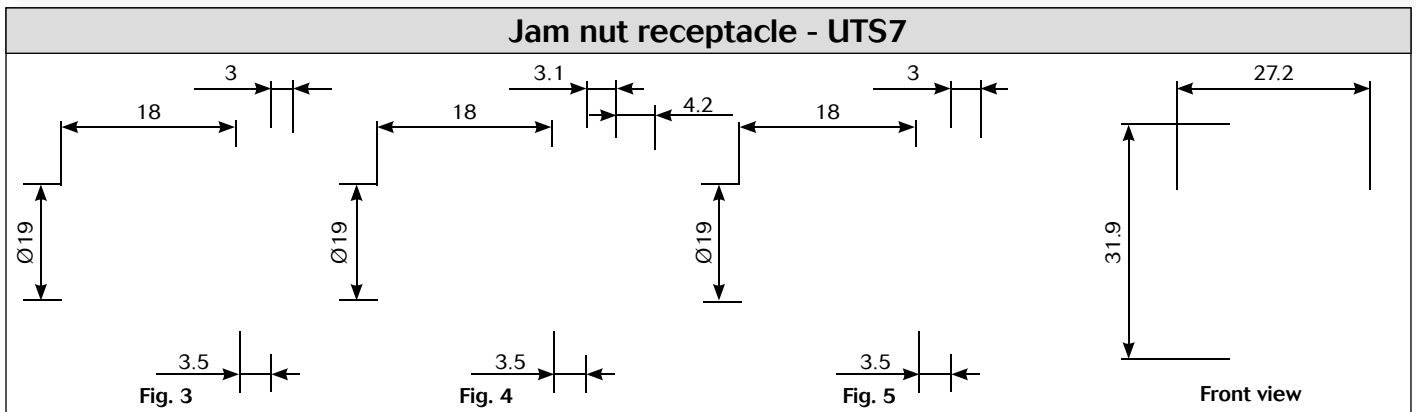
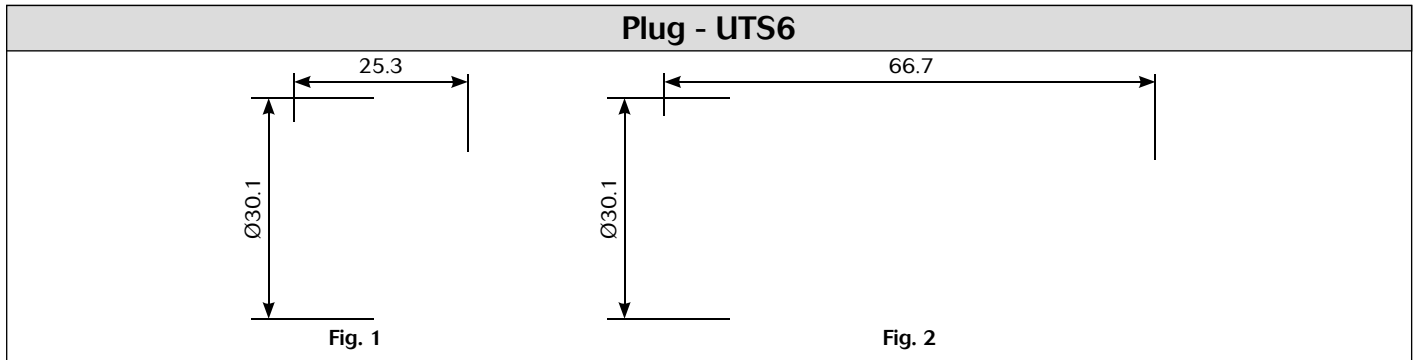
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsolder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS012E14P</b>	<b>UTS012E14S</b>
	Plug	Without (Fig.1)	<b>UTS612E14P</b>	<b>UTS612E14S</b>
		Cable gland (Fig.2)	<b>UTS6JC12E14P</b>	<b>UTS6JC12E14S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS712E14P</b>	<b>UTS712E14S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS012D14P</b>	<b>UTS012D14S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS712D14P32</b>	<b>UTS712D14S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS712D14P</b>	<b>UTS712D14S</b>

Sealed unmated



### Dimensions



Note: all dimensions are in mm



### Accessories

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS12DCG	UTS12DCGR

Plug sealing cap
Part number
UTS612DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS12DCGE	

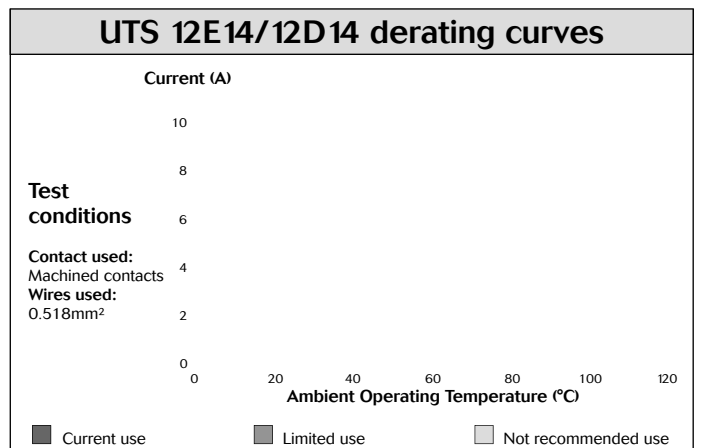
Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005587A	85005596

Gasket
Part numbers / neoprene
UTFD13B

Color coding rings											
G for Green	<table border="1"> <thead> <tr> <th colspan="2">Part numbers</th> </tr> <tr> <th>Receptacles</th> <th>Plugs</th> </tr> </thead> <tbody> <tr> <td>UTS712CCRR</td> <td>UTS612CCRR</td> </tr> <tr> <td>UTS712CCRY</td> <td>UTS612CCRY</td> </tr> <tr> <td>UTS712CCRG</td> <td>UTS612CCRG</td> </tr> </tbody> </table>	Part numbers		Receptacles	Plugs	UTS712CCRR	UTS612CCRR	UTS712CCRY	UTS612CCRY	UTS712CCRG	UTS612CCRG
Part numbers											
Receptacles		Plugs									
UTS712CCRR		UTS612CCRR									
UTS712CCRY	UTS612CCRY										
UTS712CCRG	UTS612CCRG										
Y for Yellow											
R for Red											

\* Add G for Green, Y for Yellow, R for Red

Electrical characteristics
<b>UL</b> 4.5A 250V UL94 HB
<b>CSA</b> 4.5A 250V UL94 HB
<b>IEC</b> 5A 32V 1.5kV 3



# UTS Series

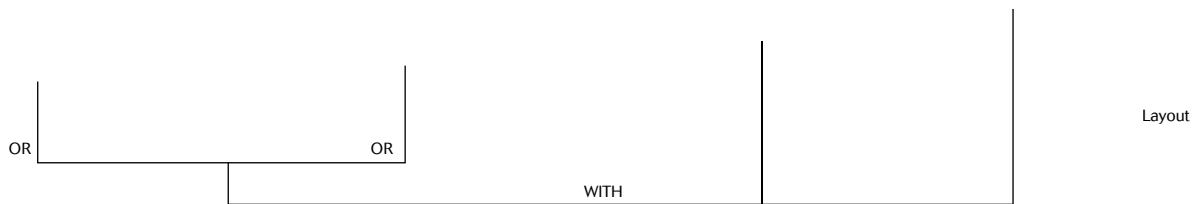
12E14/12D14





# UTS Series

## 14E15/14D15



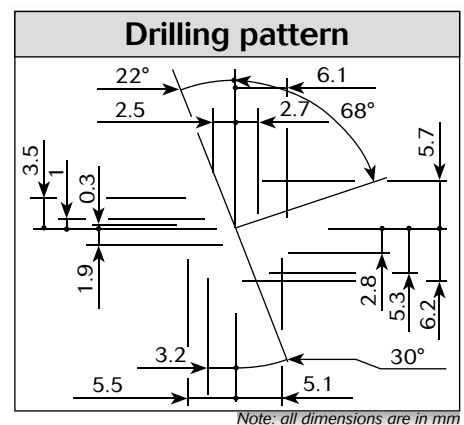
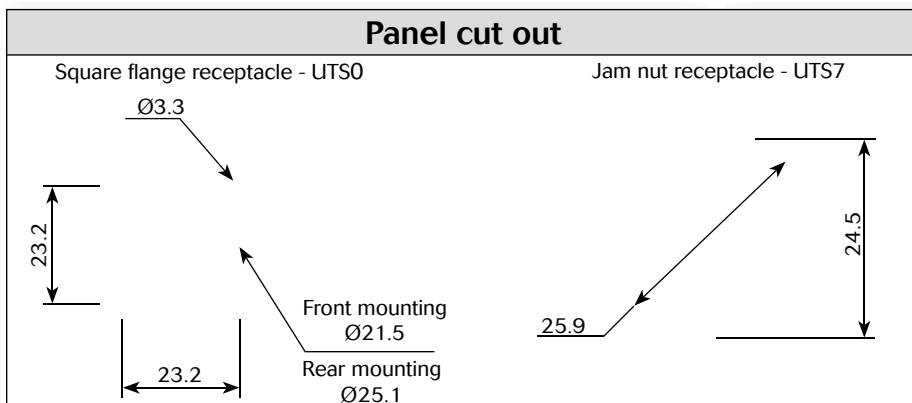
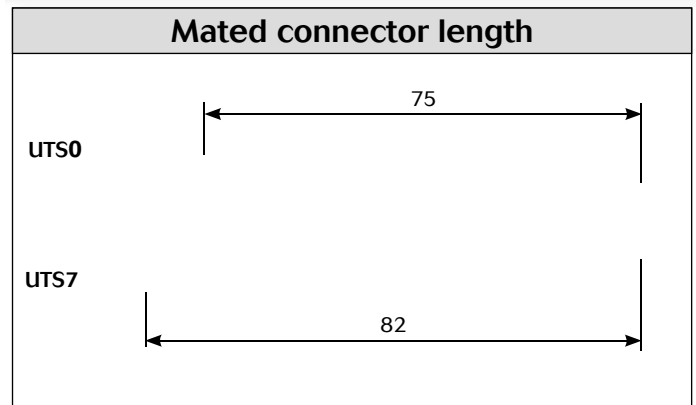
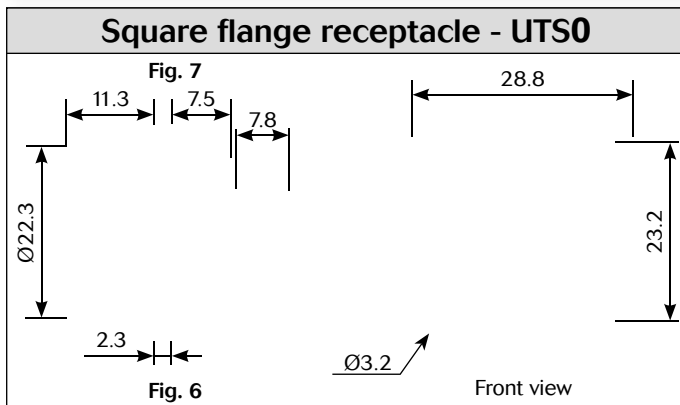
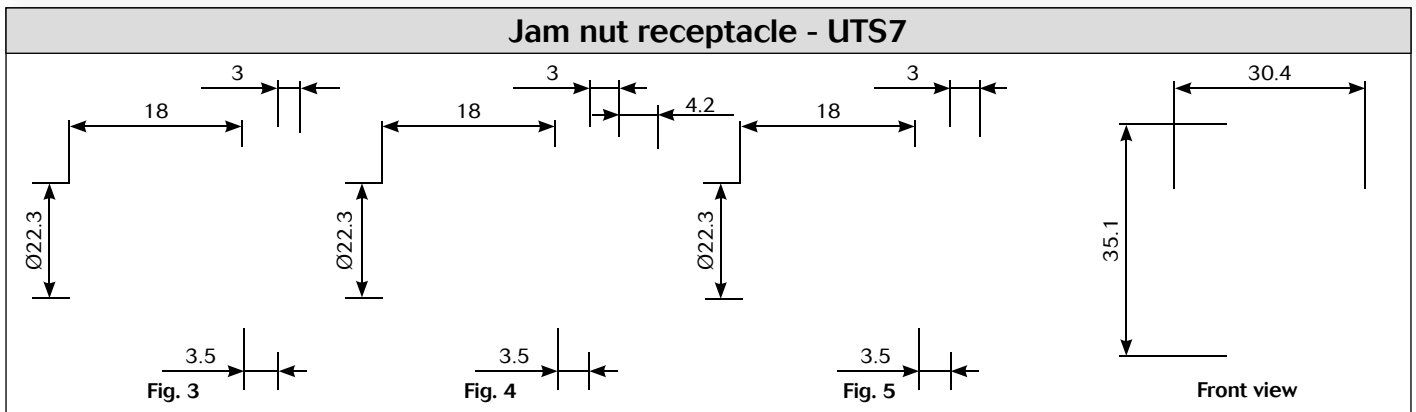
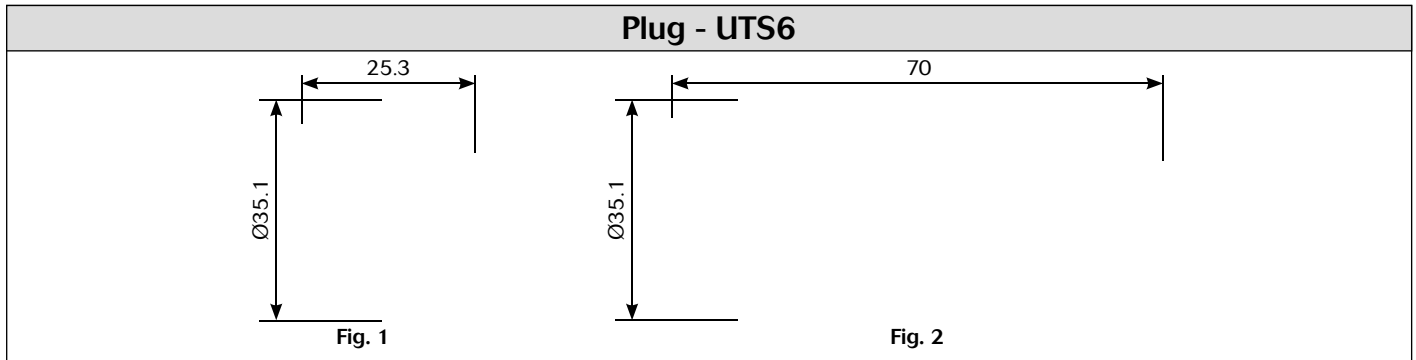
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS014E15P</b>	<b>UTS014E15S</b>
	Plug	Without (Fig.1)	<b>UTS614E15P</b>	<b>UTS614E15S</b>
		Cable gland (Fig.2)	<b>UTS6JC14E15P</b>	<b>UTS6JC14E15S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS714E15P</b>	<b>UTS714E15S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS014D15P</b>	<b>UTS014D15S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS714D15P32</b>	<b>UTS714D15S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS714D15P</b>	<b>UTS714D15S</b>

Sealed unmated



### Dimensions





### Accessories

#### Jam nut sealing caps

Metal terminal	
Part number	Part number
UTS14DCG	UTS14DCGR

#### Plug sealing cap

Part number
UTS614DCG

#### Square flange sealing cap

Metal terminal	
Part number	
UTS14DCGE	

#### Plastic protective cap

Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

#### Gasket

Part numbers / neoprene
UTFD14B

#### Color coding rings

G for Green

Y for Yellow

R for Red

Part numbers	
Receptacles	Plugs
UTS714CCRR	UTS614CCRR
UTS714CCRY	UTS614CCRY
UTS714CCRG	UTS614CCRG

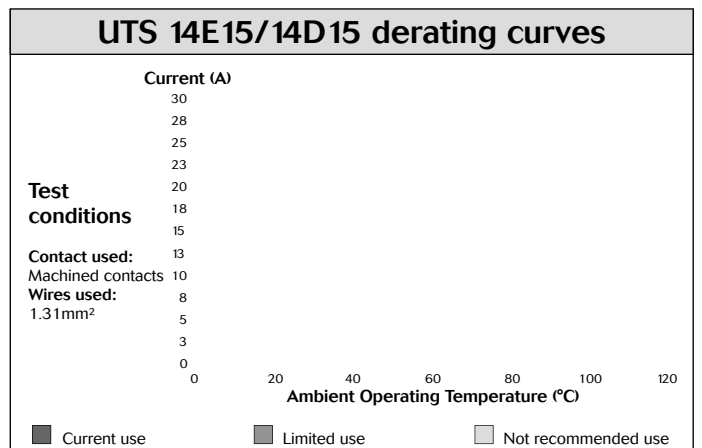
\* Add G for Green, Y for Yellow, R for Red

#### Electrical characteristics

**UL**  
12A 650V UL94 HB

**CSA**  
12A 650V UL94 HB

**IEC**  
4A 50V 1.5kV 3



UTS Series  
14E15/14D15



# UTS Series

## 14E18/14D18



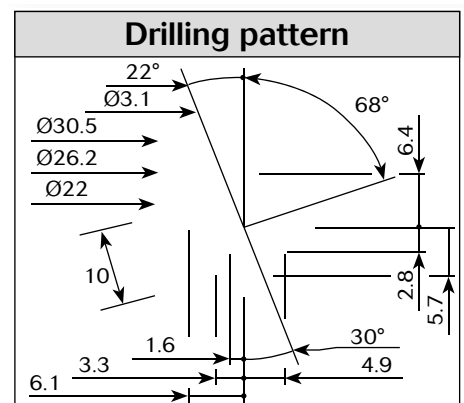
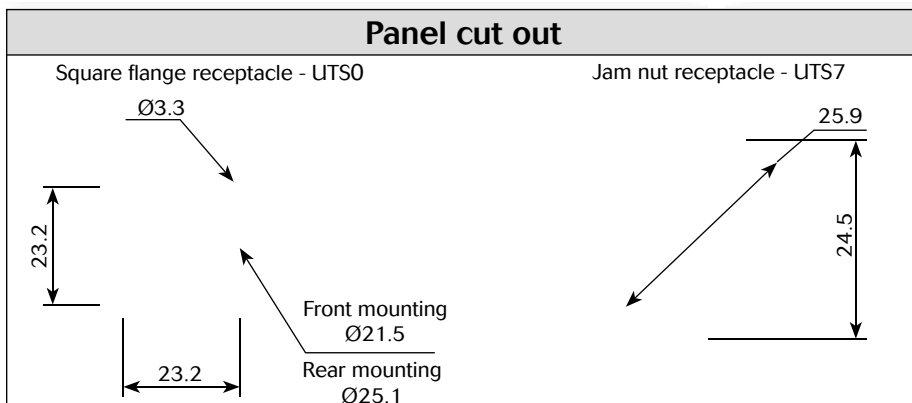
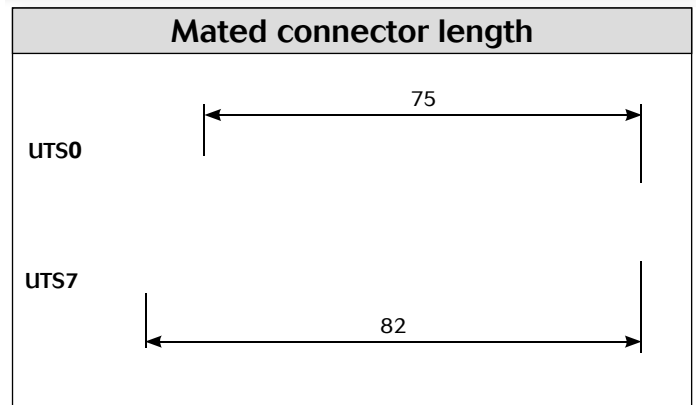
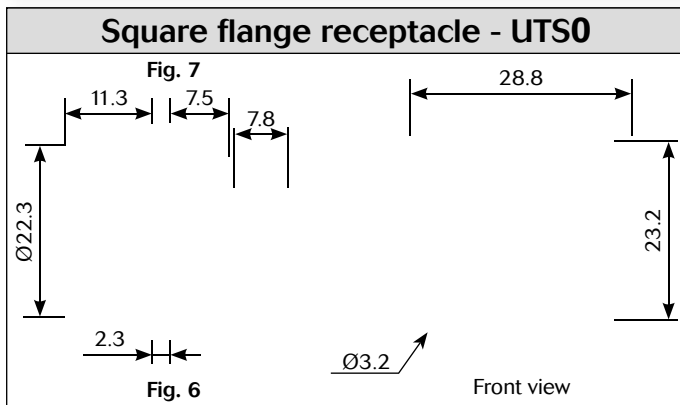
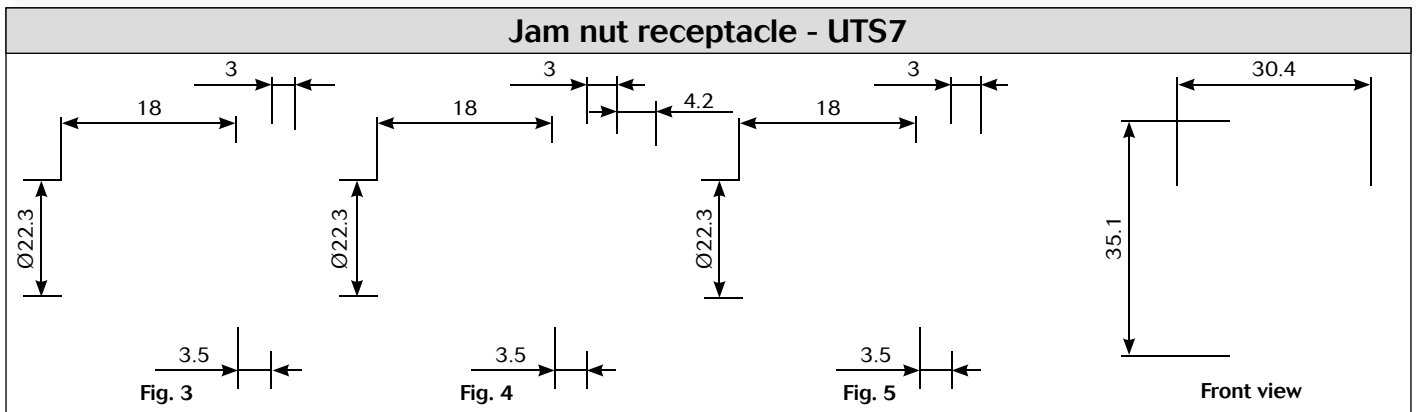
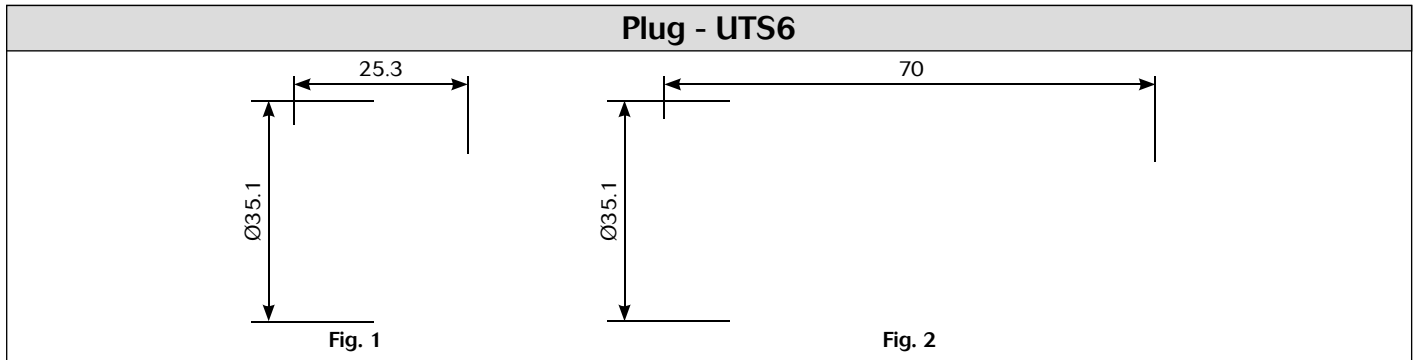
## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.6)	<b>UTS014E18P</b>	<b>UTS014E18S</b>
	Plug	Without (Fig.1)	<b>UTS614E18P</b>	<b>UTS614E18S</b>
		Cable gland (Fig.2)	<b>UTS6JC14E18P</b>	<b>UTS6JC14E18S</b>
	Jam nut receptacle	Without (Fig.3)	<b>UTS714E18P</b>	<b>UTS714E18S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.7)	<b>UTS014D18P</b>	<b>UTS014D18S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.4)	<b>UTS714D18P32</b>	<b>UTS714D18S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	<b>UTS714D18P</b>	<b>UTS714D18S</b>

Sealed unmatd



### Dimensions



Note: all dimensions are in mm



### Accessories

#### Jam nut sealing caps

Part number
UTS14DCG

Part number
UTS14DCGR

Metal terminal

#### Plug sealing cap

Part number
UTS614DCG

#### Square flange sealing cap

Metal terminal

Part number
UTS14DCGE

#### Plastic protective cap

Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

#### Gasket

Part numbers / neoprene
UTFD14B

#### Color coding rings

G for Green

y for Yellow

R for Red

Part numbers	
Receptacles	Plugs
UTS714CCRR	UTS614CCRR
UTS714CCRY	UTS614CCRY
UTS714CCRG	UTS614CCRG

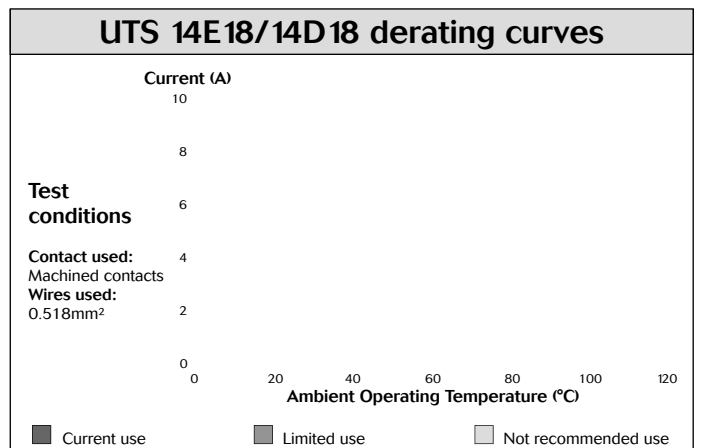
\* Add G for Green, Y for Yellow, R for Red

#### Electrical characteristics

**UL**  
4A 250V UL94 HB

**CSA**  
4A 250V UL94 HB

**IEC**  
5A 50V 1.5kV 3



# UTS Series

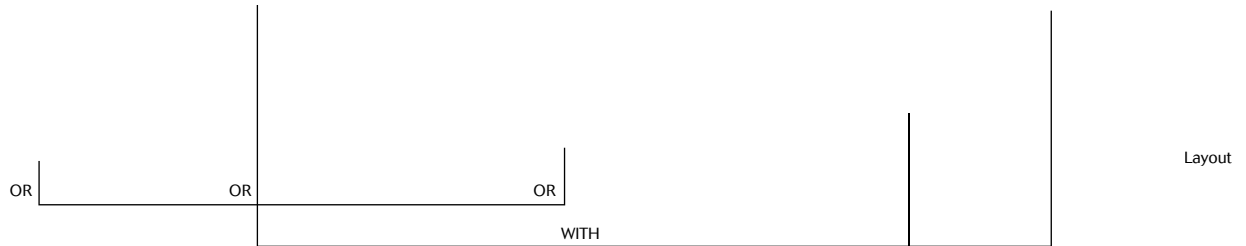
14E18/14D18





# UTS Series

## 1419 - 14E19/14D19



## Specifications

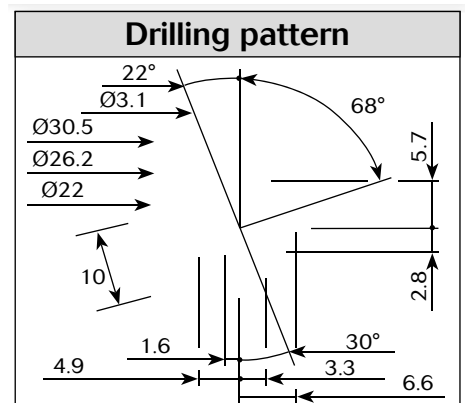
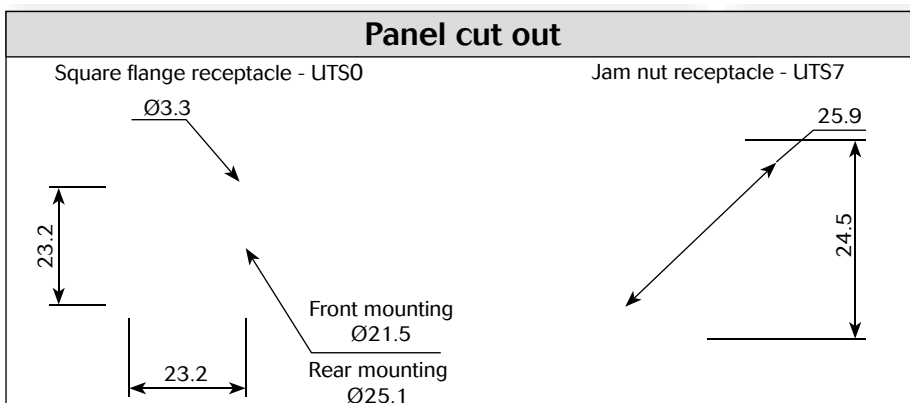
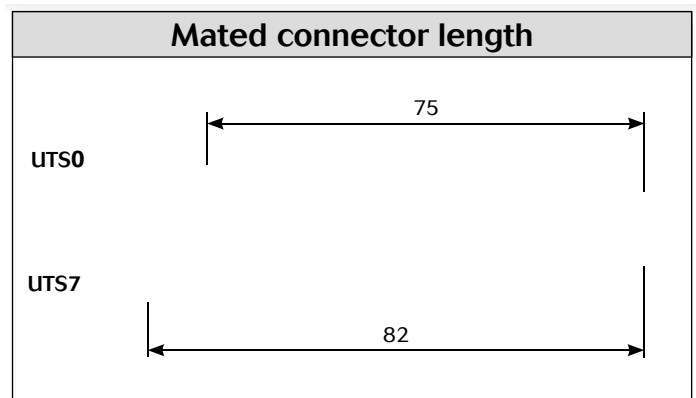
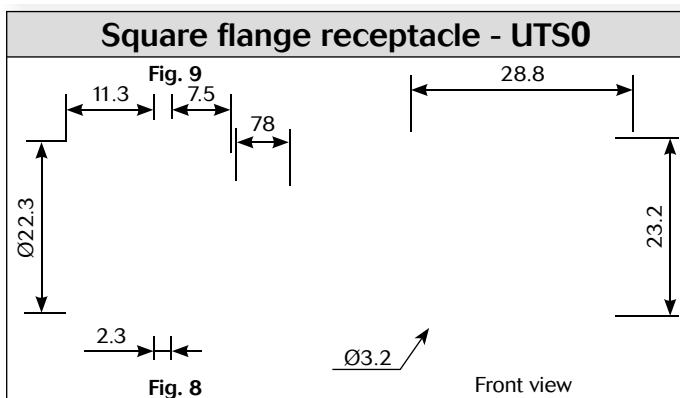
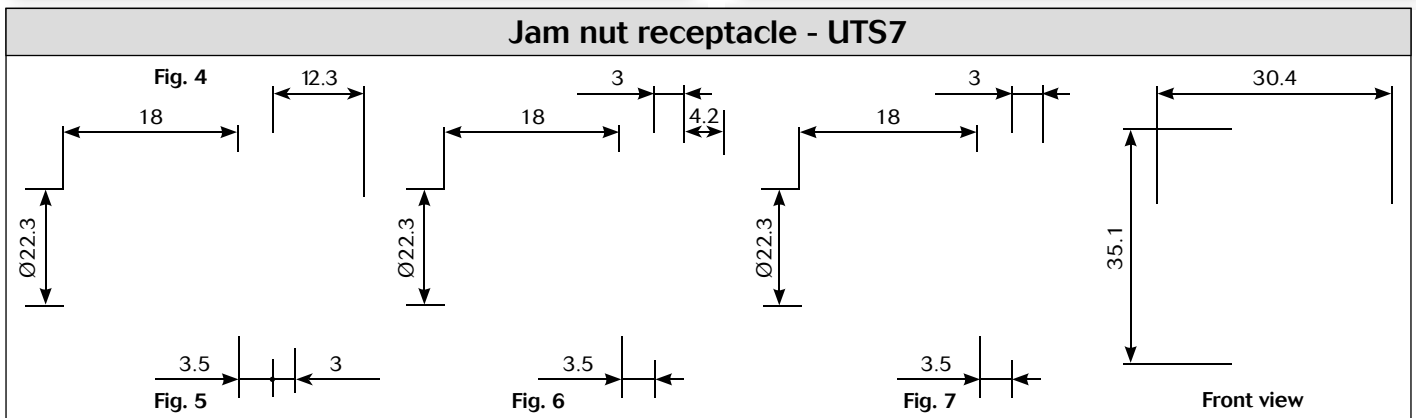
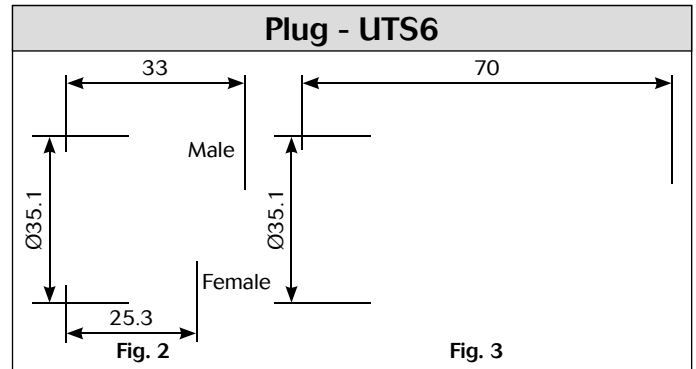
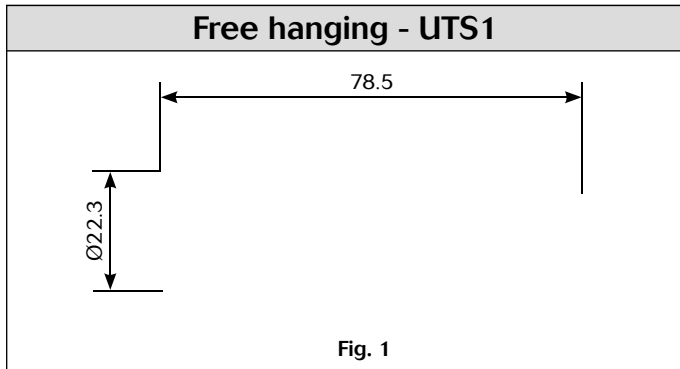
Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 131	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC1419P</b>	<b>UTS1JC1419S</b>
	Plug	Without (Fig.2)	<b>UTS61419P</b>	<b>UTS61419S</b>
	Plug	Cable gland (Fig.3)	<b>UTS6JC1419P</b>	<b>UTS6JC1419S</b>
	Jam nut receptacle	Without (Fig.4)	<b>UTS71419P</b>	<b>UTS71419S</b>
PCB contacts supply separately see page 131	Jam nut receptacle	Without (Fig.4)	<b>UTS71419P</b>	<b>UTS71419S</b>
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig.8)	<b>UTS014E19P</b>	<b>UTS014E19S</b>
	Plug	Without (Fig.2)	<b>UTS614E19P</b>	<b>UTS614E19S</b>
		Cable gland (Fig.3)	<b>UTS6JC14E19P</b>	<b>UTS6JC14E19S</b>
	Jam nut receptacle	Without (Fig.5)	<b>UTS714E19P</b>	<b>UTS714E19S</b>
PCB contacts loaded	Square flange receptacle	Without (Fig.9)	<b>UTS014D19P</b>	<b>UTS014D19S</b>
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.6)	<b>UTS714D19P32</b>	<b>UTS714D19S32</b>
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	<b>UTS714D19P</b>	<b>UTS714D19S</b>

Sealed unmated

## Square flange receptacle



## Dimensions





### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS14DCG	UTS14DCGR

Handle
Part number
SHANDLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS614DCG

Square flange sealing cap	
Metal terminal	
Part number	Part number
UTS14DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
85005588A	85005597

Gasket
Part numbers / neoprene
UTFD14B

Crimp tooling		
Contacts	Contact size	Part number of head
RM RC 24V8K <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RM
RM RC 20V8K <sup>(1)</sup>		S20RM
RM RC 18V8K <sup>(1)</sup>		S20RM
SM SC 24V8S <sup>(2)</sup>		S20SCM20
SM SC 24VL3S <sup>(3)</sup>		S20SCM20
SM SC 20V8S <sup>(2)</sup>		S20SCM20
SM SC 20VL3S <sup>(3)</sup>		S20SCM20

(1): example of plating, for other plating see UTS catalog page 143  
 (2): contact reeled  
 (3): loose contact

Color coding rings		
G for Green	Part numbers	
	Receptacles	Plugs
	UTS714CCRR	UTS614CCRR
y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRG	UTS614CCRG

\* Add G for Green, Y for Yellow, R for Red

# UTS Series

## 1419 - 14E19/14D19



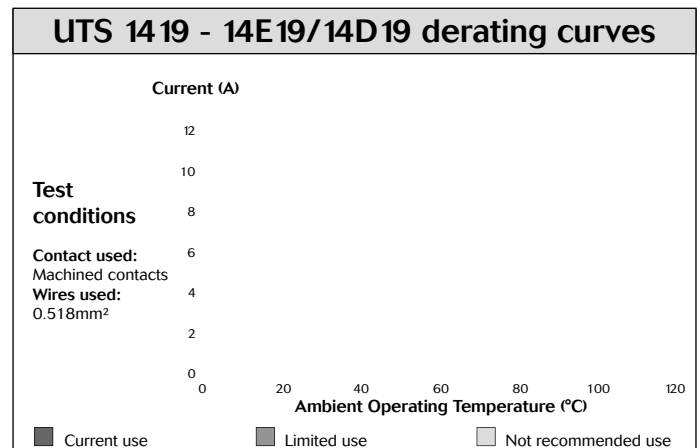
19 contacts  
5A/32V  
per IEC 61984

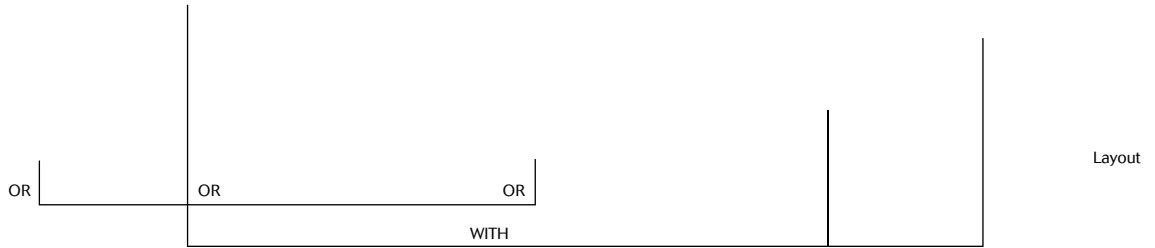
### Contacts

#20	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	26-24	RM24V8K <sup>(1)</sup>	RC24V8K <sup>(1)</sup>	-	1.58
		22-20	RM20V8K <sup>(1)</sup>	RC20V8K <sup>(1)</sup>	-	1.58
		20-18	RM18V8K <sup>(1)</sup>	RC18V8K <sup>(1)</sup>	-	2.1
	stamped & formed reeled contacts	26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
	PCB	Machined <sup>(3)</sup>	-	RM5016K	RC5016K	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1-TK6  
 (3): For dimensions see page 148

Electrical characteristics	
<b>UTS 1419</b> <b>UL</b> 5A 250V UL94 V-0	<b>UTS 14E19/14D19</b> <b>UL</b> 4A 250V UL94 HB
<b>CSA</b> 4A 250V UL94 V-0	<b>CSA</b> 4A 250V UL94 HB
<b>IEC</b> 5A 32V 1.5kV 3	



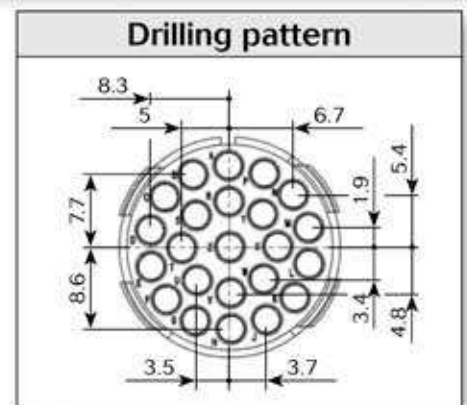
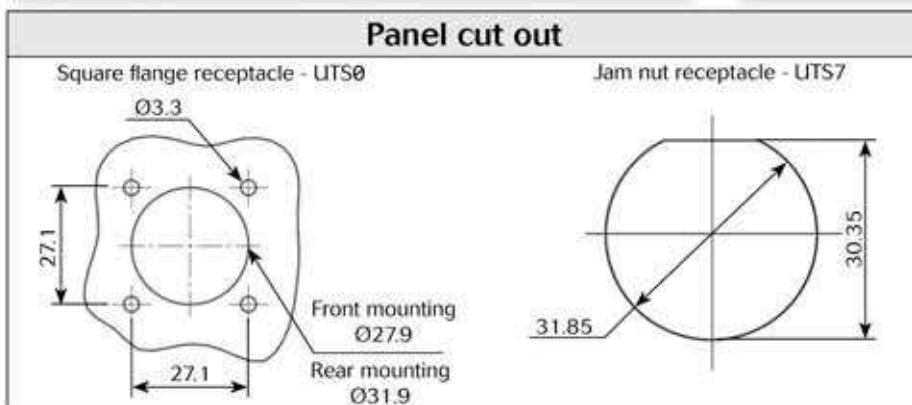
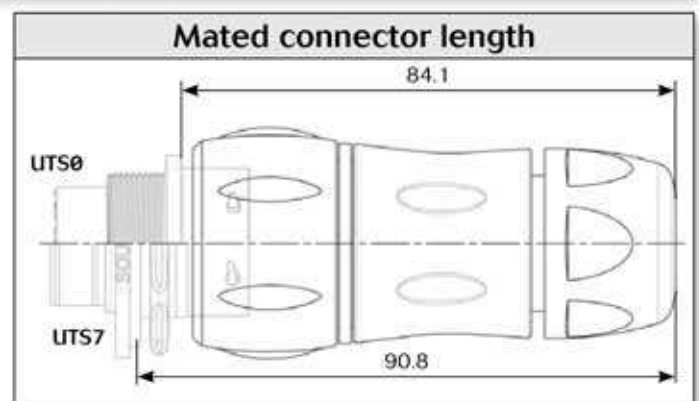
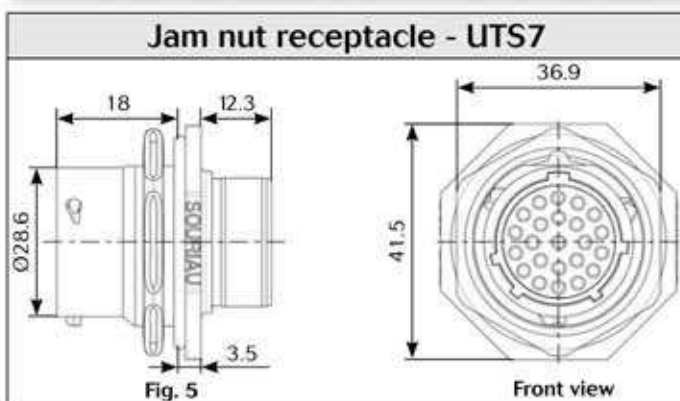
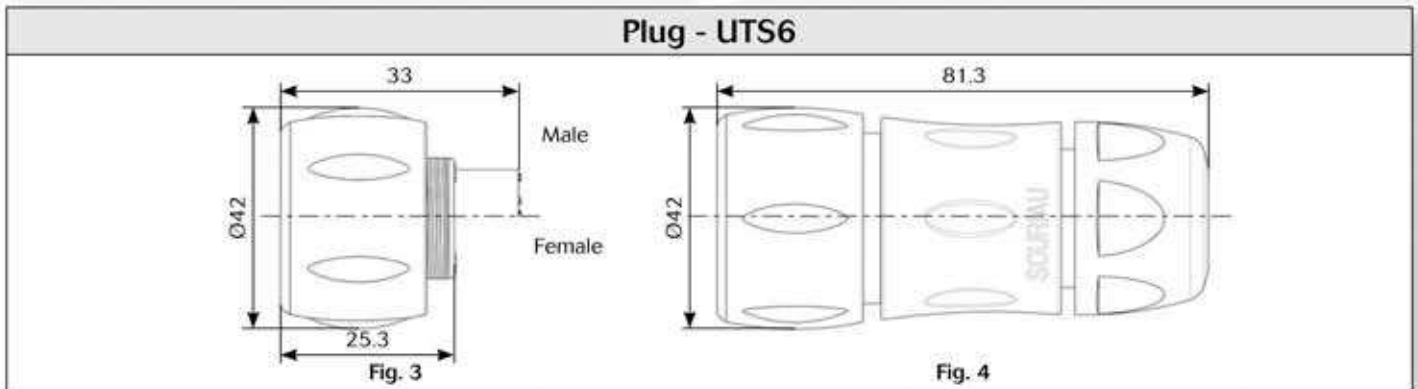
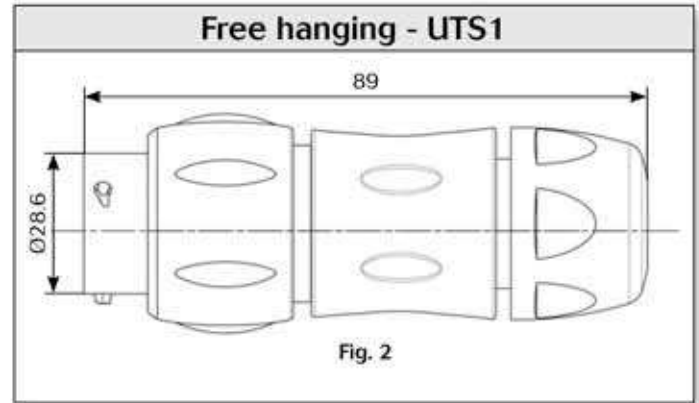
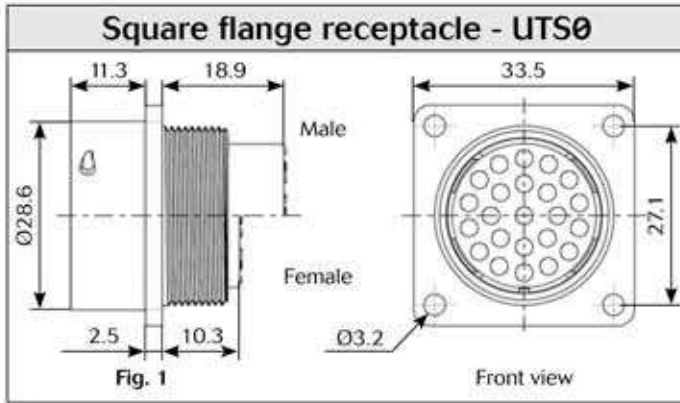


## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supply separately see page 135	Square flange receptacle	Without (Fig.1)	<b>UTS01823P</b>	<b>UTS01823S</b>
	Free hanging receptacle	Cable gland (Fig.2)	<b>UTS1JC1823P</b>	<b>UTS1JC1823S</b>
	Plug	Without (Fig.3)	<b>UTS61823P</b>	<b>UTS61823S</b>
	Plug	Cable gland (Fig.4)	<b>UTS6JC1823P</b>	<b>UTS6JC1823S</b>
	Jam nut receptacle	Without (Fig.5)	<b>UTS71823P</b>	<b>UTS71823S</b>
PCB contacts supply separately see page 135	Square flange receptacle	Without (Fig.1)	<b>UTS01823P</b>	<b>UTS01823S</b>
	Jam nut receptacle	Without (Fig.5)	<b>UTS71823P</b>	<b>UTS71823S</b>



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS18DCG	UTS18DCGR

Handle
Part number
SHANGLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS618DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS18DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
8500- 5590A	8500- 5599

Gasket
Part numbers / neoprene
UTFD16B

Crimp tooling			
Contacts	Contact size	Part number of head	
RM RC 28MI K <sup>(1)</sup>	Standard contacts #16 Ø 1.6mm	S16RCM20	
RM RC 24M9K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 3K <sup>(1)</sup>		S16RCM20	
RM RC 20MI 2K <sup>(1)</sup>		S16RCM20	
RM RC 16M23K <sup>(1)</sup>		S16RCMI 6	
RM RC 14M50K <sup>(1)</sup>		S16RCMI 450	
RM RC 14M80K <sup>(1)</sup>		S16RCMI 4	
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	MI0S- 1J
RCDXK1D28K			MI0S- 1J
RM RC DX60xxD28K	MI0S- 1J		
RM RC DXK10D28 + yor k090	MI0S- 1J		
RM RC DX60xxD28	MI0S- 1J		

(1): example of plating, for other plating see UTS catalog page 143

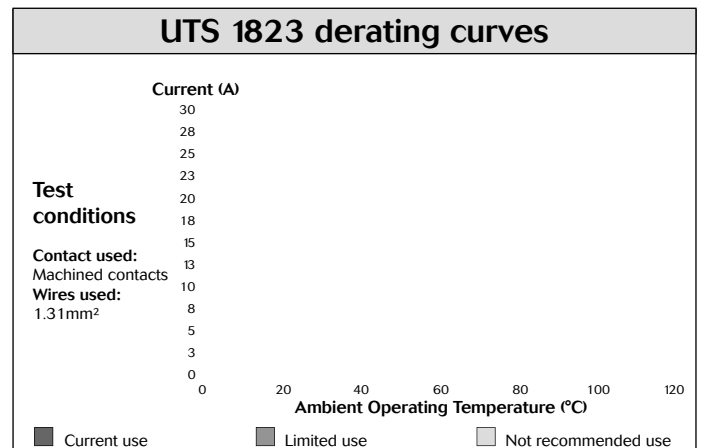


### Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28MI K <sup>(1)</sup>	RC28MI K <sup>(1)</sup>	0.55	1.1
		26-24	RM24MØK <sup>(1)</sup>	RC24MØK <sup>(1)</sup>	0.8	1.6
		22-20	RM20MI 3K <sup>(1)</sup>	RC20MI 3K <sup>(1)</sup>	1.18	1.8
		22-20	RM20MI 2K <sup>(1)</sup>	RC20MI 2K <sup>(1)</sup>	1.18	2.2
		20-16	RM16M23K <sup>(1)</sup>	RC16M23K <sup>(1)</sup>	1.8	3.2
		16-14	RM14M50K <sup>(1)</sup>	RC14M50K <sup>(1)</sup>	2.05	3.2
		16-14	RM14MØK <sup>(1)</sup>	RC14MØK <sup>(1)</sup>	2.28	3.2
	Stamped & formed reeled contacts	26-24	SM24MI TK6 <sup>(1)(2)</sup>	SC24MI TK6 <sup>(1)(2)</sup>	0.89-1.28	-
		22-20	SM20MI TK6 <sup>(1)(2)</sup>	SC20MI TK6 <sup>(1)(2)</sup>	1.17-2.08	-
		18-16	SM16MI TK6 <sup>(1)(2)</sup>	SC16MI TK6 <sup>(1)(2)</sup>	3.0	-
18-16		SM16MI 1TK6 <sup>(1)(2)</sup>	SC16MI 1TK6 <sup>(1)(2)</sup>	2.0-3.0	-	
14		SM14MI TK6 <sup>(1)(2)</sup>	SC14MI TK6 <sup>(1)(2)</sup>	3.2	-	
PCB	Machined <sup>(3)</sup>	-	RM20MI 2E8K <sup>(1)</sup>	RC20MI 2E84K <sup>(1)</sup>	-	-
Coaxial	Cable Multipiece	-	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	RMDXK10D28 + yor k090	RCDXK1D28 + yor k090	-	-
	Twisted pair Monocrimp	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts Plastic optical fibre	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1-TK6  
 (3): For dimensions see page 148

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> 9A 63V 1.5kV 3</p>





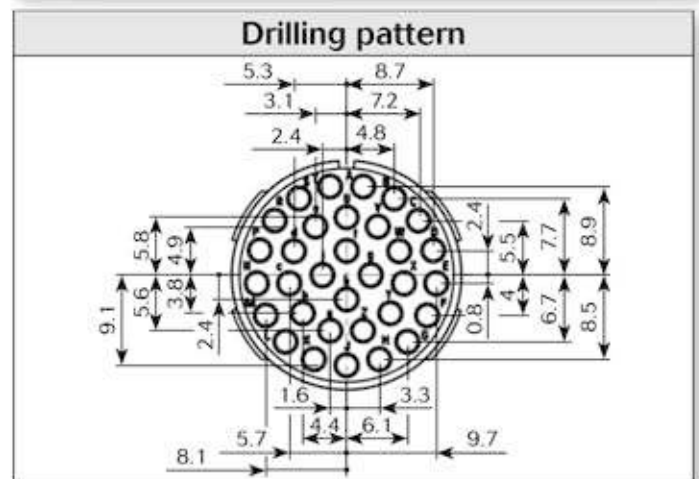
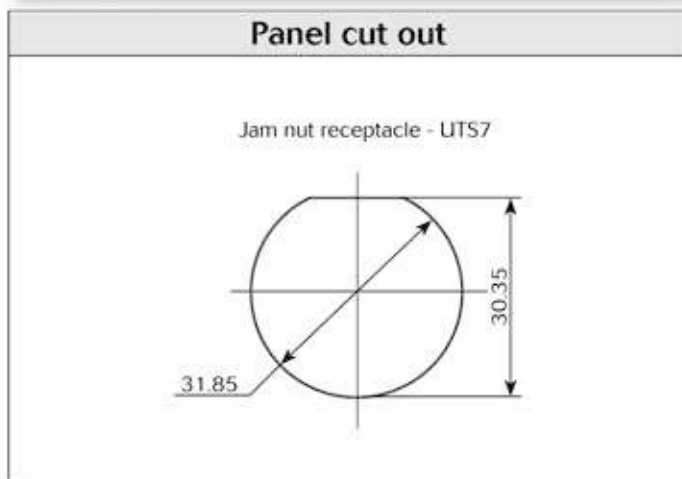
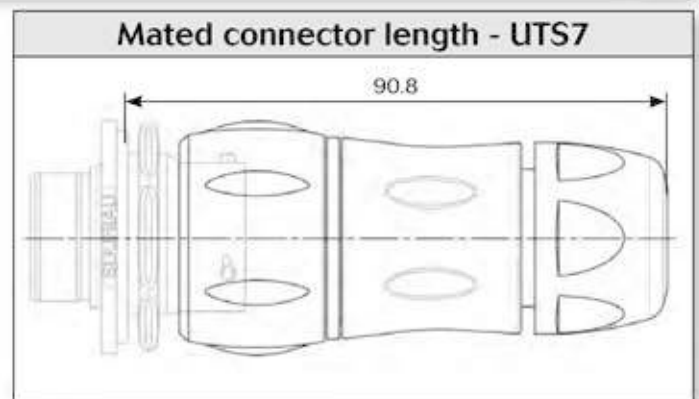
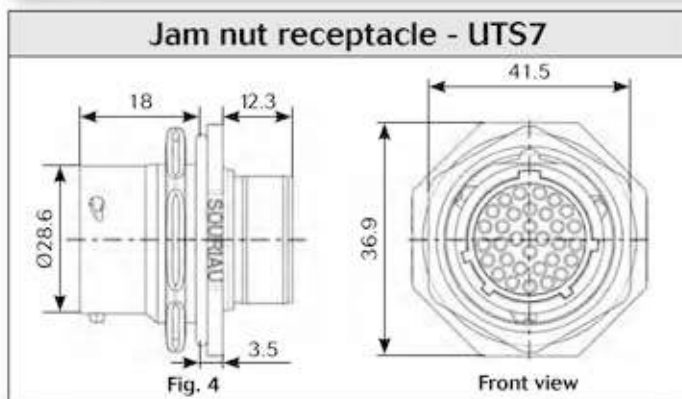
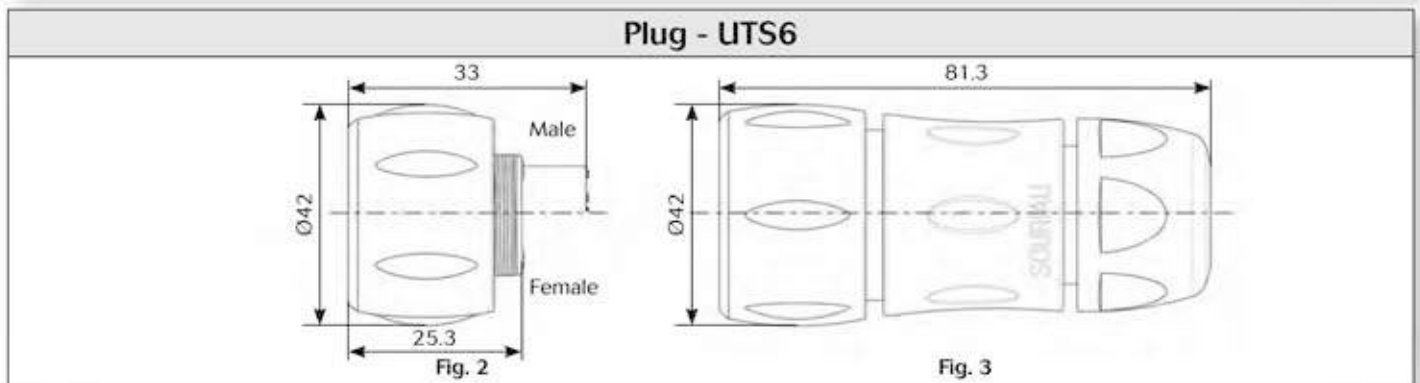
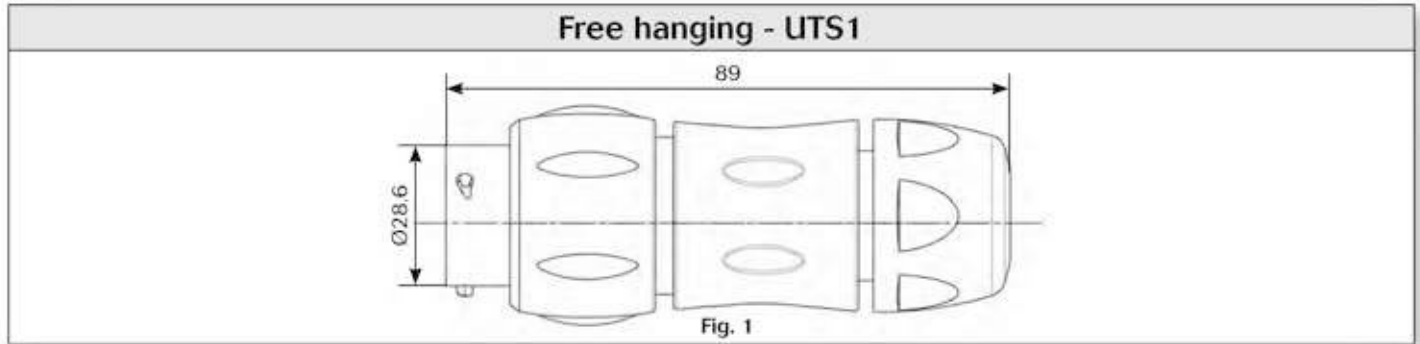


## Specifications

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contact supply separately see page 139	Free hanging receptacle	Cable gland (Fig.1)	<b>UTS1JC1832P</b>	<b>UTS1JC1832S</b>
	Plug	Without (Fig.2)	<b>UTS61832P</b>	<b>UTS61832S</b>
	Plug	Cable gland (Fig.3)	<b>UTS6JC1832P</b>	<b>UTS6JC1832S</b>
	Jam nut receptacle	Without (Fig.4)	<b>UTS71832P</b>	<b>UTS71832S</b>
PCB contacts supply separately see page 139	Jam nut receptacle	Without (Fig.4)	<b>UTS71832P</b>	<b>UTS71832S</b>



### Dimensions



Note: all dimensions are in mm



### Accessories and tooling

Jam nut sealing caps	
Metal terminal	
Part number	Part number
UTS18DCG	UTS18DCGR

Handle
Part number
SHANDLES

Tool kit
Part number
TOOLKIT

Plug sealing cap
Part number
UTS618DCG

Square flange sealing cap	
Metal terminal	
Part number	
UTS18DCGE	

Plastic protective cap	
Part numbers	
Receptacle cap	Plug cap
8500-5590A	8500-5599

Gasket
Part numbers / neoprene
UTFD16B

Crimp tooling		
Contacts	Contact size	Part number of head
RM RC 24V8K <sup>(1)</sup>	Standard contacts #20 Ø 1mm	S20RM
RM RC 20V8K <sup>(1)</sup>		S20RM
RM RC 18V8K <sup>(1)</sup>		S20RM
SM SC 24V8S <sup>(2)</sup>		S20SCM20
SM SC 24VL3S <sup>(3)</sup>		S20SCM20
SM SC 20V8S <sup>(2)</sup>		S20SCM20
SM SC 20VL3S <sup>(3)</sup>		S20SCM20

(1): example of plating, for other plating see UTS catalog page 143  
 (2): contact reeled  
 (3): loose contact

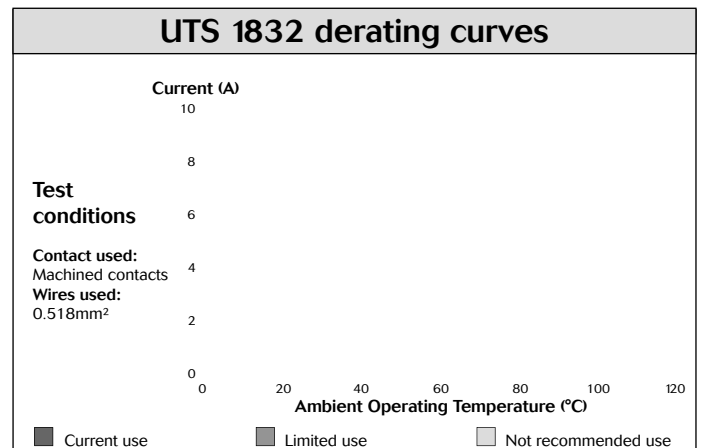


### Contacts

#20	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	26-24	RM24V8K <sup>(1)</sup>	RC24V8K <sup>(1)</sup>	-	1.58
		22-20	RM20V8K <sup>(1)</sup>	RC20V8K <sup>(1)</sup>	-	1.58
		20-18	RM18V8K <sup>(1)</sup>	RC18V8K <sup>(1)</sup>	-	2.1
	stamped & formed reeled contacts	26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		26-24	SM24V8TK6 <sup>(2)</sup>	SC24V8TK6 <sup>(2)</sup>	-	0.89-1.58
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
		22-20	SM20V8TK6 <sup>(2)</sup>	SC20V8TK6 <sup>(2)</sup>	-	1.17-2.08
	PCB	Machined <sup>(3)</sup>	-	RM5016K	RC5016K	-

(1): Example of plating, for other plating see page 143  
 (2): Loose piece contact available if putting L. Example: SM20ML1-TK6  
 (3): For dimensions see page 148

Electrical characteristics
<p><b>UL</b> 5A 250V UL94 V-0</p> <p><b>CSA</b> 4A 250V UL94 V-0</p> <p><b>IEC</b> 4A 32V 1.5kV 3</p>





UTS Series

# Contacts

- Description ..... 142
- Contact plating selector guide ..... 143
- Contact selector guide ..... 144
- Packaging ..... 144
- Crimp contacts ..... 145
- #16 coaxial contacts ..... 147
- PCB contacts ..... 148
- Fibre optic contacts ..... 149



## Contacts

### Description

The UTS series is delivered with (solder and PCB versions) or without contact (crimp version). When contacts are not loaded, this series offers the unique possibility to use the same contact in any layout as long as it receives the same active part size. Thus it is possible to buy only one contact reference and equip all connectors even if housings are different.

The main benefit is the standardisation which means reduction of inventory cost.

Bearing in mind that any additional tool or complicated assembly process should be avoided, our contacts are based on a snap-in principle which avoid the use of an insertion tool.

Crimp contacts are available in different versions:

• machined

• stamped & formed

• coaxial

• fiber optic

In addition, UTS series can obviously be equipped with solder contacts, PCB contacts, screw termination.



## Contact plating selector guide

As soon as you know what contact size you need, you next have to decide on which type to use.

Souriau proposes mainly two different types of electrical contacts:

- Machined
- Stamped & formed

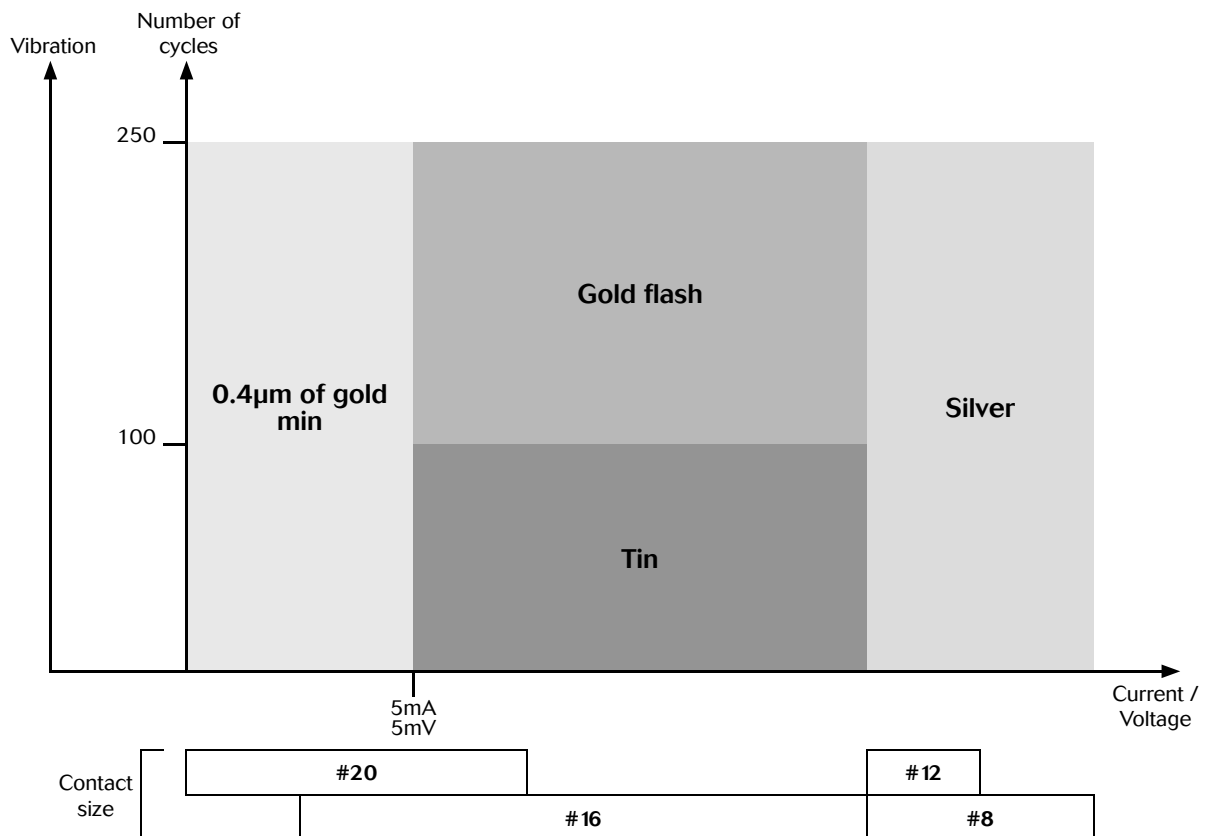
Machined contacts are generally chosen for low quantities purpose as well as a better solution for power applications.

Stamped & formed contacts offer the ability to be crimped automatically which makes them more suitable for high volume production applications.

Then comes the question: What plating should I choose ?

Hereunder is a graph with criteria to guide you:

*NB: do not mix different plating (e.g. tin plated pin contact with gold plated socket contact).*







### Contact selector guide

#### Contact preloaded

Electrical characteristics: contact resistance		
#20 Ø1mm	Machined	< 4mΩ
#16 Ø1.6mm	Machined	< 3mΩ

Available platings (contact preloaded)
Min 0.4μ gold over 2μ Ni

#### Contact supply separately

Electrical characteristics: contact resistance		
#20 Ø1mm	Machined	< 6mΩ
	Stamped & formed	< 15mΩ
#16 Ø1.6mm	Machined	< 3mΩ
	Stamped & formed	< 6mΩ
#12 Ø2.4mm	Machined	< 5mΩ
#8 Ø3.6mm	Machined	< 5mΩ

Available platings (contact supply separately)	
A	2μ Ni + 2μ Ag
J	Gold flash over 2μ Ni
K	Min 0.4μ gold over 2μ Ni
S31	Active part: Gold flash over Ni Crimp area: Nickel
S18	Active part: 0.75μ gold min over 2μ Ni Crimp area: 1.3μ tin over Ni Other: Nickel
S25 S26	Active part: 0.75μ Au over Ni Crimp area: flash Au over Ni
T	T: 2μm Ni mini all over + 3 to 5 μm Sn all over
TK6	2-5μ Sn pre-plated

### Packaging

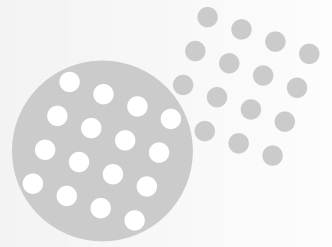
Conscious of the wide variety of applications, contact packaging has been considered for small series (bulk packaging) and high volume production (reeled contacts):

#### Size contacts #20 & #16

- 25 pieces bulk packing (stamped & formed contacts)
- 50 pieces bulk packing (machined contacts)
- 1000 pieces bulk packing (machined contacts)
- 3000 pieces reeled (stamped & formed contacts)
- 5000 pieces reeled (machined contacts)

#### Size contacts #12 & #8

- 100 pieces bulk packing (stamped & formed contacts)



## Crimp contacts

### Standard version

Contact size	Type	Wire size		Part number		Max wire Ø	Max insulator Ø	Plating available
		AWG	mm <sup>2</sup>	Male	Female			
#20 Ø1 mm	Machined	26-24	0.13-0.20	<b>RM24V8K</b>	<b>RC24V8K</b>		1.58 max	K
	Stamped & Formed	26-24	0.13-0.25	<b>SM24V8</b> - (1)	<b>SC24V8</b> - (1)		0.89-1.58	TK6 S25 (female) S26 (male)
				<b>SM24VL3</b> - (2)	<b>SC24VL3</b> - (2)			
	Machined	22-20	0.32-0.52	<b>RM20V8K</b>	<b>RC20V8K</b>		1.58 max	K
	Stamped & Formed	22-20	0.35-0.5	<b>SM20V8</b> - (1)	<b>SC20V8</b> - (1)		1.17-2.08	TK6 S25 (female) S26 (male)
<b>SM20VL3</b> - (2)				<b>SC20VL3</b> - (2)				
Machined	20-18	0.50-0.93	<b>RMI8V8K</b>	<b>RC18V8K</b>		2.10 max	K	
#16 Ø1.6 mm	Machined	30-28	0.05-0.08	<b>RM28MI-</b>	<b>RC28MI-</b>	0.55	1.1	K, J, T
	Machined	26-24	0.13-0.2	<b>RM24MØ-</b>	<b>RC24MØ-</b>	0.8	1.6	K, J, T
	Stamped & Formed	26-24	0.13-0.25	<b>SM24MI</b> - (1)	<b>SC24MI</b> - (1)	0.89-1.28	Insulation grip	S31, S18, TK6
				<b>SM24ML1</b> - (2)	<b>SC24ML1</b> - (2)			
	Machined	22-20	0.32-0.52	<b>RM20MI3-</b>	<b>RC20MI3-</b>	1.18	1.8	K, J, T
				<b>RM20MI2-</b>	<b>RC20MI2-</b>		2.2	
	Stamped & Formed	22-20	0.35-0.5	<b>SM20MI</b> - (1)	<b>SC20MI</b> - (1)	1.17-2.08	Insulation grip	S31, S18, TK6
				<b>SM20ML1</b> - (2)	<b>SC20ML1</b> - (2)			
	Machined	20-16	0.52-1.5	<b>RMI6M23-</b>	<b>RC16M23-</b>	1.8	3.2	K, J, T
	Stamped & Formed	18-16	0.8-1.5	<b>SMI6MI</b> - (1)	<b>SC16MI</b> - (1)	3.0	No insulation grip	S31, S18, TK6
				<b>SMI6ML1</b> - (2)	<b>SC16ML1</b> - (2)			
Stamped & Formed	18-16	0.8-1.5	<b>SMI6MI1</b> - (1)	<b>SC16MI1</b> - (1)	2.0-3.0	Insulation grip	S31, S18, TK6	
			<b>SMI6ML11</b> - (2)	<b>SC16ML11</b> - (2)				
Machined	16-14	1.5-2.5	<b>RMI4M50-</b>	<b>RC14M50-</b>	2.05	3.2	K, J, T	
Machined	16-14	1.5-2.5	<b>RMI4M80-</b>	<b>RC14M80-</b>	2.28	3.2	K, J, T	
Stamped & Formed	14	2.0-2.5	<b>SMI4MI</b> - (1)	<b>SC14MI</b> - (1)	3.2	No insulation grip	S31, S18, TK6	
			<b>SMI4ML1</b> - (2)	<b>SC14ML1</b> - (2)				
#12 Ø2.4 mm	Machined	22	0.13-0.4	<b>82911457NA</b>	<b>82911456A</b>	-	4.9	A, K
		20	0.5	<b>82911459NA</b>	<b>82911458A</b>			
		18	0.75-1.0	<b>82911461NA</b>	<b>82911460A</b>			
		16	1.5	<b>82911463NA</b>	<b>82911462A</b>			
		14	2.5	<b>82911465NA</b>	<b>82911464A</b>			
		12	4	<b>82911467NA</b>	<b>82911466A</b>			
#8 Ø3.6 mm	Machined	16	1.5	<b>82913601A</b>	<b>82913600A</b>	-	6.5	A
		14	2.5	<b>82913603A</b>	<b>82913602A</b>			
		12	4	<b>82913605A</b>	<b>82913604A</b>			
		10	6.0	<b>82913607A</b>	<b>82913606A</b>			
		8	10.0	<b>82913609A</b>	<b>82913608A</b>			

(1) contact reeled (2) loose contact

Example: **RM24V8K** - Size #20, Machined, AWG24 wire.



## Crimp contacts

### First Mate Last Break contacts

Contact size	Type	Wire size		Part number		Max wire Ø	Max insulator Ø	Color band		Plating available	
		AWG	mm <sup>2</sup>	Male	Female			Front	Rear		
#16 Ø1.6 mm Longer male contact (+1mm)	Machined	30-28	0.05-0.08	<b>RM28MI GE1</b> □	-	0.55	1.1	-	Red	□ = K, J or T	
		26-24	0.13-0.2	<b>RM24MI GE1</b> □		0.8	1.6	Red	Red		
		22-20	0.32-0.52	<b>RM20MI 3GE1</b> □		1.18	1.8	1.8	Black		Red
				<b>RM20MI 2GE1</b> □			2.2	2.2	Blue		Red
		20-16	0.52-1.5	<b>RMI 6M23GE1</b> □		1.8	3.2	-	Red		
		16-14	1.5-2.5	<b>RMI 4M50GE1</b> □		2.05	-	-	Red		
16-14	1.5-2.5	<b>RMI 4M80GE1</b> □	2.28	-	-	Red					
#16 Ø1.6 mm Shorter female contact (-0.7mm)	Machined	30-28	0.05-0.08	-	<b>RC28MI GE7</b> □	0.55	1.1	-	Blue	□ = K, J or T	
		26-24	0.13-0.2		<b>RC24MI GE7</b> □	0.8	1.6	Red	Blue		
		22-20	0.32-0.52		<b>RC20MI 3GE7</b> □	1.18	1.8	1.8	Black		Blue
					<b>RC20MI 2GE7</b> □		2.2	2.2	Blue		Blue
		20-16	0.52-1.5		<b>RC16MI23GE7</b> □	1.8	3.2	-	Blue		
		16-14	1.5-2.5		<b>RC14MI50GE7</b> □	2.05	-	-	Blue		
16-14	1.5-2.5	<b>RC14MI80GE7</b> □	2.28	-	-	Blue					

Example: **RM16M8GE1K** - Size #16, Machined, Longer male, AWG16 wire.

### How to make FMLB / LMFB connection

Contact 1 \ Contact 2	Standard male contact	Standard female contact	Longer male contact
Standard male contact		✓	
Standard female contact	✓		✓ FMLB
Shorter female contact	✓ LMFB		

First Mate Last Break contacts should be chosen only if the cavity is not marked with the earth symbol. For cavities marked with the earth symbol, standard contacts will fulfill the same role as a first mate, last break contact used in a standard cavity.

Ground symbol



## #16 coaxial contacts

### Coaxial contact range

We provide 2 types of coaxial contacts suitable for 50 or 75Ω, coaxial cable or twisted pair cable.

#### Monocrimp coaxial contact

- The monocrimp one-piece coaxial contacts offer high reliability plus the economic advantage of a 95% reduction in installation time over conventional assembly methods.
- This economy is achieved by simultaneously crimping both the inner conductor and outer braid or drain wire.

#### Multipiece crimp coaxial contact

- The inner conductor and outer braid is crimped individually.
- The thermoplastic insulating bushing in the outer body is designed to accept and permanently retain the inner contact.
- An outer ferrule is used to connect the braid to the outer contact and provide cable support to ensure against bending and vibration.

#### Suitable for Coaxial cable or Twisted cable

- For jacket diameter from 1.78 to 3.05mm  
Inner conductor up to 2.44mm diameter
- For jacket diameter from 0.64 to 1.45mm  
Inner conductor from AWG30 to AWG24

#### Contacts for coaxial cable summary

Contact type	Contact range		Contact part number with cable combination	Cabling notice
	Male contact	Female contact		
Multipiece	<b>RMDXK10D28</b>	<b>RCDXK1D28</b>	See page 176	See pages 180 & 181
Monocrimp	<b>RMDX60xxD28</b>	<b>RCDX60xxD28</b>		See page 182

#### Contacts for twisted pairs cable summary

Contact type	Contact range		Contact part number with cable combination	Cabling notice
	Male contact	Female contact		
Multipiece	<b>RMDXK10D28 + YCRK090</b>	<b>RCDXK1D28 + YCRK090</b>	See page 177	See page 178
Monocrimp	<b>RMDX60xxD28</b>	<b>RCDX60xxD28</b>		See page 179



## PCB contacts

### PCB contacts

#### PCB soldering

UTS range can be carried out with a wave soldering process, but not reflow soldering process.  
All high temperature processes are prohibited.

Contact size	Type	Part number		Plating
		Male	Female	
#20 Ø1 mm	Short version	<b>RM50A7K</b>	<b>RCV50A7K</b>	K
	Long version	<b>RM5016K</b>	<b>RCV5016K</b>	
#16 Ø1.6mm	Short version	<b>RM20MI 2E8</b> □	<b>RC20MI 2E8</b> □	□=K or T
	Long version	<b>RM20MI 2E83</b> □	<b>RC20MI 2E83</b> □	
			<b>RC20MI 2E84</b> □	

Exemple: **RM50A7K** - Size #20, Short version, male.

#### Nominal length (G)

Dimension of dipsolder contacts out of connector  
(contacts to be ordered separately).



#### UTS0

Connector size	Pin contact		Socket contact		
	RM20M12E8*□	RM20M12E83*□	RC20M12E8*□	RC20M12E83*□	RC20M12E84*□
10	4	9.1	3.3	8.5	12.1
12	4	9.1	3.3	8.5	12.1
14	4	9.1	3.3	8.5	12.1
16	4	9.1	3.3	8.5	12.1

#### UTS7

Connector size	Pin contact				Socket contact			
	RM20M12E8*□	RM20M12E83*□	RMW50A7K	RMW5016K	RC20M12E8*□	RC20M12E83*□	RCW50A7K	RCW5016K
10	4.1	9.2	9.51	10.41	4.65	8.5	2.4	3.04
12	4	9.2	9.51	10.41	3.3	8.5	2.4	3.04
14	4	9.2	9.51	10.41	3.3	8.5	2.4	3.04
16	4	9.2	9.51	10.41	3.3	8.5	2.4	3.04

\* Plating indication: see plating table



### Fibre optic contacts

Description
<p><b>Size 16 Fibre optic contacts for TRIM TRIO® connectors</b></p> <p>Size 16 Fibre optic contacts are optical contacts designed for the integration of optical links in all TRIM TRIO® cable connectors.</p> <p><b>The Fibre optic contacts are designed to accommodate:</b></p> <ul style="list-style-type: none"> <li>• Plastic Optical Fibre (POF) <ul style="list-style-type: none"> <li>1 mm core and 2.2 mm jacket</li> </ul> </li> <li>• Plastic Clad Fibre (PCF) <ul style="list-style-type: none"> <li>230µm core and 2.2 mm jacket</li> </ul> </li> </ul> <p><b>Typical features and benefits are:</b></p> <ul style="list-style-type: none"> <li>• Socket contact is spring loaded to avoid any air gap between the two optical faces.</li> <li>• Low insertion loss is provided by high precision pieces.</li> <li>• Single jumpers, multiway harness and active device housings can be supplied regarding customer requirement.</li> </ul>

Technical characteristics
<p><b>Performance</b></p> <ul style="list-style-type: none"> <li>• Fibre type: .....POF</li> <li>• Wave length:.....650 nm</li> <li>• Optical insertion loss (typ.): .....2 dB max.</li> <li>• Jacketed external diameter:.....2.2mm</li> <li>• Temperature range:.....-25°C to +70°C</li> <li>• Cable retention:.....49N</li> <li>• Mating cycles without cleaning:.....50</li> <li>• Max. mating cycles:.....500</li> </ul> <p><b>Construction</b></p> <ul style="list-style-type: none"> <li>• Contact body: Copper alloy</li> </ul> <p><b>Connector accommodation</b></p> <p>Any TRIM TRIO® size 16 contact can be used in any contact position in any connector in the TRIM TRIO® size 16 interconnection system : UTP, UTS, UTG, UTO.</p>



### Fibre optic contacts

Ordering information	
POF Contacts (Plastic Optical Fibre)	
Male contact.....RMPCF1000	Female contact.....RCPCF1000B

POF Contact (Plastic Optical Fibre)																																					
<p><b>STANDARD TOOLING KIT - P/N 80MS0004</b> The <i>standard tooling kit</i> is made of the part numbers below that can be ordered separately as well.</p> <table border="1"> <thead> <tr> <th>Part numbers</th> <th>Descriptions</th> </tr> </thead> <tbody> <tr> <td>80VD0005</td> <td>Stripping tool</td> </tr> <tr> <td>80VD0025</td> <td>Automatic stripping tool for Ø 0.5 mm, 0.6 mm, 0.7 mm &amp; 3.8 mm</td> </tr> <tr> <td>80VD0006</td> <td>Ruler</td> </tr> <tr> <td>80VP0005</td> <td>Polishing plate</td> </tr> <tr> <td>80VP0013</td> <td>Non slip base (to hold the polishing plate)</td> </tr> <tr> <td>80VP0014</td> <td>Polishing disk (grain size 9µm)</td> </tr> <tr> <td>80VP0018</td> <td>Polishing tool</td> </tr> <tr> <td>80VP0019</td> <td>Polishing disk (grain size 30µm)</td> </tr> <tr> <td>80VS0002</td> <td>Crimping plier</td> </tr> </tbody> </table>	Part numbers	Descriptions	80VD0005	Stripping tool	80VD0025	Automatic stripping tool for Ø 0.5 mm, 0.6 mm, 0.7 mm & 3.8 mm	80VD0006	Ruler	80VP0005	Polishing plate	80VP0013	Non slip base (to hold the polishing plate)	80VP0014	Polishing disk (grain size 9µm)	80VP0018	Polishing tool	80VP0019	Polishing disk (grain size 30µm)	80VS0002	Crimping plier	<p><b>SPECIFIC TOOLING LIST - can be ordered only separately</b></p> <table border="1"> <thead> <tr> <th>Part numbers</th> <th>Descriptions</th> </tr> </thead> <tbody> <tr> <td>80VG0010</td> <td>Needle</td> </tr> <tr> <td>80VG0015</td> <td>Capsule</td> </tr> <tr> <td>80VG0016</td> <td>Syringe</td> </tr> <tr> <td>80VND005</td> <td>Dry air spray</td> </tr> <tr> <td>80VND006</td> <td>Optical paper</td> </tr> <tr> <td>80VND012</td> <td>Dropping bottle</td> </tr> <tr> <td>80VND008</td> <td>Wiping solvent</td> </tr> </tbody> </table>	Part numbers	Descriptions	80VG0010	Needle	80VG0015	Capsule	80VG0016	Syringe	80VND005	Dry air spray	80VND006	Optical paper	80VND012	Dropping bottle	80VND008	Wiping solvent
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# UTS Series

## Contacts







UTS Series

# Technical information

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## Tooling

### Automatic crimping tools

**Mecal is leader in manufacturing tooling for crimping terminals over a stripped wire.**

Established in 1976, Mecal has become one of the world's leading companies dedicated to the design and manufacture of semi automatic production tools for strip fed, open barrel crimp terminals, serving the Automotive, Telecom and Datacomm industry.

**The extreme environment interconnect specialist "from deep sea to deep space".**

Souriau designs manufactures and markets high performance interconnect solutions for severe environments dedicated to the aerospace, defence, light and heavy industry markets.

**Souriau has been working in partnership with Mecal for a good number of years. With sales offices located in all major industrial regions of the world, the combined strengths of both organisations has resulted in a truly global solution to all your production tooling needs.**

Mini Applicator

Stripper

Presses

Mecal sales network:

[www.mecal.net/eng/retevendita.php](http://www.mecal.net/eng/retevendita.php)



### Crimptooling table

#### Standard contacts

Contact size	Part number	Head	Handles			
#20 1mm	RM RC 24V8 -	S20RCM	SHANDLES	SHANDLES		
	RM RC 20V8 -					
	RM RC 18V8 -					
	SM 24V8S <sup>(1)</sup> SC 24V8S <sup>(1)</sup>	S20SCM20				
	SM 24VL3S <sup>(2)</sup> SC 24VL3S <sup>(2)</sup>					
	SM SC 20V8S <sup>(1)</sup> SM SC 20VL3S <sup>(2)</sup>					
#16 1.6mm	RM RC 28MI-	S16RCM20			SHANDLES	51060210936
	RM RC 24MB-					
	RM RC 20MI 3- RM RC 20MI 2-					
	RM RC 16M23-	S16RCMI 6				
	RM RC 14M50-	S16RCMI 450				
	RM RC 14M80-	S16RCMI 4				
	SM SC 24MI- SM SC 24ML1-	S16SCM20				
	SM SC 20MI- SM SC 20ML1-					
	SM SC 16MI- SM SC 16ML1-					
	SM SC 14MI- SM SC 14ML1-	S16SCML1				
	SM SC 16MI1- SM SC 16ML11-	S16SCML11	51060210924			

(1) contact reeled (2) loose contact

Note: endurance of SHANDLES tool = 5 000 cycles.

Contact size	Part number	Tool with separate locator			Extraction tools
		Hand tool	Positioner + locator setting		
#12 2.4mm	8291 1457N / 8291 1456-	MB17	VGE10077A	1-2	5106020924
	8291 1459N / 8291 1458-			2	
	8291 1461N / 8291 1460-			2	
	8291 1463N / 8291 1462-			3	
	8291 1465N / 8291 1464-			3	
	8291 1467N / 8291 1466-			4	
#8 3.6mm	8291 3601A / 8291 3600A	MB17	VGE10078A	3	51060210936
	8291 3603A / 8291 3602A			3	
	8291 3605A / 8291 3604A			4	
	8291 3607A / 8291 3606A			5	
	8291 3609A / 8291 3608A			6/7	

#### Specific contacts

Contact size	Part number	Hand tools (SHANDLES) head	Tool with separate locator			Extraction tools		
			Hand tool	Positioner + locator setting				
#16 Ø 1.6mm Longer RM contact	RM28MI GE1-	S16RCM20						
	RM24MB GE1-							
	RM20MI 3GE1-							
	RM16M23 GE1-	S16RCMI 6				MB60	MB6186	6/8
	RM14M50 GE1-	S16RCMI 450				MB17	UH25	3
	RM14MB0 GE1-	S16RCMI 4						
#16 Ø 1.6mm Shorter RC contact	RC28MI GE7-	S16RCM20	MB60	MB6164G	RX2025GE1			
	RC24MB GE7-							
	RC20MI 3GE7- RC20MI 2GE7-							
	RC16M23 GE7-	S16RCMI 6				MB17	UH25	3
	RC14M50 GE7-	S16RCMI 450						
	RC14MB0 GE7-	S16RCMI 4						

#### Coaxial contacts

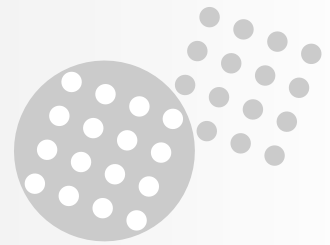
See cabling notice chapter Appendices, pages 178 to 182.



### Assembly instruction

Wire stripping crimp version			
	Part number		Stripping length L (mm)
	Male	Female	
<b>Machined contact</b>	#16		
	RM28MI- / RM24MØ- RM20MI 3- / RM20MI 2-	RC28MI- / RC24MØ- RC20MI 3- / RC20MI 2-	4.8
	RMI 6M23- / RMI 4M50- RMI 4M80-	RC16M23- / RC14M50- RC14M80-	7.1
	#20		
	RM24VØ- / RM20VØ- RMI 8VØ-	RC24VØ- / RC20VØ- RC18VØ-	4.8
<b>Stamped &amp; formed</b>	#16		
<b>Without insulation support</b>			
	SM24MI- / SM24ML1- SM20MI- / SM20ML1	SC24MI- / SC24ML1- SC20MI- / SC20ML1-	4
	SMI 6MI 1- / SMI 6ML11-	SC16MI 1- / SC16ML11-	4.65
<b>With insulation support</b>			
	SMI 6MI- / SMI 6ML1-	SC16MI- / SC16ML1-	6.35
	SMI 4MI- / SMI 4ML1-	SC16MI 1- / SC16ML11-	6.35
<b>Screw contacts</b>	Power contacts #12		
	8291 1457- / 8291 1459- / 8291 1461- / 8291 1463- / 8291 1465- / 8291 1467-	8291 1456- / 8291 1458- / 8291 1460- / 8291 1462- / 8291 1464- / 8291 1466 -	7 to 8
	Power contacts #8		
	8291 3601- / 8291 3603- / 8291 3605- 8291 3607- / 8291 3609-	8291 3600- / 8291 3602- / 8291 3604- / 8291 3606- / 8291 3608-	6.5 to 7.5
	Contact delivered with connector		5.8

Wire stripping solder version			
	Part number		Stripping length L (mm)
	Male	Female	
<b>Machined contact</b>	#16 & #20		5



### Crimping

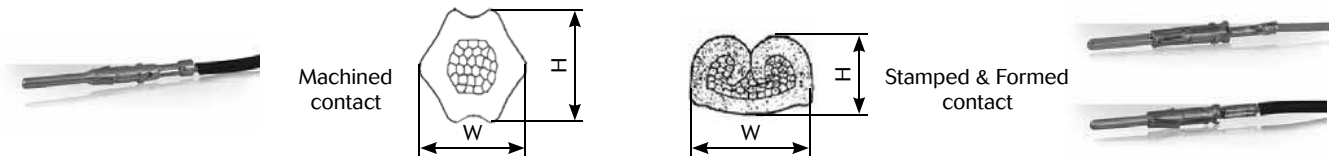
One of the key factors which affects the performance of a connector, is the way contacts are terminated. Crimped connections are nowadays seen as the best solution to ensure quality throughout the lifetime of the product. Here are some reasons why we recommend this method of termination for UTS connectors:

#### 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

- No health risk from heavy metal and flux steam
- Preservation of conductor flexibility behind the crimped connection
- No burnt, 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 full forces are indicated in the tables below:



Active contact part	Contact type	Die location on heads	Wire section range	Section (mm <sup>2</sup> )	Tensile straight test (mini)	Height (Mm) H (±0.075)	Width (Mm) W (±0.075)	Head's P/N	
Machined contacts size 20	<b>RM RC 24V8*</b>	26/24	AWG 26	0.12 min	15 N	0.95	1.27	<b>S20RCM</b>	
			AWG 24	0.25 max	32 N				
	<b>RM RC 20V8*</b>	22/20	AWG 22	0.32 min	40 N	1.26	1.78		
AWG 20			0.50 max	60 N					
<b>RM RC 18V8*</b>	20/18	AWG 20	0.50 max	60 N	1.35	1.86			
		AWG 18	0.82 max	90 N					
S & F contacts size 20	<b>SM SC 24VL3TK6*</b>	26/24	AWG 26	0.12 min	15 N	0.80	1.49	<b>S20SCM20</b>	
			AWG 24	0.25 max	32 N				
	<b>SM SC 20VL3TK6*</b>	22/20	AWG 22	0.32 min	40 N	1.01	1.53		
AWG 20			0.50 max	60 N					
Machined contacts size 16	<b>RM RC 28MI K*</b>	30/28	AWG 30	0.05 min	11 N	1.14	1.41		<b>S16RCM20</b>
			AWG 28	0.08 max	11 N				
	<b>RM RC 24M9K*</b>	26/24	AWG 26	0.12 min	15 N	1.15	1.41		
			AWG 24	0.25 max	32 N				
	<b>RM RC 20MI 3K*</b>	22/20	AWG 22	0.32 min	40 N	1.26	1.76		
			AWG 20	0.50 max	60 N				
			AWG 22	0.32 min	40 N				
	<b>RM RC 20MI 2K*</b>	20	AWG 20	0.50 max	60 N	1.66	2.18		
			AWG 20	0.50 max	60 N				
	<b>RM RC 16M23K*</b>	18	AWG 18	0.82 max	90 N	1.80	2.28	<b>S16RCM 6</b>	
AWG 16			1.50 max	150 N					
<b>RM RC 14M80K*</b>	16	AWG 16	1.50 min	150 N	2.10	2.68	<b>S16RCM 4</b>		
		AWG 14	2.50 min	230 N					
<b>RM RC 14M50K*</b>	16	AWG 16	1.50 min	150 N	2.09	2.59	<b>S16RCM 450</b>		
		AWG 14	2.50 max	230 N					
S & F contacts size 16	<b>SM SC 24ML1TK6*</b>	26/24	AWG 26	0.12 min	15 N	0.84	1.50	<b>S16SCM20</b>	
			AWG 24	0.25 max	32 N				
	<b>SM SC 20ML1TK6*</b>	22/20	AWG 22	0.32 min	40 N	1.02	1.54		
			AWG 20	0.50 max	60 N				
	<b>SM SC 16ML11TK6*</b>	18	AWG 18	0.82 min	90 N	1.32	2.09	<b>S16SCML11</b>	
			AWG 16	1.50 max	150 N				
	<b>SM SC 16ML1TK6*</b>	18	AWG 18	0.82 min	90 N	1.49	2.02	<b>S16SCML1</b>	
AWG 16			1.50 max	150 N					
<b>SM SC 14ML1TK6*</b>	14	AWG 14	2.50 max	230 N	1.79	2.58			

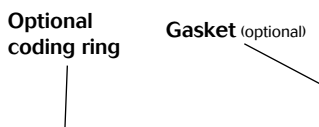
(1): example of plating, for other plating see page 143



### UTS 0 assembly (mounting suggestion)

- Strip wires, crimp or solder contacts
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts only)
- Place receptacle in the panel cut-out, with optional gasket
- Secure receptacle with screws (not supplied)

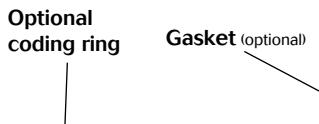
#### Front mounting : Crimp version



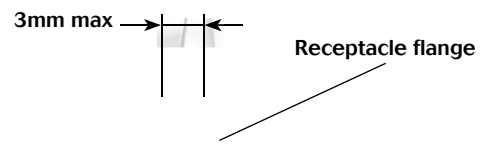
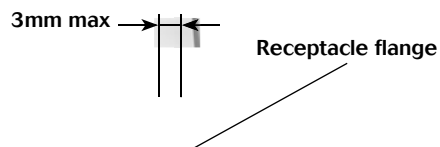
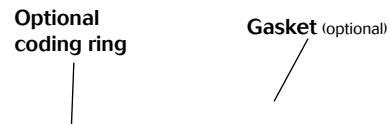
#### Rear mounting : Crimp version



#### Front mounting : Solder version



#### Rear mounting : Solder version



— Panel

— Panel thickness:  
2.5mm max

# UTS Series

## Technical information



### UTS 7 assembly (mounting suggestion)

- Strip wires, crimp or solder contacts
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts only)
- Seat o-ring, place receptacle in the panel cut-out
- Tighten jam nut

Shell size	Jam nut torque (Nm)	Tool tightening	Ø Wire	
			Standard version	Discrete wire sealing
8	1.5	19.05	3.2 mm max.	from 1.7 mm to 3.0 mm
10	3	22.25		
12	4	27.15		
14	5	30.19		
18	5	36.5		

Finally

#### Crimp version

Optional coding ring

O-ring

Jam nut

Panel thickness: 3.2mm max

#### Solder version

Optional coding ring

O-ring

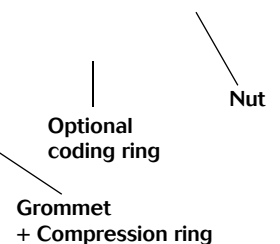
Jam nut

Panel thickness: 3.2mm max

### UTS 6 GN / UTS 7 GN assembly

- Slide accessories on the cable (make sure to keep compression ring on the grommet)
- Strip wires and crimp contacts
- Insert first contact into the grommet (first contact in cavity A, use male contact to pierce the grommet, no tool is required), then insert the contact in the connector cavity A (insert manually or use tool RTM205)
- Place the grommet and compression ring on the insulator
- Insert the other contacts
- Tighten nut (recommended torque: see note)

Shell size	Nut tightening torque (Nm)	Ø Wire
10	1	from 1.7 mm to 3.0 mm
12	1.5	
14	1.5	



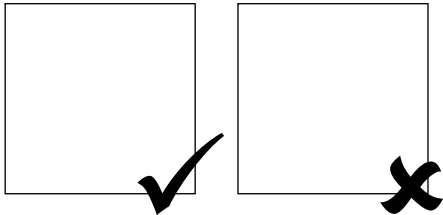




### Assembly instruction

#### UTS 1 JC / UTS 6 JC assembly: Crimp version

- Slide accessories on the cable



Make sure the seal is positioned as shown.

- Strip external cable jacket
- Strip wires and crimp contacts
- Insert contacts into connector cavities (insert manually or use tool RTM205)
- Tight adapter with plug, choose right seal (waste the other seal), tight nut with adapter (recommended torque values to be applied according to the table - right)
- Caution: only one of both delivered gasket should be used !

Adapter + mounted gasket

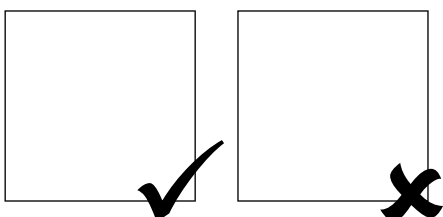
Nut

Coding ring

Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal	Ø Cable range Reducing seal	Ø Wire
	Male	Female					
10	21	29	1.5	2	2.5/8.0	1.5/5.0	3.2 mm max.
12	25	33	2	2.5	5.0/12.0	3.0/9.0	
14	29	36	3	2.5	7.0/14.0	5.0/12.0	
18	37	45	4	3.5	9.0/18.0	7.0/16.0	

#### UTS 6 JC assembly: Solder version

- Slide accessories on the cable



Make sure the seal is positioned as shown.

- Strip external cable jacket
- Strip wires and solder contacts
- Tight adapter with plug, choose right seal (waste the other seal), tight nut with adapter (recommended torque values to be applied according to the table - right)
- Caution: only one of both delivered gasket should be used !

Adapter + mounted gasket

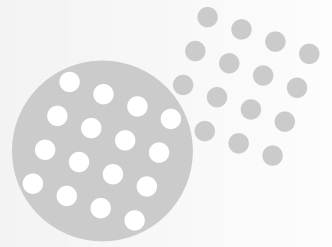
Nut

Coding ring

Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal	Ø Cable range Reducing seal	Ø Wire
	Male						
8	17		1	0.75	2.5/6.5	1.5/5.0	3.2 mm max.
10	21		1.5	2	2.5/8.0	1.5/5.0	
12	25		2	2.5	5.0/12.0	3.0/9.0	
14	29		3	2.5	7.0/14.0	5.0/12.0	

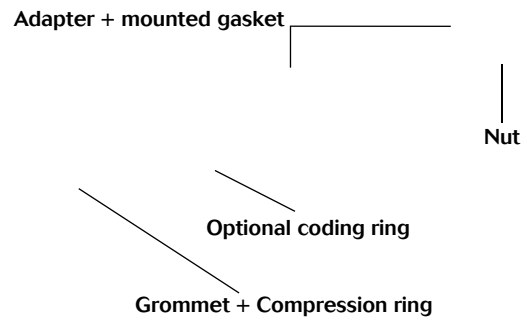
# UTS Series

## Technical information



### UTS 1 GJC / UTS 6 GJC assembly

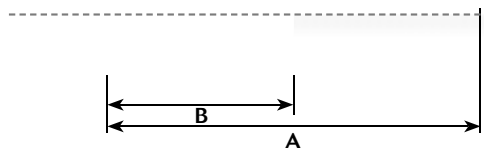
- Slide accessories on the cable (make sure to keep compression ring on the grommet)
- Strip external cable jacket
- Strip wires and crimp contacts
- Insert first contact into the grommet (first contact in cavity A, the contact pierces the grommet, no tool is required), then insert the contact in the connector cavity A (insert manually or use tool RTM205)
- Place the grommet and compression ring on the insulator
- Insert the other contacts
- Tight adapter with plug, choose right seal (waste the other seal), tight nut with adapter (recommended torque values to be applied according to the table - right).



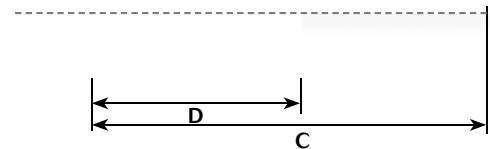
Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal	Ø Cable range Reducing seal	Ø Wire
	Male	Female					
10	21	29	1.5	2	2.5/8.0	1.5/5.0	from 1.7 mm to 3.0 mm
12	25	33	2	2.5	5.0/12.0	3.0/9.0	
14	29	36	3	2.5	7.0/14.0	5.0/12.0	

### Mated connector length

#### UTS0 + UTS6



#### UTS7 + UTS6



Shell size	UTS0 + UTS6 EN JC & CJC	UTS0 + UTS6 EN GN	UTS7 + UTS6 EN JC & CJC	UTS7 + UTS6 EN GN
	A max	B max	C max	D max
8	61.1	-	66.6	-
10	73.2	39.6	77.3	43.7
12	77.6	39.4	81.7	43.5
14	83.5	40	87.6	44.1
18	93.1	-	97.2	-

Note: all dimensions are in mm



### Dimensions overmoulded harnesses

A diagram showing a horizontal dimension line labeled 'L' spanning the full width of a shell. A second dimension line labeled 'L1' is positioned below it, starting from the left edge and ending at a vertical line that is slightly offset from the right edge of the shell.

Shell size	UTS0				UTS7			
	L max	L1 max	L2 max	L3 max	L max	L1 max	L2 max	L3 max
<b>8</b>	42.8	36.8	80.7	57.2	46.8	36.8	85.8	57.2
<b>10</b>	55.8	50.3	98.6	92	60.5	50.3	102.7	92
<b>12</b>	57.1	51.4	99.3	93.7	61.4	51.4	106.4	93.7
<b>14</b>	62.5	56.3	100.3	94.6	67.6	56.3	104.8	94.6

A diagram showing a horizontal dimension line labeled 'L2' spanning the full width of a shell. A second dimension line labeled 'L3' is positioned below it, starting from a vertical line that is slightly offset from the left edge and ending at the right edge of the shell.

### Extraction tools

Contact size	Extractor	
#20	<b>RX20D44</b>	<b>51060210936</b>
#16	<b>RX2025GE1</b>	<b>51060210924</b>
#12	<b>51060210924</b>	
#8	<b>51060210936</b>	

**RX2025GE1**

**RX20D44**

#### Extraction tools instruction for size 16

**Special case with the tool RX2025GE1:**

A - When setting up in the cell, keep firmly the tool by the hexagonal metallic part and insert tool in cavity.

B - Push the tool by the handle to extract the contact.

**Extraction:**

Place the tool into the cavity from front face of the connector, push on the handle, then remove the contact..



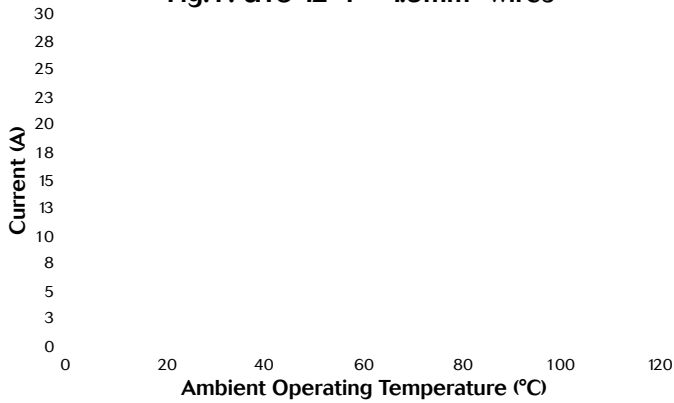
### Rated current & working voltage

#### Current carrying capacity

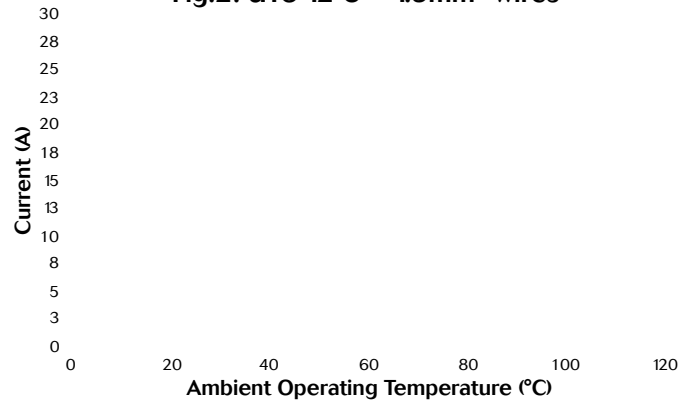
The current carrying capacity of a connector is limited by the thermal properties of materials used in its construction. The amount of current that can be handled depends on the size of cable used, the ambient temperature and the heat that is generated inside the connector. Part 3 of the IEC 60512 standard determines through a derating curve, the maximum current permissible, which varies from one layout to another (Fig.1 & Fig.2). Wire size plays an important role as well, since they help to dissipate heat and avoid overheating (Fig.1 & Fig.3).

Please note that the curve should be adjusted when dealing with potential hot spots, which can occur as a result of unequal loading of current across a number of contacts. As a general rule, it is best to avoid locating power handling contacts in the middle of the connector; try to locate them towards the edge where heat can be dissipated more effectively. Eventually you should find a level which represents the permissible operating range:

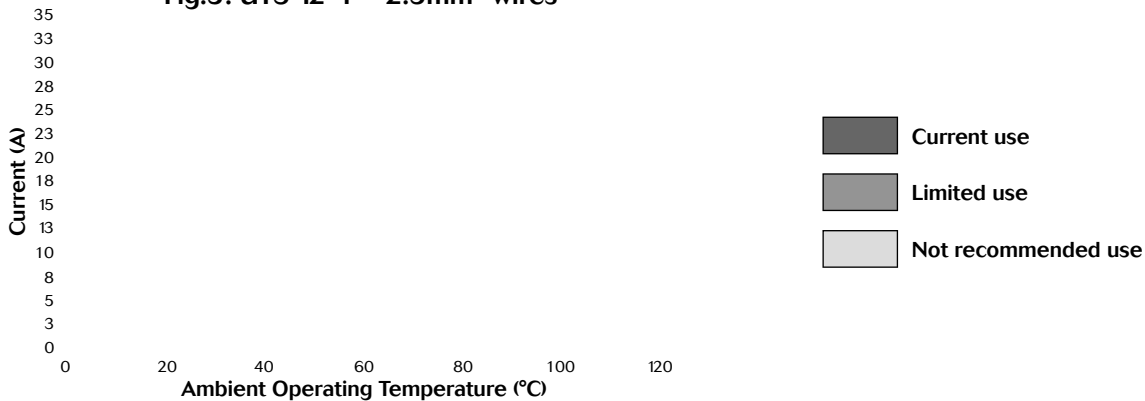
**Fig.1: UTS 12-4 – 1.5mm<sup>2</sup> wires**



**Fig.2: UTS 12-8 – 1.5mm<sup>2</sup> wires**



**Fig.3: UTS 12-4 – 2.5mm<sup>2</sup> wires**



The **rated current** is defined as uninterrupted continuous current that a connector can take when all contacts are energized simultaneously without exceeding the maximum limit of temperature. The earth contact is never loaded.



### UV resistance

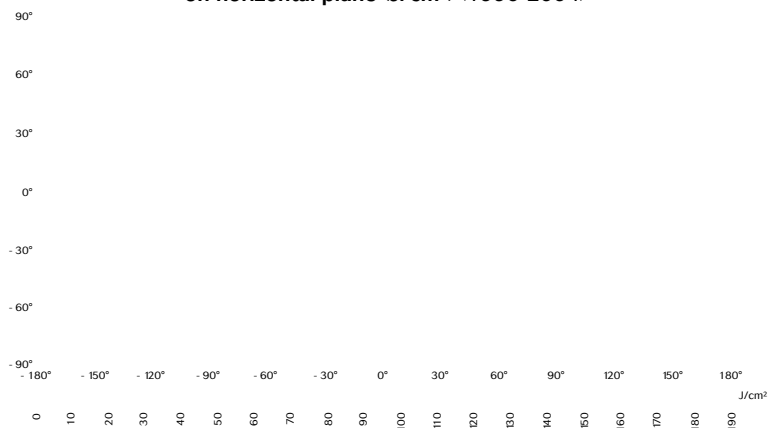
Solar radiation affects all materials, but plastics can be susceptible to extreme degradation over time. The choice of materials for the UTS series was therefore a critical consideration.

All over the world we are not exposed to the same amount of energy given by the sun. The chart shown here clearly illustrates this.

So we performed test according to the ISO 4892-2 and simulated 5 years exposure to outdoor environments (temperature, humidity, etc...)

After this period there was no significant colour variation, no crazing, no cracking and no major variation of mechanical properties.

Yearly mean of daily irradiation in UV (280-400 nm) on horizontal plane (J/cm<sup>2</sup>) (1990-2004)





### Underwriter Laboratories

There are two main standards for industrial connectors: **UL94 & UL1977**

## UL94

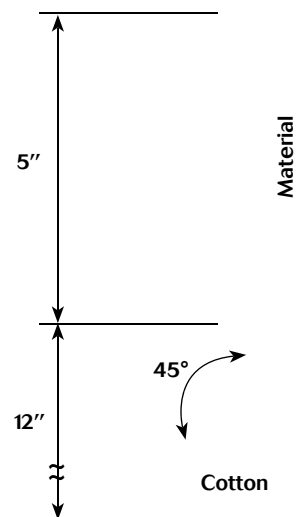
This standard is dedicated to plastics flammability. It characterises how the material burns in various orientation and thicknesses.

The UTS series has been rated at **V-0 & HB**.

Procedure: A specimen is supported in a vertical or horizontal position and a flame is applied to the bottom of the specimen. The flame is applied for ten seconds and then removed until flaming stops, at which time the flame is reapplied for another ten seconds and then removed. Two sets of five specimens are tested. The two sets are conditioned under different conditions.

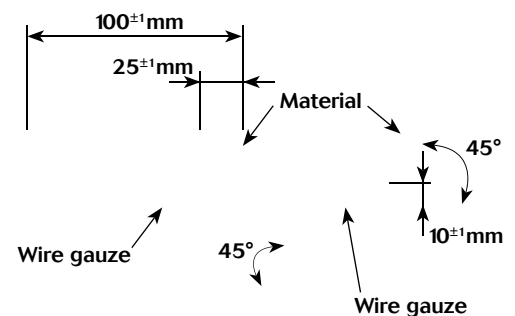
#### V-0 Vertical burning:

- Specimens must not burn with flaming combustion for more than 10 seconds after either test flame application.
- Total flaming combustion time must not exceed 50 seconds for each set of 5 specimens.
- Specimens must not burn with flaming or glowing combustion up to the specimen holding clamp.
- Specimens must not drip flaming particles that ignite the cotton.
- No specimen can have glowing combustion remain for longer than 30 seconds after removal of the test flame.



#### HB Horizontal burning:

- A material classed HB shall not have a burning rate exceeding 40 mm per minute over a 75 mm span for specimens having a thickness of 3.0 to 13 mm.
- A material classed HB shall not have a burning rate exceeding 75 mm per minute over a 75 mm span for specimens having a thickness less than 3.0 mm.
- A material classed HB shall cease to burn before the 100 mm reference mark.





### Underwriter Laboratories

## UL 1977

There are several standards which deal with plug and receptacle. Each of them is only for a small area of applications. It could be telecommunication, Etc. The UL 1977 covers single and multipole connectors intended for factory assembly.

Requirements apply to devices in taking into account intensity and voltage. There are categories as follows:

	0	30 V (42 V peak)	600 V
0	Type 0	Type 1A	
8.3 A			
31 A	Type 1B	Type 2	
200 A		Type 3	
1000 A	Type 4		

According to above table, the level of performance that has to be reached could be different. Most of them are explained in the following page.

## Insulating materials:

Material uses for electrical insulation, as a minimum, have to comply with the characteristics shown below:

### • Minimum ratings for polymeric materials

Type	Flame rating	Relative thermal index (RTI) Electrical/mechanical w/o impact **/**
0	-	50/50
1A	HB	50/50
1B	HB	50/50
2	HB	50/50
3	HB	50/50
4	HB	50/50

\* The RTI of the material shall not be lower than the temperature measured during the Temperature Test.

\*\* For a thickness less than that for which a value has been established, the RTI of the minimum thickness with an established value shall be used.

## Assembly:

Connector has to be keyed to prevent any mismatching that can damage the machine or hurt the user. In the same way, plugs and sockets have to be equipped to protect persons against contact with live parts.

Finally the identified grounding contact shall be located so that the corresponding electrical continuity has to be completed before any other contact.



### Underwriter Laboratories

## UL1977

### Spacing:

For a 250V max connector, distance through air or over material shall be 1.2mm whereas from 250V to 600V connector the spacing is 3.2 minimum. These distances have to be taken between uninsulated live parts as shown in the matrix below:

• **Applicability of spacing requirements**

Type	Uninsulated live part - uninsulated live part of opposite polarity	Uninsulated live part - uninsulated grounded metal part	Uninsulated live part - exposed dead metal part
0	No	No	No
1A	Yes	Yes	Yes
1B	Yes	Yes	No
2	Yes	Yes	Yes
3	Yes	Yes	Yes
4	Yes	Yes	Yes

An alternative way to determine voltage rating is with the Dielectric-Withstand test. If during one minute there is no arc-over or breakdown the rated voltage is given as given below:

- a) 500 volts for a type 1B device
- b) 1000 volts plus twice rated voltage for types 1A, 2, 3 and 4 devices.

### Marking:

A device shall be legibly marked with the manufacturer's trade name, trade mark, or other descriptive marking by which the organisation responsible for the product may be identified. (Exception: If the device is too small, or where the legibility would be difficult to attain, the manufacturer's name, trademark, or other descriptive marking may appear on the smallest unit container or carton)

The following shall be marked on the device or on the smallest unit container or carton or on a stuffer sheet in the smallest unit container or carton:

- a) The catalogue number or an equivalent designation
- b) The electrical rating in both volts and amperes, if assigned
- c) Whether ac or dc, if restricted
- d) Flammability class, if identified

Example - Marking for the arrangement 10-3: **10A 500V UL94 V-0**





### IEC 61984

The norm is dedicated to connectors with rated voltage above 50V and up to 1000V and rated currents up to 125A per contact. But depending of your application connectors should be compliant with another standard. This has to be double checked with the customer.

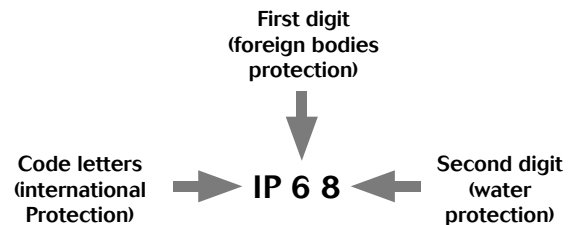
There are lot of constructional requirements and performances specified in that standard. Most of them are illustrated in greater details hereafter.

#### Provisions for earthing:

The UTS connector is intended to be used on Class II systems. Even if the purpose of our connector is not to interrupt current, we often see a need to add a protective earth contact. Then this one shall be a "First mate, last break" style. Critically, among all of the normal assumptions we make in designing a connector, this contact has to be considered as a live part and must be protected against electric shock by double or reinforced insulation.

#### IP Code:

IP is a coding system defined by the IEC 60529 to indicate the degrees of protection provided by an enclosure. The aim of this is to give information regarding the accessibility of live parts against ingress of water and other foreign bodies.



1 <sup>st</sup> digit	Degree of protection	2 <sup>nd</sup> digit	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 50 mm.	1	Drip-proof. Protection against vertical water drips.
2	Protection against contacts with the fingers. Protection against solid foreign bodies with a diameter bigger than 12 mm.	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 2.5 mm. Protection against small solid bodies with a diameter bigger than 2.5 mm.	3	Spray-proof. Protection against diagonal water drips up to a 60° angle.
4	As 3 however diameter is bigger than 1 mm.	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 / 69K...  
Even in dynamic situations.

In addition to the IEC 60529 we conjointly use the DIN 40050 part 9 which are dedicated to road vehicles. The main differences are:

- **First digit:** 5 replaced by 5K, 6 by 6K. In the DIN the tested equipment is not depressurized as it is in the IEC.
- **Second digit:** 5K and 6K has been added and are equivalent respectively to 5 and 6 but with higher pressure. 9K which represents the High pressure cleaning.

9K	High pressure hose-proof. Protection against high pressure water (out of a nozzle) from all directions.
----	--

IEC 61984 ed.2.0 "Copyright © 2008 IEC Geneva, Switzerland.www.iec.ch"  
IEC 60664-1 ed.2.0 "Copyright © 2007 IEC Geneva, Switzerland.www.iec.ch"



### IEC 61984

#### Overvoltage

UTS connectors are qualified to be used on systems rated at Overvoltage category III

Per the IEC 60664-1 (formerly VDE 0110) each category is linked to the end application and where the device will be implemented:

- **Category IV** (primary overcurrent protection equipment):  
Origin of the installation
- **Category III** (Any fixed installation with a permanent connection)  
Fixed installation and equipment and for cases where the reliability and the availability is subject to special requirements
- **Category II** (Domestic appliances):  
Energy consuming equipment to be supplied from the fixed installation
- **Category I** (Protected electronic circuit):  
For connection to circuit in which measures are taken to limit transient overvoltage.

#### Pollution degree

Per the IEC 60664-1 (formerly VDE 0110) the environment affects the performance of the insulation. Particles can build a bridge between two metal parts. As a rule dust mixed with water can be conductive and more generally speaking metal dust is conductive. Finally, the standard defines 4 levels of pollution:

- **Degree 1** (Air conditioned dry room):  
No pollution or only dry, non conductive pollution occurs. The pollution has no influence.
- **Degree 2** (Personal computer in a residential area):  
Only non conductive pollution occurs except that occasionally a temporary conductivity caused by condensation is to be expected.
- **Degree 3** (Machine tools):  
Conductive pollution occurs or dry non-conductive pollution occurs which becomes conductive due to condensation which is to be expected.
- **Degree 4** (Equipments on roof, locomotives):  
Continuous conductivity occurs due to conductive dust, rain or other wet conditions.

Finally, the harsher the environment is, the longer clearance and creepage distances should be. Nonetheless, according the IEC 61984, enclosure rated at IP54 or higher can be dimensioned for a lower pollution degree. This applies to mated connectors disengaged for test and maintenance.

#### Marking

The marking should give enough details to the user to know what the main characteristics are and without going deep in technical documentation. Below examples identify the suitability of the connector:

- **Example 1:**  
Marking of a connector with rated current 16A, rated voltage 400V, rated impulse voltage 6kV and pollution degree 3, 2 and 1 for use in any system, preferably unearthed or delta-earthed systems:

16A 400V 6kV 3

- **Example 2:**  
Marking of a connector with rated current 16A, rated insulation voltages line-to-earth 250V, line-to-line 400V, rated impulse voltage 4kV and pollution degree 3, 2 and 1 for use in earthed systems:

16A 250V 400V 4kV 3



### What is NEMA rating ?

- NEMA ratings vs IP ratings

Whereas IP ratings only consider protection against ingress of foreign bodies - first digit - and ingress of water (second digit), NEMA ratings consider these but also verify protection from external ice, corrosive materials, oil immersion, etc.

The correlation between NEMA & IP being limited only to dust and water, we can state that a NEMA type is *equivalent to* an IP rating but it is not possible to say the contrary.

Below a list of some NEMA standards:

Enclosure rating	IP20	IP22	IP55	IP64	IP65	IP66	IP67
Type 1	•						
Type 3				•			
Type 3R		•					
Type 3S				•			
Type 4						•	
Type 4X						•	
Type 6							•
Type 12			•				
Type 13					•		

• indicates compliance



Type 6 rating can be either Type 6 or Type 6P - please see below:

6	IP67	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, falling dirt, hose-directed water, the entry of water during occasional temporary submersion at a limited depth and damage from external ice formation.
6P	IP67	Enclosures constructed for either indoor or outdoor use to provide a degree of protection to personnel against incidental contact with the enclosed equipment, falling dirt, hose-directed water, the entry of water during prolonged submersion at a limited depth and damage from external ice formation.



### Ethernet for the layman

In order to explain basic Ethernet theory, we can use a functional comparison to a busy city with highways, buildings, and cars. To illustrate this, the table below provides correlation between the different components/pieces/links that encompass Ethernet network connectivity, and the larger scale infrastructure of a metropolitan city.

- **City:** The network itself
- **Buildings:** End equipment, PC, server, etc.
- **Roads:** Ethernet cabling
- **Cars:** Data packets, datagrams, bits, bytes, etc.
- **Tolls:** Firewalls
- **Bridges:** Connectors
- **Traffic laws:** Protocol/communication specifications

#### Ethernet Basics

Ethernet is a widely used communications protocol that is used to transmit data packets (datagrams) between network devices. Imagine a highway in a large metropolitan area six lanes wide at rush hour. The vehicles on the highway need rules to follow so that they get to their destination without crashing into each other. In an Ethernet network link, there could be 100 million bits of information transmitted in one second. In the Ethernet standard, there exist rules to govern packet structure, transmission requirements, error correction, communication with end equipment, etc.

#### Examining the differences between 100Mhz, 100 Base TX, Cat5e; what does it all mean?

When discussing connectors and Ethernet, there are a few key details to be aware of:

- 100Mhz is a measurement of Frequency for the signal
  - Comparable to the Speed Limit of a highway
- 100BaseTX (or Fast Ethernet) is an Ethernet link standard and identifies available link bandwidth The bandwidth is measured in units of Mbits/S (megabits per second)
  - Comparable to the number of cars that pass a point in one second
- Cat5e is an EIA/TIA standard and physical characteristics for cables and connectors
  - Comparable to performance specifications of the car and highway

In connectors and cables, Fast Ethernet uses 2 pairs, one for transmit, one for receive. This, way data traffic can flow in both directions simultaneously.



### Ethernet for the layman

#### Souriau offering:

##### Standard solutions.

UTS Hi seal size 8, 4 contacts

- 1 (Pair 1) A
- 2 (Pair 1) C
- 3 (Pair 2) B
- 4 (Pair 2) D

**8E4/8D4**  
4 Ø 1 (#20)

UTS size 10, 6 contacts

- 1 (Pair 1) A
- 2 (Pair 1) B
- 3 (Pair 2) E
- 4 (Pair 2) D

**106/10E6/10D6**  
6 Ø 1 (#20)

Shielding continuity done in cavity C&F.  
Note: Shielding can be replaced by  
DC power.

UTS size 12, 10 contacts

- 1 (Pair 1) C
- 2 (Pair 1) B
- 3 (Pair 2) G
- 4 (Pair 2) H

**12 10/12E 10/12D 10**  
10 Ø 1 (#20)

#### What about using coax contacts ?

Ethernet twisted pairs carry a symmetrical (balanced) signal. Once terminated into a coax contact, the inner core will be protected by a shield - but not the outer contact. Because of EMI issues, the signal will no longer be balanced. Conclusion - it does not work and is not recommended.

#### What about using Quadrax contacts ?

The Quadrax contact is used in railway applications because of the use of quad cable. In this specific market, the standard Ethernet twisted pairs wires cannot be offered, they are too thin and often solid (not stranded).

In the rest of industry, UTP (Unshielded Twisted Pairs) cables are widely used. The Quadrax contact is not designed to terminate them. And thus, are not advised for industrial applications.

#### Conclusion

To carry 100Mb/s data signal, 100BaseTX or Fast Ethernet recommends the use of Cat5e connectors as well as Cat5e cable with the support of a 100MHz signal. Nevertheless, a 100Mb/s signal can be transmitted in certain conditions (short distance, only one connector, lower frequency but a different code) thru many other connection materials - not necessarily Cat5e rated.

# UTS Series

Technical information





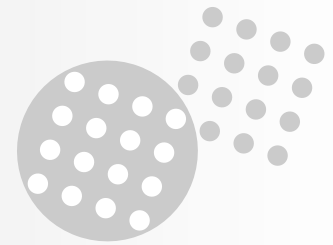
UTS Series

# Appendices

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### #16 coaxial contacts

#### Coaxial cable - Contact monocrimp and multipiece

Cable type	Impedance	Contact type	Ø over jacket		Ø over dielectric		Inner cond size Ext. Ø mm	Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	inch	mm		inch	mm		
RG161/U	75	Multi piece	0.09	2.29	0.057	1.45				RMDXK10D28	RCDXK1D28
RG179A/U	75		0.105	2.67	0.063	1.6	0.3	0.084	2.13 max		
RG179B/U	75		0.105	2.67	0.063	1.6	0.3	0.084	2.13 max		
RG187/U	75		0.11	2.79 max	0.06	1.52	0.3				
RG188/U	50		0.11	2.79 max	0.06	1.52	0.51	0.078	1.98 max		
RG174/U	50		0.11	2.92	0.06	1.52	0.48	0.088	2.24 max		
AMPHENOL 21-598	50		0.105	2.67	0.06	1.52	0.48				
RG196/U	50		0.08	2.03 max	0.034	0.086	0.3				
RG178A/U	50		0.075	1.91	0.034	0.86	0.3	0.054	1.37 max		
RG188A/U	50	Mono crimp	0.110	2.79	0.06	1.52	0.51	0.078	1.98 max	RMDX6036D28	RCDX6036D28
KX21TVT (europe) RG178 B/U	50		0.075	1.91	0.034	0.86	0.3	0.054	1.37 max	RMDX6034D28	RCDX6034D28
RG178 / BU	50		0.075	1.91	0.034	0.86	0.3	0.054	1.37 max	RMDX6050D28	RCDX6016D28
RG174/U	50		0.115	2.92	0.06	1.52	0.48	0.088	2.24 max	RMDX6032D28	RCDX6032D28
RG188A/U	50		0.11	2.79	0.06	1.52	0.51	0.078	1.98 max	RMDX6036D28	RCDX6036D28
RG316/U	50		0.107	2.72	0.6	1.52	0.51	0.078	2.05 max	RMDX6036D28	RCDX6036D28
raychem 5024A3111	50		0.12	3.05	0.083	2.11	0.64	0.097	2.46	RMDX6052D28	RCDX6052D28
raychem 5026e1614	50		0.083	2.11	0.05	1.27	0.48	0.067	1.7	RMDX6036D28	RCDX6036D28
surprenant pn 8134	-		Multi piece	0.1	2.54	0.058	1.47	0.3			RMDXK10D28
PRD PN 247AS-C123-001	-	Mono crimp	0.103	2.62	0.06	1.52	0.51	0.078	1.98	RMDX6018D28	RCDX6018D28
PRD PN 247AS-C1251	-		0.092	2.34	0.05	1.27	0.64	0.067	1.7	RMDX6018D28	RCDX6018D28
JUDD C15013010902	-		0.087	2.13	0.05	1.27	0.48	0.066	1.67	RMDX6036D28	RCDX6036D28
CDC PIN22939200	-		0.09	2.29	0.048	1.22	0.3	0.064	1.63	RMDX6046D28	RCDX6016D28
CDC PIN22939200	-		0.09	2.29	0.048	1.22	0.3	0.064	1.63	RMDX6050D28	RCDX6016D28
CDC PIN245670000	-		0.104	2.64	0.067	1.7	0.3	0.083	2.11	RMDX6050D28	RCDX6016D28
ampex	-		0.114	2.9	0.075	1.91	0.38	0.09	1.29	RMDX6032D28	RCDX6032D28
TI PN 920580	-		0.7	1.78	0.038	0.96	0.48	0.054	1.37	RMDX6024D28	RCDX6024D28
Honeywell PN 58000062	-		0.12	3.05	0.077	1.96	0.41 solid	0.096	2.44	RMDX6026D28	RCDX6026D28
-	-		0.104	2.64	0.067	1.7	0.3		2.11	RMDX6050D28	-
-	-		0.09	2.29	0.048	1.22	0.3		1.63	RMDX6050D28	-
-	-		0.114	2.9	0.075	1.91	0.38		1.29	RMDX6032D28	RCDX6032D28
-	-		0.07	1.78	0.038	0.96	0.48		1.37	RMDX6024D28	RCDX6024D28
-	-		0.12	3.05	0.077	1.96	0.41		2.44	RMDX6026D28	RCDX6026D28



### Twisted cable - Contact monocrimp and multipiece

Cable type	Contact type	Inner AWG cond	Ø over jacket (single wire)		Inner cond size		Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	Stranded definition	Ext. Ø mm	inch	mm		
2#24 stranded mil w 16878 type B	Multi piece	24	0.049	1.24 max	7/.008		-	-	RMDXK10D28	RCDXK1D28
2 #24 solid mil-w-76 type LW		24	0.047	1.12 max	1/.0201		-	-	RMDXK10D28	RCDXK1D28
2 #26 stranded mil w 76 type LW or mil w16878 type b&e		26	0.043	1.09 max	7/.0063	0.16	-	-	RMDXK10D28	RCDXK1D28
2 #28 solid mil-w-81822/3		28	0.028	0.71 max			-	-	RMDXK10D28	RCDXK1D28
TWISTED PAIR 1/.201 SOLID MIL w 76 TYPE lw or MIL W 16878		26	0.044	1.12 max	1/.0201	0.511	-	-	RMDXK10D28	RCDXK1D28
twisted pair solid mil w 81822/3		28	0.028	0.71 max	1/.0126	0.32	-	-	RMDXK10D28	RCDXK1D28
#28 7/.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	-	0.046	1.17	7/.0036	-	-	-	RMDX6031D28 + YCRX090	RCDX6031D28 + YCRX090
20218201		-	0.028	0.71	-	-	-	-	RMDX6031D28 + YCRX090	RCDX6031D28 + YCRX090
#30 solid		-	0.025	0.64	-	-	-	-	RMDX6015D28 + YCRX090	RCDX6015D28 + YCRX090
#26 7/.0063		26	0.028	0.71	7/.063	0.16	-	-	RMDX6031D28 + YCRX090	RCDX6031D28 + YCRX090
#26 19/.004		26	0.049	1.24	19/.004	-	-	-	RMDX6019D28 + YCRX090	RCDX6019D28 + YCRX090
#24 7/.008		24	0.049	1.24	7/.008	-	-	-	RMDX6019D28 + YCRX090	RCDX6019D28 + YCRX090
#24 19/.005		24	0.057	1.45	19/.005	-	-	-	RMDX6019D28 + YCRX090	RCDX6019D28 + YCRX090
-		26	-	1.25	-	-	-	19x0.1	RMDX6019D28 + YCRX090	RCDX6019D28 + YCRX090
-		24	-	1.25	-	-	-	7x0.2	RMDX6019D28 + YCRX090	RCDX6019D28 + YCRX090
-		24	-	1.45	-	-	-	19x0.13	RMDX6019D28 + YCRX090	RCDX6019D28 + YCRX090
-		26	-	0.7	-	-	-	7x0.16	RMDX6031D28 + YCRX090	RCDX6031D28 + YCRX090



### #16 coaxial contacts

#### Twisted pair cable multipiece contact cabling

Cable reference	Contact type	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp	
							A	B	C	g dim	t dim	g dim	t dim
2#24 stranded mil w 16878 type B	Multi piece	RMDXK10D28	RCDXK1D28	M10S1J	-	-	See assembly notice						
2 #24 solid mil-w-76 type LW													
2 #26 stranded mil w 76 type LW or mil w16878 type B & E													
2 #28 solid mil-w-81822/3													
twisted pair 1/.201 solid mil w 76 type LW or mil w 16878													
twisted pair solid mil w 81822/3													

#### Female contact

Strip lengths of cable	6.35 <sup>±0.41</sup>	Outer hyring	Y00074	Twisted pair adapter	YORK-090	Inner supporting sleeve	RCDXB-055-1	Inner pin	RMD26L-1	Outer female contact	RCDX60-2
	7.95 <sup>±0.41</sup>	Conductor "W"									
	13.49 <sup>±0.41</sup>	Conductor "X"									
		Step 1:		Step 2:				Step 3:			
			Twisted pair adapter								
		Outer hyring	Supporting sleeve								

#### Male contact

Outer male contact	RMDX60-2	Inner socket	RFD26L-1	Inner supporting sleeve	RMDXB-055-3	Twisted pair adapter	YORK-090	Outer hyring	Y00074	Conductor "y"	7.95 <sup>±0.41</sup>	Strip lengths of cable
										Conductor "Z"	7.95 <sup>±0.41</sup>	
											15.54 <sup>±0.41</sup>	
Step 1:		Step 2:		Step 3:								
			Twisted pair adapter					Locking louver typical			7.54	
											5.94 <sup>±0.41</sup>	
	Inner supporting sleeve	Outer hyring						Grounding louver typical			0.25 <sup>±0.05</sup>	7.54 <sup>±0.41</sup>
												7.95 <sup>±0.41</sup>
												15.54 <sup>±0.41</sup>

When using solid wire flatten conductor "X" and "Z" using N24FL-1 die as shown

Note : all dimensions are in mm



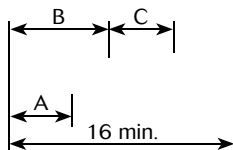
### Twisted pair cable monocrimp contact cabling

Cable reference	Contact type	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp	
							A	B	C	g dim	t dim	g dim	t dim
#28 77.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	RMD6031D28 + YCR090	RCD6031D28 + YCR090	MOSIJ	S80	SL105	4.7	6.1	4.32	1.30 to 1.12	1.4 to 1.22	2.97 to 2.84	3.07 to 2.9
20218204					S80	SL105	3.94	6.1	3.16	1.30 to 1.17	1.4 to 1.22	2.97 to 2.84	3.07 to 2.79
#30 solid					S83	SL105	4.7	6.1	4.06	1.22 to 1.12	1.35 to 1.22	2.97 to 2.84	3.12 to 2.95
#26 77.0063					S80	SL105	4.7	6.1	4.06	1.30 to 1.17	1.4 to 1.22	2.97 to 2.84	3.07 to 2.9
#26 197.004					MOSGB ASSY Y TOOL DIE SET STOP BUSHING MOSIJ TOOL	4.7	6.1	4.06	1.22 to 1.17	1.35 to 1.22	2.84 to 2.79	3.12 to 2.97	
#24 77.008						4.7	6.1	4.06	1.22 to 1.17	1.35 to 1.22	2.84 to 2.79	3.12 to 2.97	
#24 197.005						4.7	6.1	4.06	1.22 to 1.17	1.35 to 1.22	2.84 to 2.79	3.12 to 2.97	
AWG26 (19x0.1)					MOSGB crimping kit	4.7	6	4	/		/		
AWG24 (7x0.2)													
AWG24 (19x0.13)													
AWG26 (7x0.16)													
					S80	SL150							

- Select appropriate monocrimp coax twisted pair contact and cable combination.
- Select appropriate crimp tooling (hand tool, S-die set, stop bushing).
- Strip the twisted pair cable to the designated wire strip lengths.
- Insert the stripped cable into the contact. One cable is to be inserted into the inside diameter of hying, and pushed forward into the inner contact. The second cable is to be inserted between the outside diameter of hying and the inside diameter of the outer contact body.
- Crimp the contact.

See cable strip lengths

#### Cable strip length



RMD60  
Male coax contact

RCD60  
Female coax contact

G

G

Braid crimp (G) to be measured with die set fully closed

Inner conductor crimp (G) to be measured with die set fully closed

Note : all dimensions are in mm



### #16 coaxial contacts

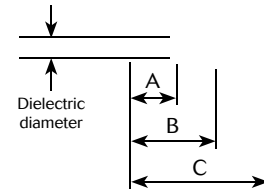
#### Multipiece male contact with coax cable

Cable reference	Contact	Hyring complementary components	Outer contact crimp tool		Inner contact crimp tool		Cable strip length			
			Crimp tool M10S1J		Crimp tool M10S1J		A	B	C	
			Die set	Stop bushing	Die set	Stop bushing				
RG161U	Male: RMDXK10D28	Y00074	S221	SL471	S23D2	SL46D2	4.37	7.95	15.88	
RG179							4.37	7.95	15.88	
RG187U							4.37	7.95	15.88	
RG188/ U		Y00074 + RMDXB0553			S26D2		4.37	7.95	15.88	
RG174/ U							4.37	7.95	15.88	
RG178A/ U							7.54	9.12	17.53	
RG196U		Y00074			S23D2		7.54	9.12	17.53	
AMPHENOL 21- 598							-	4.37	7.95	15.88
surprenant pn 8134							-	4.37	7.95	15.88

#### Multipiece kit details

RMDXK10D28 includes	Part	Description
	RMDX602D28	Outer contact
	RFD26L1D28	Inner contact
	Y00074	Outer hyring
	RMDXB0553	Inner supporting sleeve

#### Cable strip length



#### Contact assembly with dielectric diameter over 1.4mm - without inner supporting sleeve

15.88<sup>±0.41</sup>

Outer male contact RMDX60- 2	Inner socket RFD26L- 1	Outer hyring Y00074	7.95 <sup>±0.41</sup>	Strip lengths of cable
			4.37 <sup>±0.41</sup>	

#### Step 1:

- Assemble outer hyring onto cable
- Assemble inner socket to inner conductor and crimp

#### Step 2:

- Insert the assembly into the outer male contact until the inner socket snaps into place
- The cable braid (shield) should now cover the barrel of the outer male contact as shown

#### Step 3:

- Slide outer hyring forward against spring and crimp in place as shown

Locking louver typical

Grounding louver typical

#### Contact assembly with dielectric diameter under 1.4mm - with inner supporting sleeve

17.53<sup>±0.41</sup>

Outer male contact RMDX60- 2	Inner socket RFD26L- 1	Inner supporting sleeve RMDXB- 055- 3	Outer hyring Y00074	9.12 <sup>±0.41</sup>	Strip lengths of cable
				7.54 <sup>±0.41</sup>	

#### Step 1:

- Assemble outer hyring onto cable
- Assemble supporting sleeve over dielectric and under braid
- Assemble inner socket to inner conductor, push back against sleeve and crimp

#### Step 2:

- Insert the assembly into the outer male contact until the inner socket snaps into place
- The cable braid (shield) should now cover the barrel of the outer male contact as shown

#### Step 3:

- Slide outer hyring forward against spring and crimp in place as shown

Locking louver typical

Grounding louver typical

Note : all dimensions are in mm



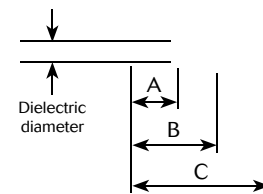
### Multipiece female contact with coax cable

Cable reference	Contact	Hyring complementary components	Outer contact crimp tool		Inner contact crimp tool		Cable strip length		
			Crimp tool M10S1J		Crimp tool M10S1J		A	B	C
			Die set	Stop bushing	Die set	Stop bushing			
RG161U	Female: RCDXK1 D28	Y00074	S221	SL471	S23D2	SL46D2	4.37	-	11.13
RG179							4.37		11.13
RG187U							4.37		11.13
RG188/ U							4.37		11.13
RG174/ U		S26D2			4.37		11.13		
RG178A/ U		Y00074 + RMDXB0553			S23D2		6.35		11.13
RG196U					S23D2		6.35		11.13
AMPHENOL 21- 598		Y00074			-		4.37		11.13
surprenant pn 8134					-		4.37		11.13

#### Multipiece kit details

RCDXK1 D28 includes	RCDX602D28	Outer contact
	RMD26L1 D28	Inner contact
	Y00074	Outer hyring
	RCDXB0553	Inner supporting sleeve

#### Cable strip length



#### Contact assembly with dielectric diameter over 1.4mm - without inner supporting sleeve

Strip lengths of cable	11.13 <sup>±0.41</sup>	Outer hyring Y00074	Inner pin RMD26L- 1	Outer female contact RCDX60- 2
	4.37 <sup>±0.41</sup>			

##### Step 1:

- Assemble outer hyring onto cable
- Assemble inner pin to inner conductor and crimp

##### Step 2:

- Insert the assembly into the outer female contact until the inner pin snaps into place
- The cable braid (shield) should now cover the barrel of the outer female contact as shown

##### Step 3:

- Slide outer hyring forward against spring and crimp in place as shown

#### Contact assembly with dielectric diameter under 1.4mm - with inner supporting sleeve

Strip lengths of cable	11.13 <sup>±0.41</sup>	Outer hyring Y00074	Supporting sleeve RCDXB- 055- 1	Inner pin RMD26L- 1	Outer female contact RCDX60- 2028
	6.35 <sup>±0.41</sup>				

##### Step 1:

- Assemble outer hyring onto cable
- Assemble supporting sleeve over dielectric and under braid
- Assemble inner pin to inner conductor, push back against sleeve and crimp

##### Step 2:

- Insert the assembly into the outer female contact until the inner pin snaps into place
- The cable braid (shield) should now cover the barrel of the outer female contact as shown

##### Step 3:

- Slide outer hyring forward against spring and crimp in place as shown

Outer hyring      Supporting sleeve

Note : all dimensions are in mm



### #16 coaxial contacts

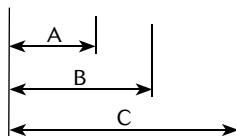
#### Coax cable with monocrimp contact cabling

Cable reference	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp	
						A	B	C	g dim	t dim	g dim	t dim
CDC PIN22939200	RMDX6046D28	RCDX6016D28	MOSIJ	S80	SL105	4.19	5.97	8.51	1.30/1.17	1.40/1.22	2.77/2.64	3.02/2.84
CDC PIN22939200	RMDX6046D28	RCDX6016D28		S87	SL105	5.08	6.35	8.89	1.30/1.17	1.40/1.22	2.77/2.64	3.02/2.84
CDC PIN245670000	RMDX6050D28	RCDX6016D28		S80	SL105	5.08	6.35	8.89	1.30/1.17	1.40/1.22	2.97/2.84	3.12/2.95
KX21TVT (europe) RG178 B/U	RMDX6034D28	RCDX6034D28		S82	SL105	5.08	6.35	8.89	1.30/1.17	1.32/1.17	2.84/2.74	3.07/2.9
RG178 / BU	RMDX6050D28	RCDX6016D28		S87	SL105	5.08	6.35	8.89	1.30/1.17	1.40/1.22	2.77/2.64	3.02/2.84
ampex	RMDX6032D28	RCDX6032D28		S80	SL105	5.08	6.35	11.68	1.30/1.17	1.40/1.22	2.97/2.84	3.12/2.95
TI PN 920580	RMDX6024D28	RCDX6024D28		S82	SL105	5.08	6.35	8.89	1.35/1.19	1.42/1.27	2.87/2.74	3.07/2.9
RG174/U	RMDX6032D28	RCDX6032D28		S80	SL105	5.08	6.35	11.68	1.30/1.17	1.40/1.22	2.97/2.84	3.12/2.95
Honeywell PN 58000062	RMDX6026D28	RCDX6026D28		S82	SL105	5.08	6.35	8.89	1.35/1.19	1.42/1.27	2.87/2.74	3.07/2.9
RG188A/U	RMDX6036D28	RCDX6036D28		S80	SL105	5.08	6.35	11.68	1.30/1.17	1.40/1.22	2.97/2.84	3.12/2.95
RG316/U	RMDX6036D28	RCDX6036D28		S80	SL105	5.08	6.35	11.68	1.30/1.17	1.40/1.22	2.97/2.84	3.12/2.95
PRD PN 247AS-C123-001	RMDX6018D28	RCDX6018D28		MOSGB ASSY Y TOOL DIE SET STOP BUSH NG MOSIJ TOOL	5.08	6.35	8.89	1.22/1.17	1.35/1.22	2.92/2.79	3.12/2.97	
PRD PN 247AS-C1251	RMDX6018D28	RCDX6018D28		MOSGB ASSY Y TOOL DIE SET STOP BUSH NG MOSIJ TOOL	5.08	6.35	8.89	1.22/1.17	1.35/1.22	2.92/2.79	3.12/2.97	
raychem 5024A3111	RMDX6052D28	RCDX6052D28		S88	SL105	5.08	6.35	11.68	1.37/1.27	1.45/1.32	2.92/2.79	
raychem 5026e1614	RMDX6036D28	RCDX6036D28		MOSGB ASSY Y TOOL DIE SET STOP BUSH NG MOSIJ TOOL	5.08	6.35	8.89	1.22/1.17	1.35/1.22	2.92/2.79	3.12/2.97	
JUDD C15013010902	RMDX6036D28	RCDX6036D28		MOSGB ASSY Y TOOL DIE SET STOP BUSH NG MOSIJ TOOL	5.08	6.35	8.89	1.22/1.17	1.35/1.22	2.92/2.79	3.12/2.97	
inner cond. #30, braid diam 2.64	RMDX6050D28	-		S80	SL105	5.1	6.35	8.9	-	-	-	-
inner cond. #30, braid diam 2.29	RMDX6050D28	-		S87	SL105	4.2	6.35	8.5	-	-	-	-
inner cond. #28, braid diam 2.9	RMDX6032D28	RCDX6032D28		S80	SL105	5.1	6.35	11.7	-	-	-	-
inner cond. #26, braid diam 1.78	RMDX6024D28	RCDX6024D28		S82	SL105	5.1	6.35	8.9	-	-	-	-
inner cond. #26, braid diam 3.05	RMDX6026D28	RCDX6026D28	S82	SL105	5.1	6.35	8.9	-	-	-	-	

- Select appropriate cable and contact combination.
- Select appropriate crimp tooling (hand tool, S-die set, stop bushing).
- Strip coax cable to the designated wire strip lengths.
- Insert the stripped coax into the rear of the contact.
- Crimp the contact.

See cable strip lengths

#### Cable strip length



RMDX60  
Male coax contact

RCDX60  
Female coax contact

Note : all dimensions are in mm



### Glossary of terms

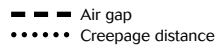
• **Clearance**

Per the IEC 60664-1 it is the shortest distance between two conductive parts even over the air.



• **Creepage distance**

Per the IEC 60664-1 it represents the shortest distance along the surface of the insulating material between two conductive parts.



• **Working voltage**

Per the IEC 60664-1 it is the highest r.m.s. value of A.C. or D.C. voltage across any particular insulation which can occur when the equipment is supplied at rated voltage.

• **Rated impulse voltage**

Impulse withstands voltage value assigned by the manufacturer to the equipment or to a part of it characterizing the specified withstand capability of its insulation against transient overvoltage.

• **Working current**

It is the maximum continuous and not interrupted current able to be carried by all contacts without exceeding the maximum temperature of the insulating material.

• **Transient voltage**

Extract from the IEC 60664-1: Short duration overvoltage of a few millisecond or less, oscillatory or non-oscillatory, usually highly damped.

• **CTI (Comparative Tracking Index)**

The CTI value is commonly used to characterize the electrical breakdown properties of an insulating material. It allows users to know the tendency to create creepage paths. This value represents the maximum voltage after 50 drops of ammonium chloride solution without any breakdown.

• **RTI (Relative temperature Index):**

Extract from ULs website:

“Maximum service temperature for a material, where a class of critical property will not be unacceptably compromised through chemical thermal degradation, over the reasonable life of an electrical product, relative to a reference material having a confirmed, acceptable corresponding performance defined RTI.

- **RTI Elec:** Electrical RTI, associated with critical electrical insulating properties.

- **RTI Mech Imp:** Mechanical Impact RTI, associated with critical impact resistance, resilience and flexibility properties.

- **RTI Mech Str:** Mechanical Strength (Mechanical without Impact) RTI, associated with critical mechanical strength where impact resistance, resilience and flexibility are not essential”



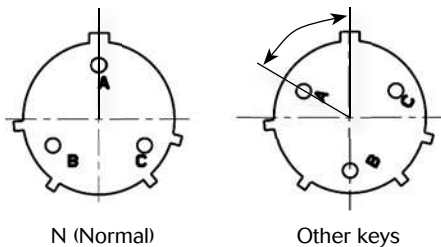


### Discrimination/Keying methods

In applications where similar connectors are used next to each other, mismatching can be a reason for disturbances, system failure or even danger to operating personnel.

To eliminate mismatching, all TRIM TRIO® connectors can be equipped with discrimination keys, which offer unlimited possibilities for an error avoiding interconnection system.

The other way around is to rotate the insert into the shell.



*Note: Insert rotated in body  
(viewed from front face of male insert)*

Connectors with rotated inserts can be ordered by adding the suffix W, X, Y or Z to the standard part number.

e.g. **UTS6JC104S** (N key) → **UTS6JC104SW** (W key)

Shell size	Layout	Discrimination keys degrees			
		W	X	Y	Z
8	8E2	58°	122°		
	8E3 8E3A	60°	210°		
	8E4	45°			
	8E33	90°			
10	102W2 103 104				
	106 10E6 10E7	90°			
	10E98	90°	180°	240°	270°
12	12E2				
	12E3			180°	
	124 128				
	12E8	90°	112°	203°	292°
	1210 12E10	60°	155°	270°	295°
	12E14	45°			
14	14E5	40°	92°	184°	273°
	142G1 147				
	1412	60°			
	14E12	43°	90°		
	14E15	17°	110°	155°	234°
	14E18	15°	90°	180°	270°
	1419	30°	165°	315°	
	14E19	30°	165°	315°	
18	18E11	62°	119°	241°	340°
	1823		158°		270°
	18E30	180°	193°	285°	350°
	1832 18E32	85°	138°	222°	265°



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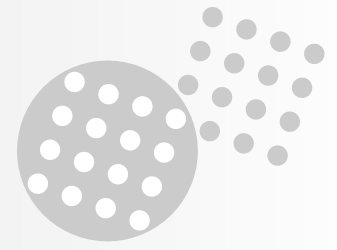
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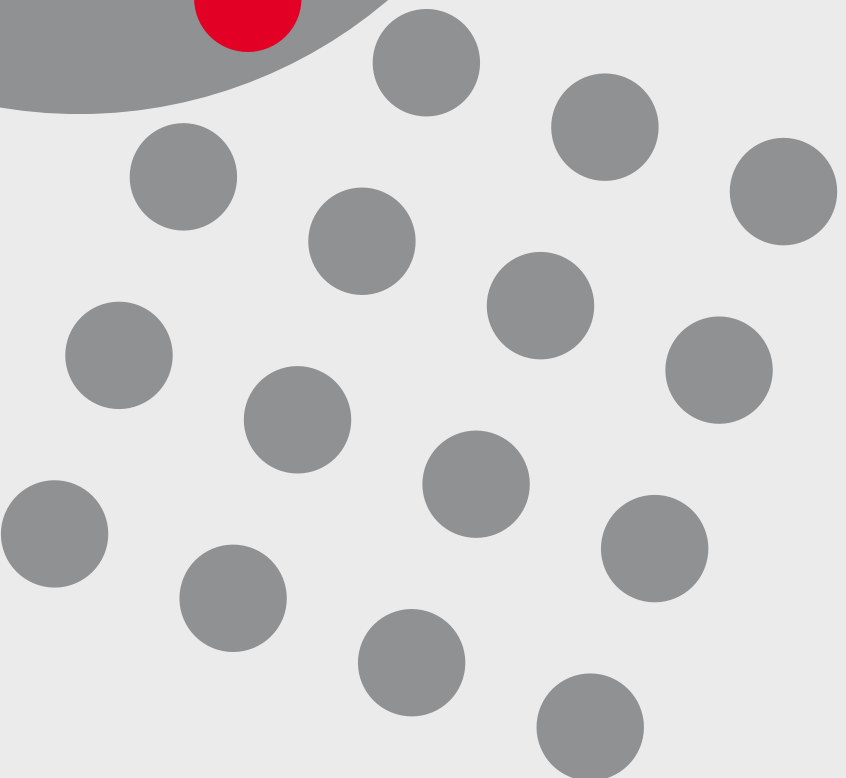
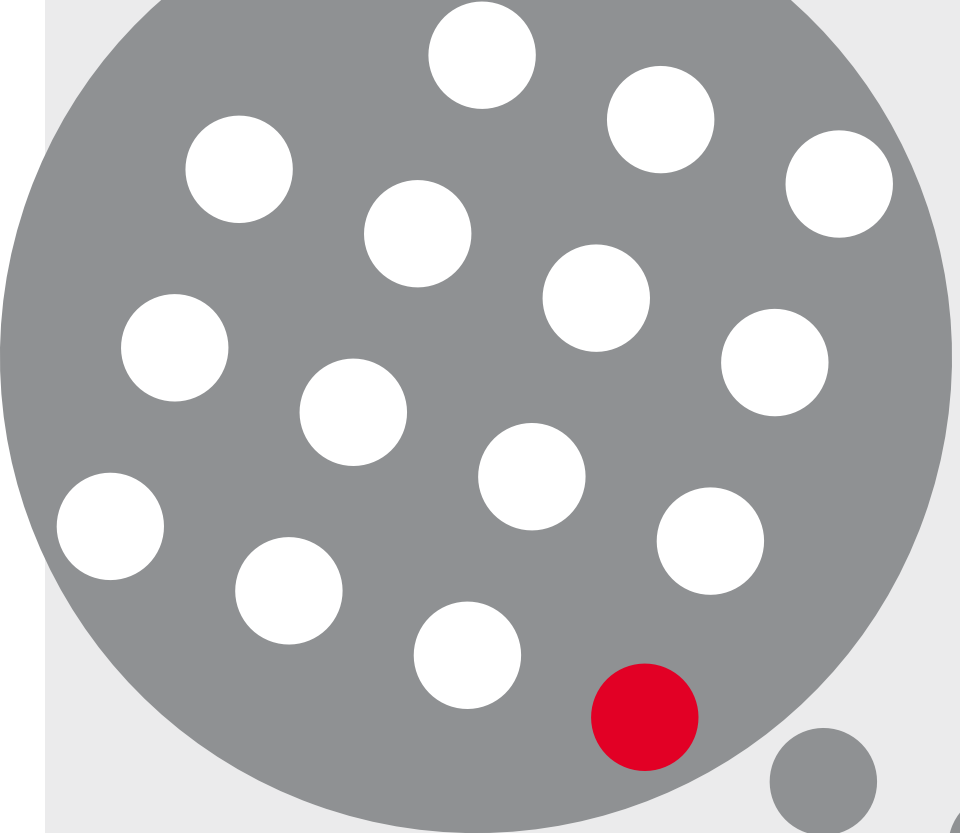
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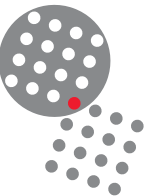
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