

UTS SERIES



SOURIAU

Waterproof Plastic Connectors
IP68 and IP69K

Esterline
Connection Technologies



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Typical Applications



Energy - Power



Off-Road



Building Automation & Control



Instrumentation - Measurement



Rail



Stage - Light

Features & Benefits

WATER PROOF

IP68/69K Dynamic Mated & Unmated

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

UV RESISTANT

No Degradation Over Time

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

UL/IEC COMPLIANT

Qualified & Certified

In accordance with:

- UL 1977 - Certificate ECBT2, File number: E169916
- CSA C22.2 n°182.3 - Certificat ECBT8, File number: E169916.

QUICK MATING

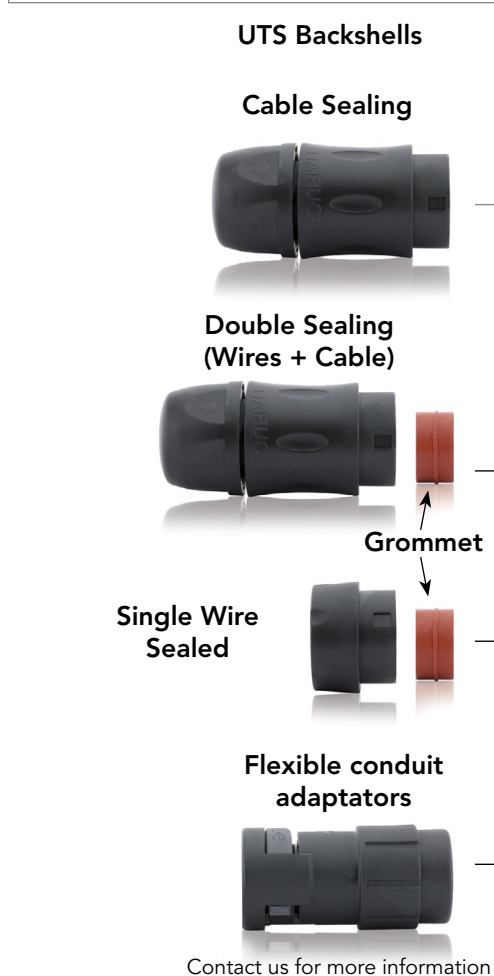
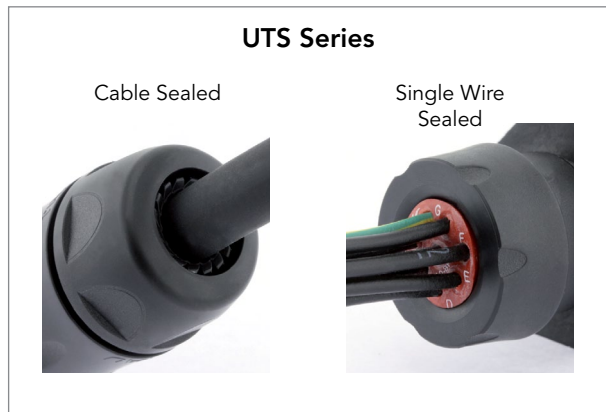
1/3 Bayonet Coupling

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

COST SAVINGS

Mixed Power & Signal Contacts

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



Contacts Supplied Separately



Choice of Crimp Contacts

- Machined
- Stamped and Formed
- Coaxial

PCB Contacts

Fiber Optic

**Contacts Loaded
Screw Termination**

**Contacts Loaded
Hand solder**

Plug



UTS Sealed Unmated



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



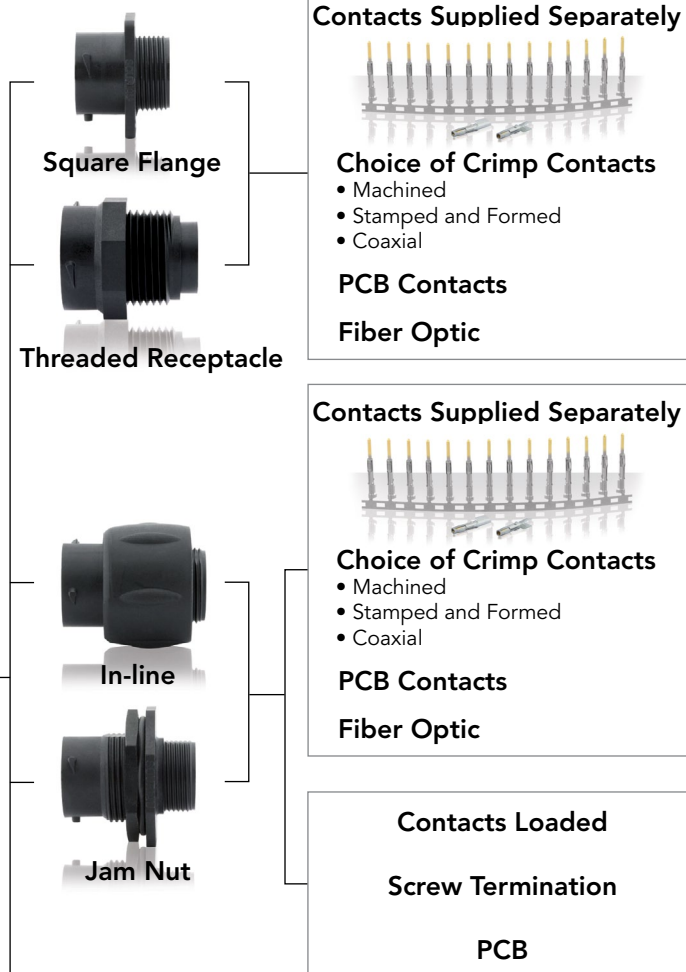
Corrosion-proof
Plastic housing

Overmoulded Cable Assembly

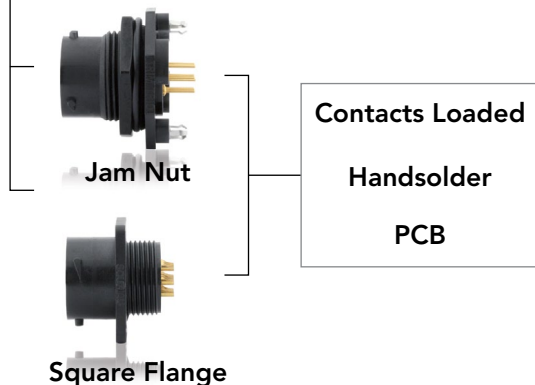


Overview

UTS Standard Receptacle



UTS Sealed Unmated Receptacle



UTS Backshells

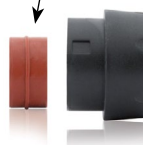
Cable Sealing



Double Sealing (Wires + Cable)



Grommet



Single Wire Sealed

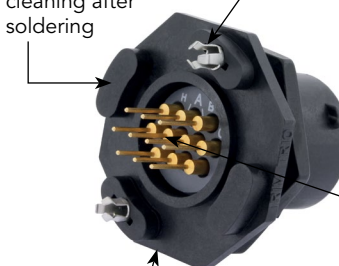
Flexible conduit adaptators



Contact us for more information

UTS PCB Contacts

Stand-offs to allow cleaning after soldering



Metal hold down clips

- to lock the connector easily on the PCB and to release stress on solder joints
- suitable for soldering in a metallic hole

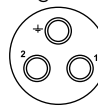
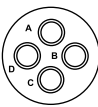
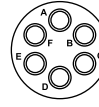
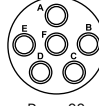
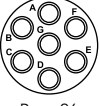
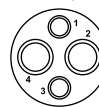
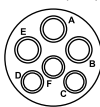
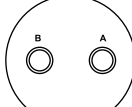
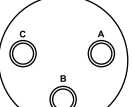
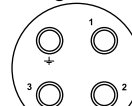
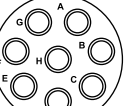
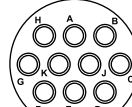
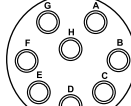
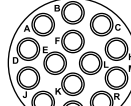
Low profile housing to limit space between panel and PCB

Pre-assembled PCB contacts

- machined or stamped versions available
- different solder tail lengths possible
- different plating options

Layouts

(Electrical parameter according to IEC)

Shell Size	Contact #16 (Ø 1.6mm)	Contact #20 (Ø 1.0mm)	Contact #8 (Ø 3.6mm)	Hybrid & others
8		8E2/8D2⁽¹⁾ 7A 32V 2 contacts  Page 20 8E3/8D3⁽¹⁾ 7A 32V 3 contacts  Page 36 8E3A/8D3A⁽¹⁾ 7A 50V 3 contacts  Page 40 8E98/8D98⁽¹⁾ 7A 50V 3 contacts  Page 40 8E33/8D33⁽¹⁾ 7A 50V 3 contacts  Page 44 8E4/8D4^{(1)*} 7A 32V 4 contacts  Page 60		
10	103 16A 300V 2+ground  Page 28 104⁽³⁾ 13A 150V 4 contacts  Page 68	106* 10E6^{(1)/10D6} 7A 32V 6 contacts  Page 84 10E98/10D98 7A 50V 6 contacts  Page 88 10E7^{(1)/10D7} 7A 50V 7 contacts  Page 96		102W2 25A 150V 4 contacts 2xØ2.4 (#12) 2xØ1.0 (#20)  Page 64 103W3 5A 32V 6 contacts 3xØ1.6 (#16) 3xØ1.0 (#20)  Page 80
12	12E2/12D2 16A 150V 2 contacts  Page 24 12E3/12D3 16A 150V 3 contacts  Page 48 124 12E4/12D4 16A 300V 3+ground  Page 52 128^{(1) (3)} 10A 80V 8 contacts  Page 100	1210* 12E10/12D10 6A 50V 10 contacts  Page 112 12E8/12D8 6A 32V 8 contacts  Page 104 12E14/12D14 5A 32V 14 contacts  Page 128		

1: M12, M16 and M20 threaded receptacle available

2: NPT available

3: Discrete wire grommet option

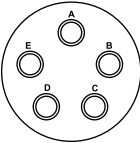
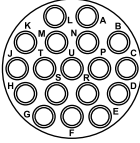
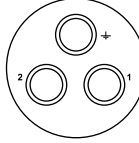
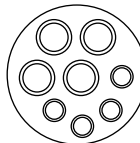
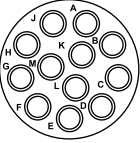
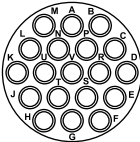
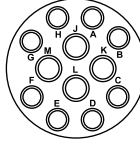
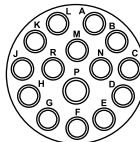
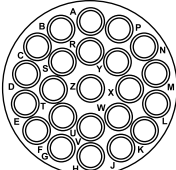
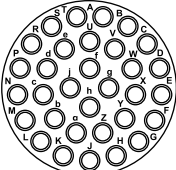
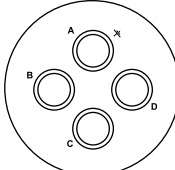
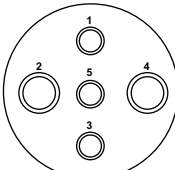
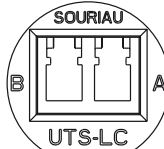
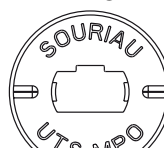
* Ethernet compatible: see pages 195 & 196

Contacts #20:
from AWG 26 to 18
0.13 to 0.93 mm²

Contacts #16:
from AWG 30 to 14
0.05 to 2.5 mm²

Contacts #12:
from AWG 22 to 12
0.13 to 4 mm²

Contacts #8:
from AWG 16 to 8
1.5 to 10 mm²

Shell Size	Contact #16 (Ø 1.6mm)	Contact #20 (Ø 1.0mm)	Contact #8 (Ø 3.6mm)	Mixed Power
14	14E5/14D5 16A 150V 5 contacts  Page 72	14E18/14D18 5A 50V 18 contacts  Page 136	142G1⁽²⁾ 40A 300V 2+ground  Page 32	148 17A 230V 8 contacts 4xØ1.6 (#16)+4xØ2.4 (#12)  Page 108
	1412⁽³⁾ 10A 63V 12 contacts  Page 116	1419 14E19/14D19 5A 32V 19 contacts  Page 140		14E12/14D12 4A 50V 12 contacts 4xØ1.6 (#16)+8xØ1.0 (#20)  Page 120
18				14E15/14D15 4A 50V 15 contacts 1xØ1.6 (#16)+14xØ1.0 (#20)  Page 132
	1823 9A 63V 23 contacts  Page 144	18E32/18D32 4A 32V 32 contacts  Page 148	183G1⁽²⁾ 32A 300V 3+ground  Page 56	18X2M3⁽²⁾ 32A 300V 5 contacts 3xØ1.6 (#16)+2xØ3.6 (#8)  Page 76
				LC SOURIAU UTS-LC  Page 152
				MPO SOURIAU UTS-MPO  Page 156

XXXXXX blue highlighted items: UTS Sealed in Unmated Condition

General Technical Characteristics



Materials

- **Body connector + Backshell:** Thermoplastic
- **Insert:**
 - UTS Standard, UTS Single Wire Sealed, UTS Screw Termination Contacts: Thermoplastic
 - UTS Sealed Unmated Handsolder & UTS Sealed Unmated with PC Tails Contacts: Elastomer
- **Nut:** Metal
- **Contacts:** See page 161
- **Halogen free**
- **RoHS compliant & conforms to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)**



Environmental

- **Operating temperature:**
 - from -40°C to +105°C
 - 40/100/21 per NFF 61-030
- **Flammability rating:**
 - UL94 V-0 (all UTS except the Sealed Unmated version) see page 180
 - UL94 HB (UTS Sealed Unmated version only) see page 180
 - I2F3 according to NFF 16101 & NFF 16102
- **Salt spray:**
 - per EIA-026A ≥500 hours
- **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 ISO 4892) and F1 rated per UL 746C
- **Sealing:**
 - UTS Standard: IP68/IP69K dynamic (mated)
 - UTS Sealed Unmated version: IP68/IP69K dynamic (unmated)
 - UTS Single Wire Sealed: IP67/69K (up to IP68 with double sealing backshell)
 - UTS Screw Termination Contacts: IP68/IP69K dynamic (mated)

Note: IP68=10 m underwater during 1 week
- **Fluid resistance:**
 - Gas and Oil
 - Mineral oil
 - Acid bath
 - Basic bath

Electrical

- **In accordance with:**
 - UL 1977: Certificat ECBT2
File number: E169916
 - CSA C22.2 n°182.3: Certificat ECBT8
File number: E169916



- Also see pages 10 & 11

Mechanical

- **Durability:**
 - 250 matings & unmatings per MIL-C-26482
- **Vibration resistance (all UTS versions except UTS Screw Termination contacts):**
 - Sinusoidal vibrations per IEC 60512-4 - from 10 to 2000 Hz
- **Thermal shock:**
 - 5 cycles 30 min. from -40°C to 105°C per MIL-STD-1344 method 1003

UTS SERIES

UTS Series

Connector

■ Overmoulded Cable Assembly	16
■ 2 contacts	
8E2/8D2: 7A 32V	20
12E2/12D2: 16A 150V	24
■ 2 contacts + ground	
103: 16A 300V	28
142G1: 40A 300V	32
■ 3 contacts	
8E3/8D3: 7A 32V	36
8E3A/8E98 - 8D3A/8D98: 7A 50V	40
8E33/8D33: 7A 50V	44
12E3/12D3: 16A 150V	48
■ 3 contacts + ground	
124 - 12E4/12D4: 16A 300V	52
183G1: 32A 300V	56
■ 4 contacts	
8E4/8D4*: 7A 32V	60
102W2: 25A 150V	64
104: 13A 150V	68
■ 5 contacts	
14E5/14D5: 16A 150V	72
18X2M3: 32A 300V	76
■ 6 contacts	
103W3: 5A 32V	80
106* - 10E6/10D6: 7A 32V	84
10E98/10D98: 7A 50V	88
■ 6 contacts + ground	
147 - 14E7/14D7: 16A 300V	92
■ 7 contacts	
10E7/10D7: 7A 50V	96
■ 8 contacts	
128: 10A 80V	100
12E8/12D8: 6A 32V	104
148: 17A 230V	108
■ 10 contacts	
1210* - 12E10/12D10: 6A 50V	112
■ 12 contacts	
1412: 10A 63V	116
14E12/14D12: 4A 50V	120
1492: 10A 63V	124
■ 14 contacts	
12E14/12D14: 5A 32V	128
■ 15 contacts	
14E15/14D15: 4A 50V	132
■ 18 contacts	
14E18/14D18: 5A 50V	136
■ 19 contacts	
1419 - 14E19/14D19: 5A 32V	140
■ 23 contacts	
1823: 9A 63V	144
■ 32 contacts	
1832 - 18E32: 4A 32V	148
■ LC	152
■ MPO	156

Electrical parameters according to IEC

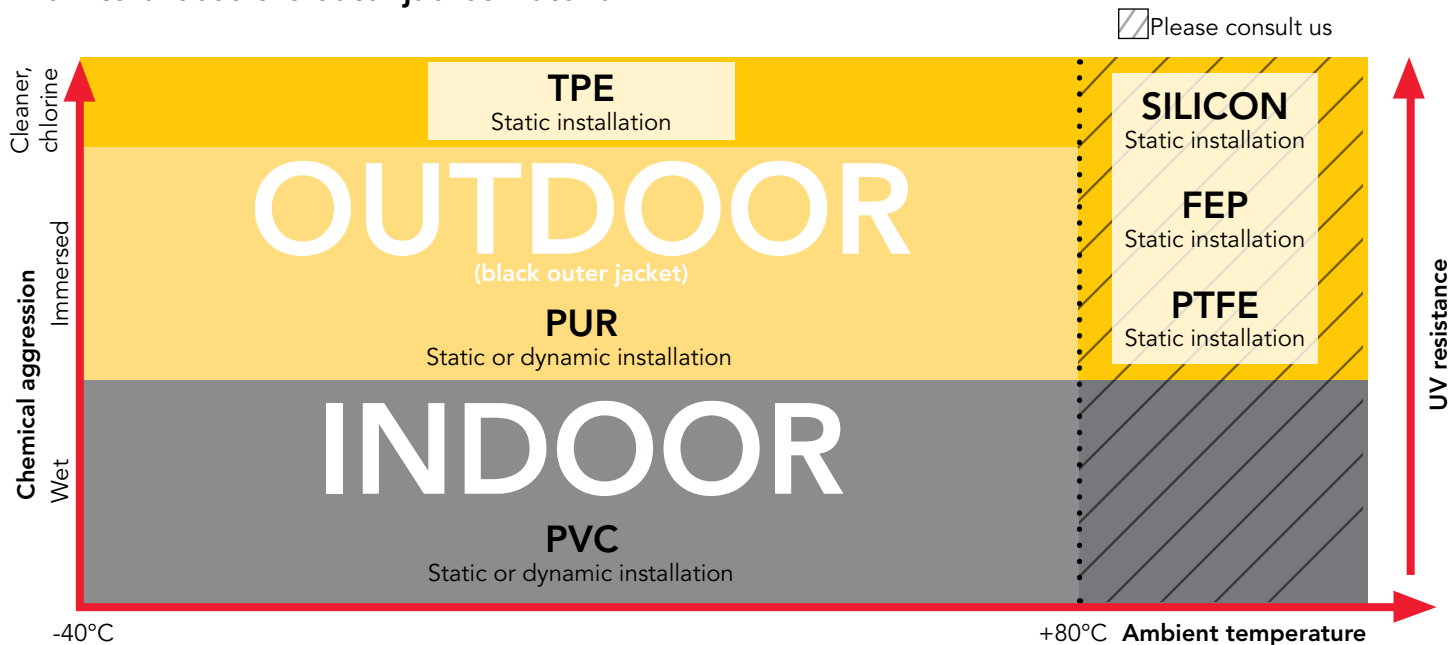
* Ethernet compatible see pages 195 & 196

Overmoulded Cable Assembly

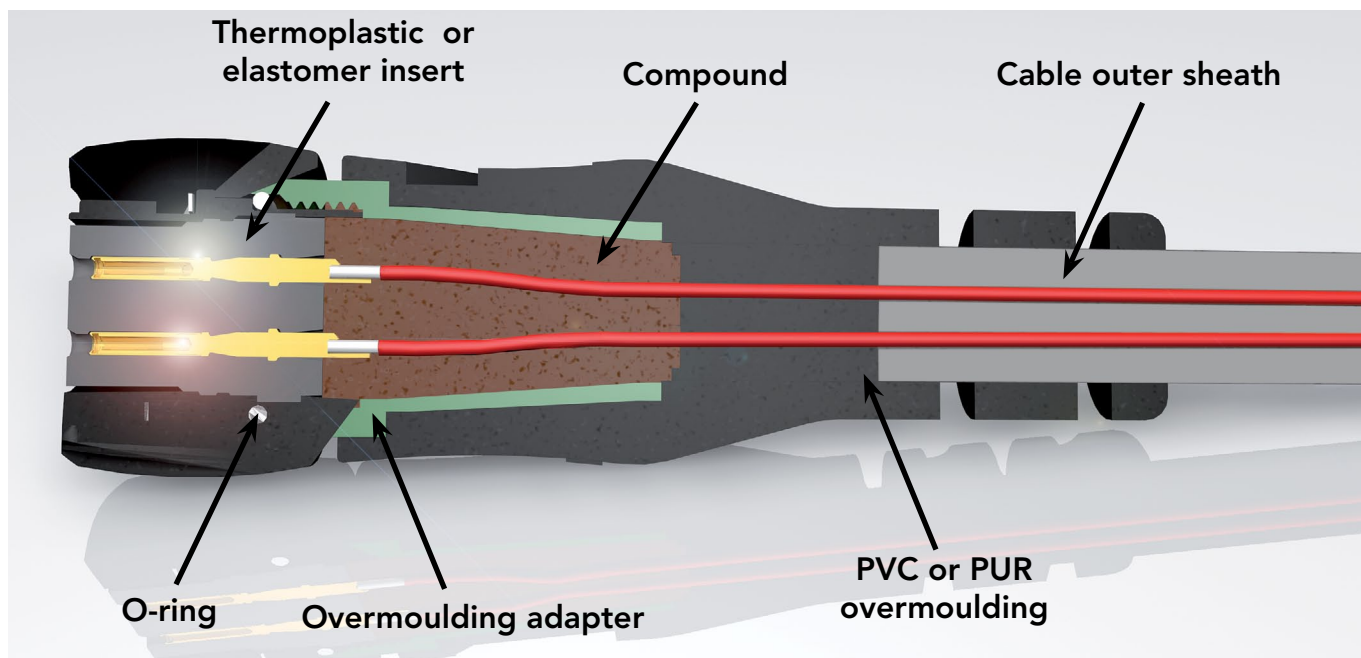
SOURIAU has provided connectors in various applications for more than 90 years and used in the most extreme environments. Conscious about the difficulty to finding a quick and a reliable harness manufacturer, we began in-house cable assembly production. It allows customers to reduce the number of suppliers, 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 to 90 degrees and avoid stress on the cable terminated to the connector. Also, as the wires are encapsulated inside the molding, a barrier is created which prevents any liquid from entering the equipment through the connector if the cable jacket is breached.



How to choose the outer jacket material

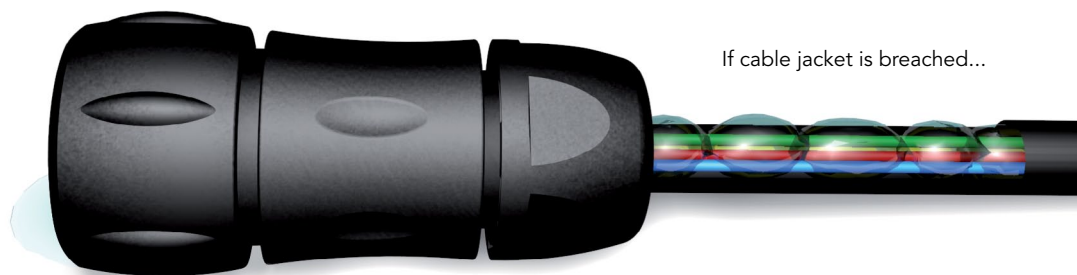


Overmoulding Description



Connector with cable gland backshell

GOOD



...water ingress unhampered, leading to damage.

Overmoulded connector

BEST



...prevents water ingress via capillary action.

UTS Waterproof Plastic Overmould



HAUTS Standard Offering Description

Cable

- PVC outer sheath (grey color)
- Wire section 1.5 mm² for #16 contact
- Wire section 0.5 mm² for #20 contact
- 300V
- Unshielded
- Flammability rating IEC (UL1581 Sec.1160)
- Operating temperature: -40°C +70°C

Overmoulding Specifications

PLATING	SALT SPRAY	TEMPERATURE*	WATERPROOF*	MECHANICAL
No plating	500 H	-40°C up to + 105°C	IP68/IP69K dynamic (mated)	250 matings/unmatings

* With appropriate cable and overmoulding

Example of Customized Cable Assemblies



Overmoulding on Curly Cable



Overmoulding with Double Ends



Harness for PCB Connection

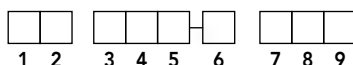
To define your customized cable assembly, please consult our technical services.

Cable Information

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

Standardisation of European Cable - DIN VDE 0281/DIN VDE 0282/DIN VDE 0292

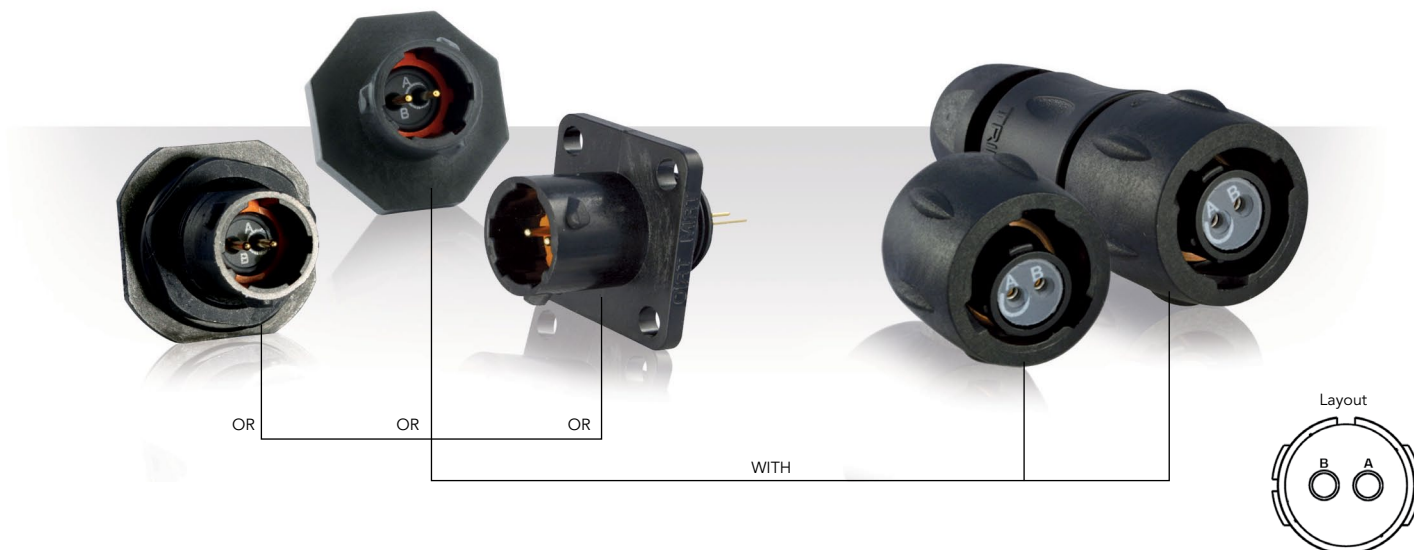
Harmonized wire coding system



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: 300/300V	V: PVC	V: PVC	H: Ribbon cable, separable	U: Single wire		X: Without protective conductor	Area specified in mm ²
A: National Type	05: 300/500V	R: Rubber	R: Rubber	H2: Ribbon cable non-separable	R: Multi-wire		G: With protective conductor	
	07: 450/750V	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: H05VV F3x1.5

8E2/8D2 (Shell size 8, 2x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsolder electrical contacts loaded see page 23	Square flange receptacle	Without (Fig.1)	UTS08E2P	UTS08E2S
	Plug	Without (Fig.7)	UTS68E2P	UTS68E2S
		Cable gland (Fig.8)	UTS6JC8E2P	UTS6JC8E2S
	Jam nut receptacle	Without (Fig.4)	UTS78E2P	UTS78E2S
PCB contacts loaded see page 23	M12 threaded receptacle	Without (Fig.3)	UTS78E2PM12	UTS78E2SM12
	Square flange receptacle	Without (Fig.2)	UTS08D2P	UTS08D2S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.6)	UTS78D2P32	UTS78D2S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.5)	UTS78D2P	UTS78D2S
	M12 threaded receptacle	Without (Fig.3)	UTS78D2PM12	UTS78D2SM12

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 2x0.5	HAUTS0V8E2PST100	HAUTS0V8E2SST100
Right angle ending	Plug	0.5	H05 VV - F 2x0.5	HAUTS0V8E2PRA100	HAUTS0V8E2SRA100

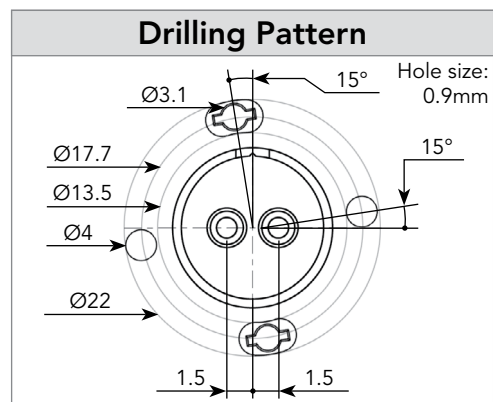
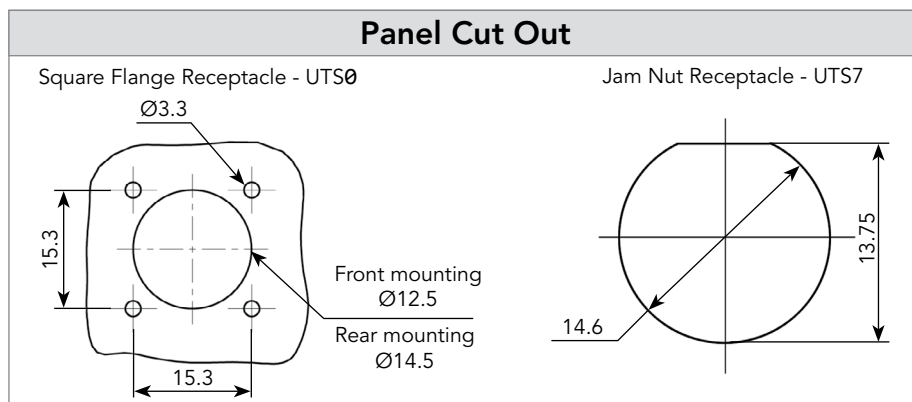
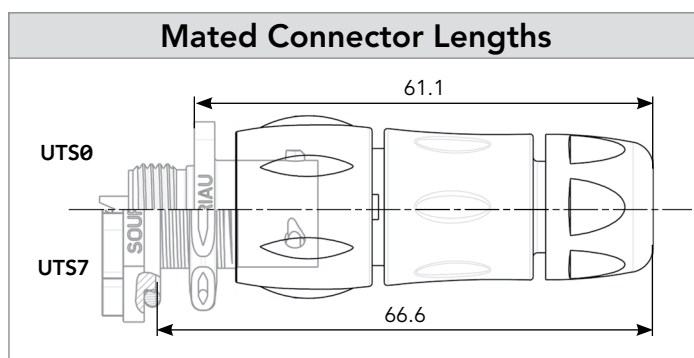
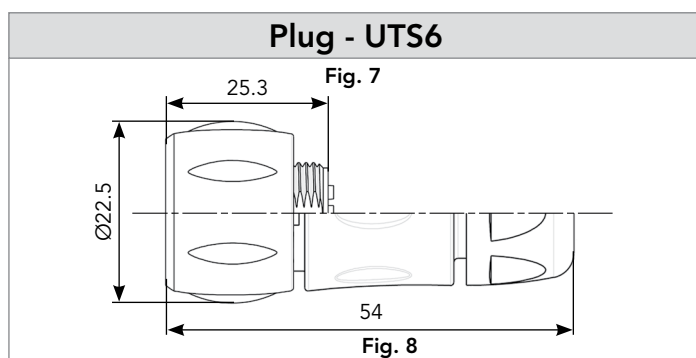
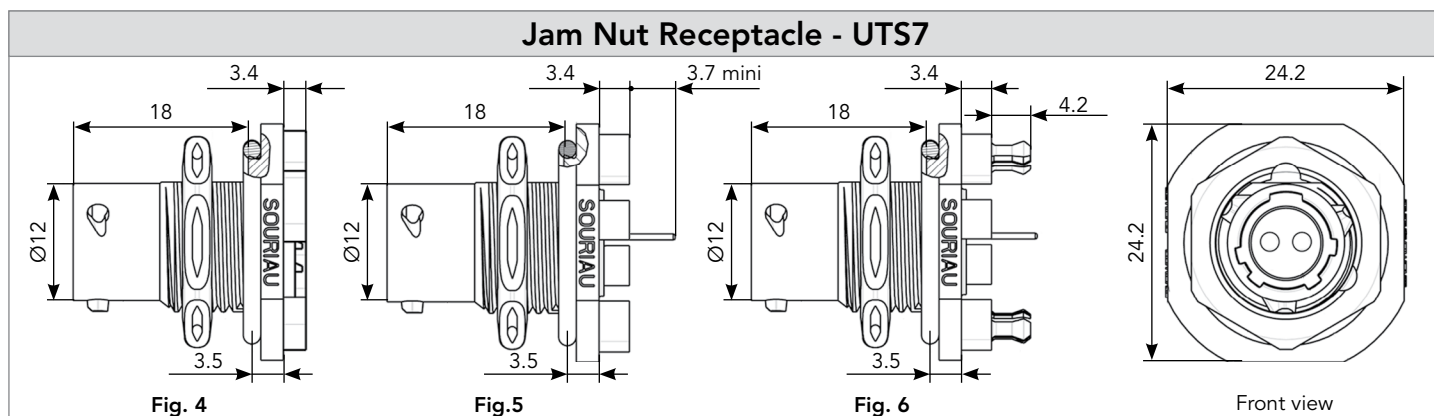
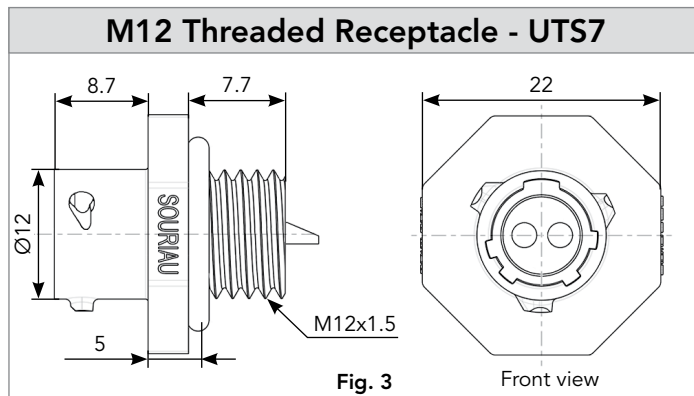
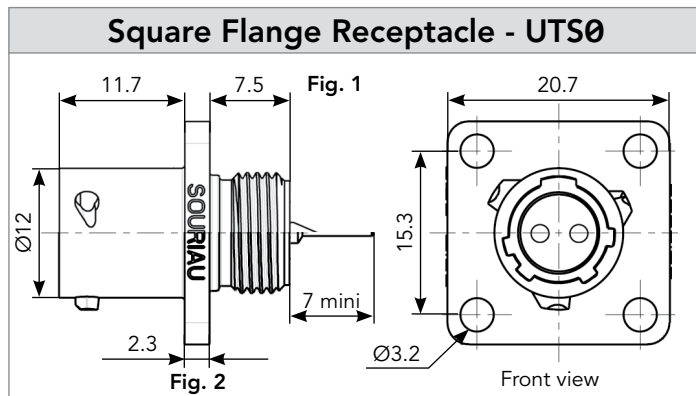
(1) Other cable available on demand

* Other lengths available on demand

8E2/8D2 (Shell size 8, 2x#20)

2

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

8E2/8D2 (Shell size 8, 2x#20)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number
UTS8DCG



IP68/69K Metal terminal

Part number
UTS8DCGR

Square Flange Sealing Cap



IP68/69K 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
UTFD11B

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers	
Receptacles	Plugs
UTS78CCRR	UTS68CCRR
UTS78CCRY	UTS68CCRY
UTS78CCRG	UTS68CCRG

8E2/8D2 (Shell size 8, 2x#20)

2

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

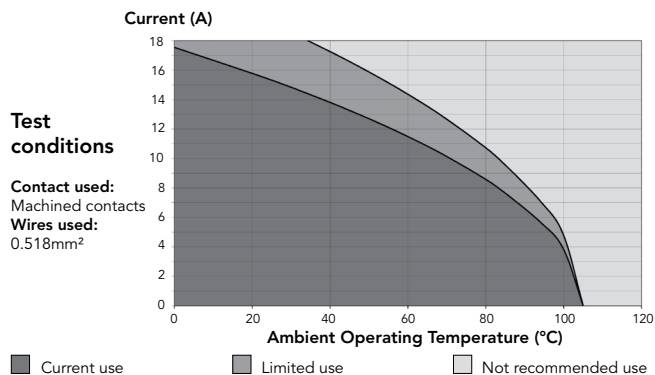
Electrical Characteristics

UL
7A 250V UL94 HB

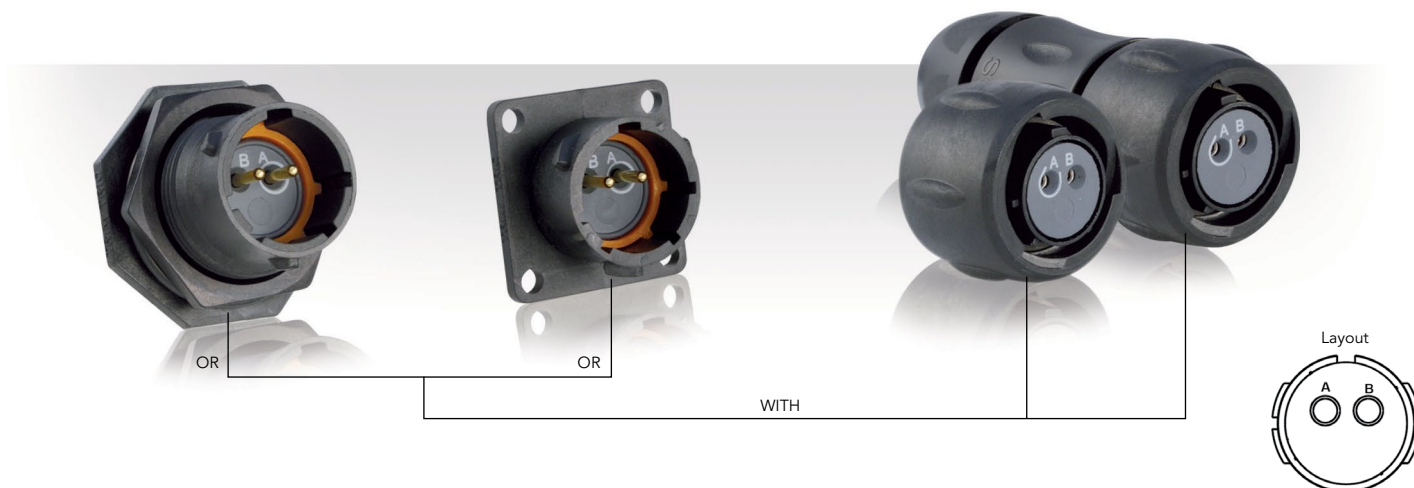
CSA
7A 250V UL94 HB

IEC
7A 32V 1.5kV 3

UTS 8E2/8D2 Derating Curves



12E2/12D2 (Shell size 12, 2x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 27	Square flange receptacle	Without (Fig.1)	UTS012E2P	UTS012E2S
	Plug	Without (Fig.6)	UTS612E2P	UTS612E2S
		Cable gland (Fig.7)	UTS6JC12E2P	UTS6JC12E2S
	Jam nut receptacle	Without (Fig.3)	UTS712E2P	UTS712E2S
PCB contacts loaded see page 27	Square flange receptacle	Without (Fig.2)	UTS012D2P	UTS012D2S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.5)	UTS712D2P32	UTS712D2S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.4)	UTS712D2P	UTS712D2S

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 2x1.5	HAUTS0V12E2PST100	HAUTS0V12E2SST100
Right angle ending	Plug	1.5	H05 VV - F 2x1.5	HAUTS0V12E2PRA100	HAUTS0V12E2SRA100

(1) Other cable available on demand

* Other lengths available on demand

12E2/12D2 (Shell size 12, 2x#16)

Dimensions

2

Square Flange Receptacle - UTS0

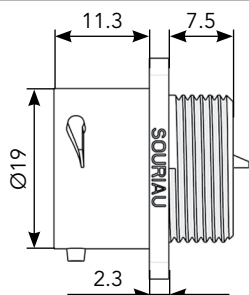


Fig. 1

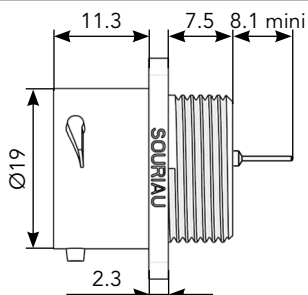
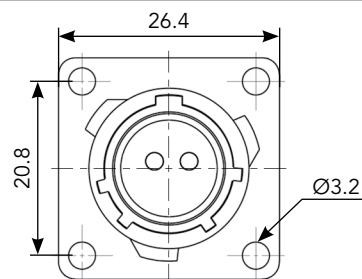


Fig. 2



Front view

Jam Nut Receptacle - UTS7

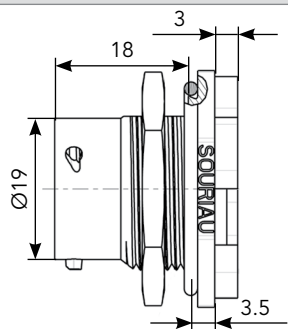


Fig. 3

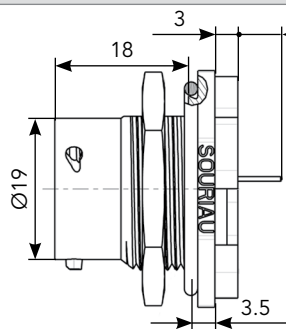


Fig. 4

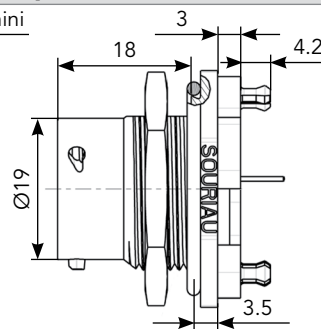
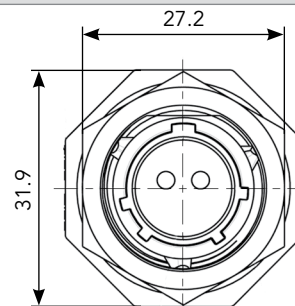


Fig. 5



Front view

Plug - UTS6

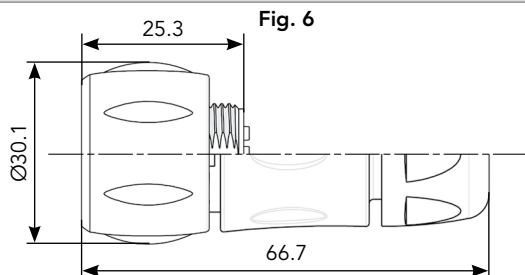


Fig. 6

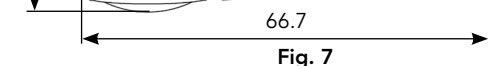
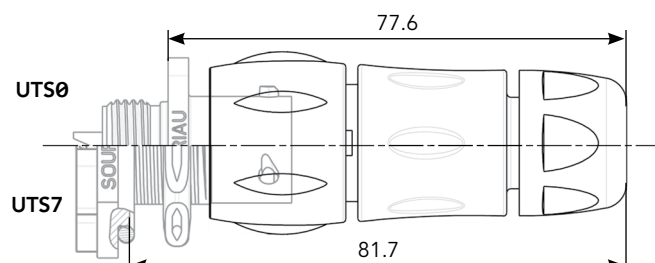


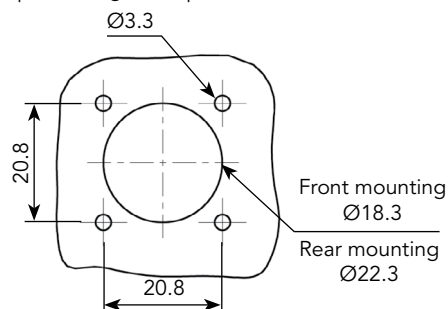
Fig. 7

Mated Connector Lengths

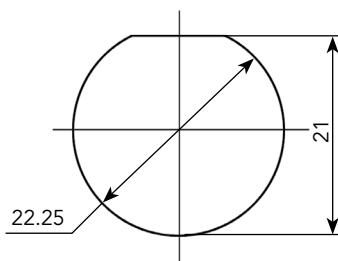


Panel Cut Out

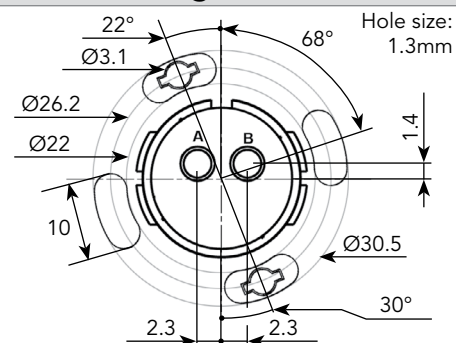
Square Flange Receptacle - UTS0



Jam Nut Receptacle - UTS7



Drilling Pattern



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

12E2/12D2 (Shell size 12, 2x#16)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number

UTS12DCG



IP68/69K

Metal terminal

Part number

UTS12DCGR

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS12DCGE

Plug Sealing Cap



IP68/69K

Part number

UTS612DCG

Plastic Protective Cap



Part numbers

Receptacle
cap

85005587A

Plug cap

85005596

Gasket



Part numbers

UTFD13B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

UTS712CCRR

UTS712CCRY

UTS712CCRG

Plugs

UTS612CCRR

UTS612CCRY

UTS612CCRG

12E2/12D2 (Shell size 12, 2x#16)

2

Contacts

#16	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 to 14	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

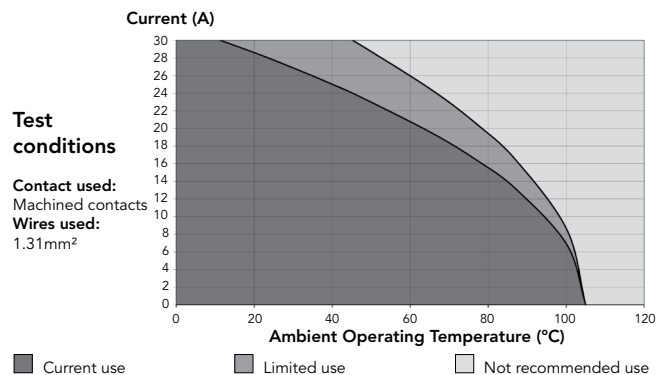
Electrical Characteristics

UL
13A 600V UL94 HB

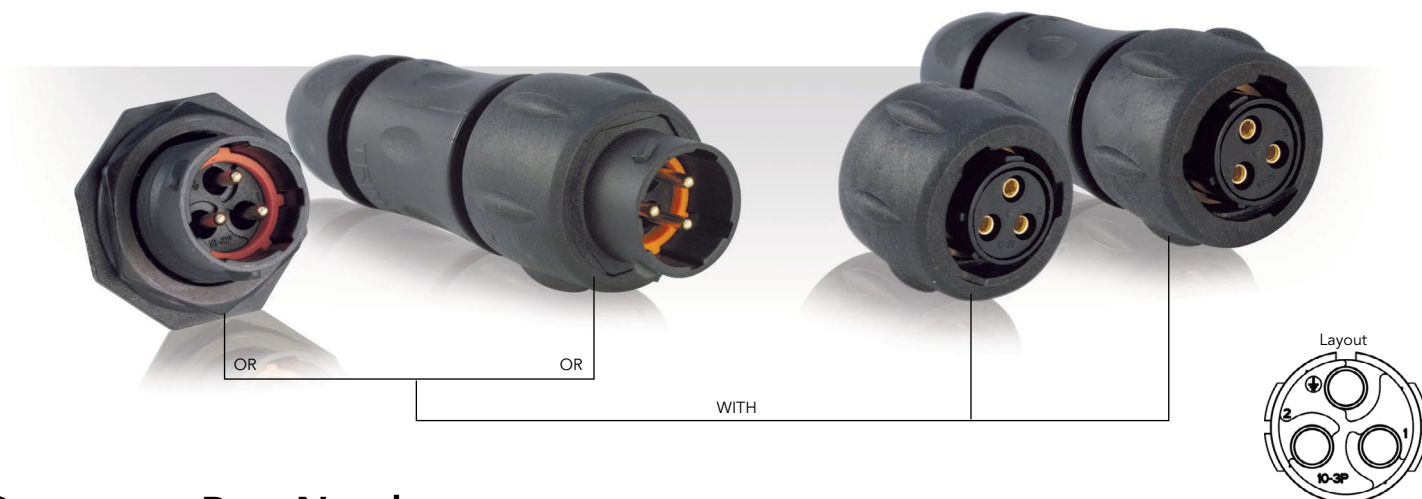
CSA
13A 600V UL94 HB

IEC
16A 150V 2.5kV 3

UTS 12E2/12D2 Derating Curves



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



Connector Part Numbers

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

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 3x1.5	HAUTS0V103PST100	HAUTS0V103SST100
Right angle ending	Plug	1.5	H05 VV - F 3x1.5	HAUTS0V103PRA100	HAUTS0V103SRA100

(1) Other cable available on demand

* Other lengths available on demand

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

Dimensions



Free Hanging - UTS1

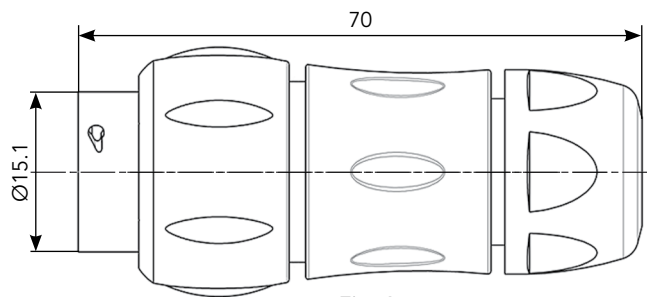


Fig. 1

Plug - UTS6

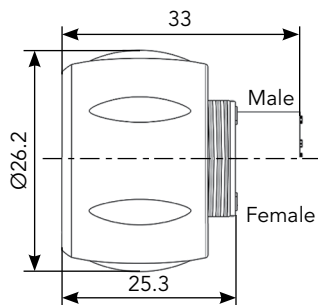


Fig. 2

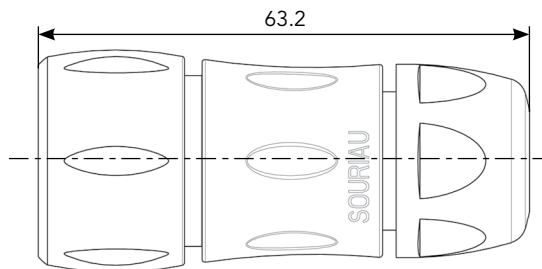


Fig. 3

Jam Nut Receptacle - UTS7

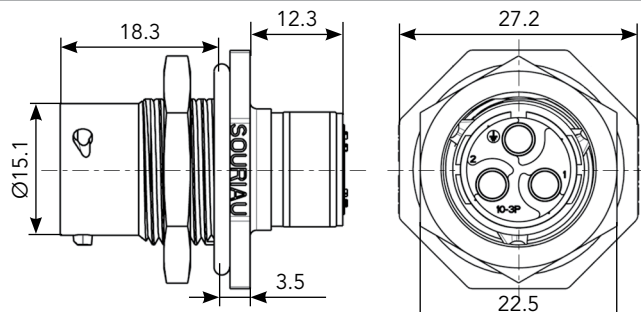
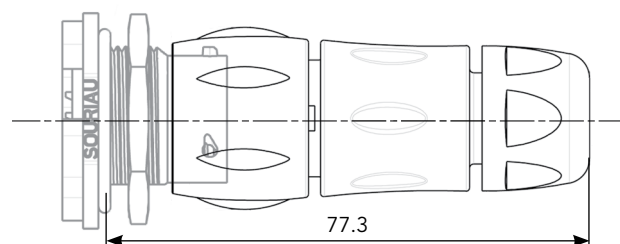


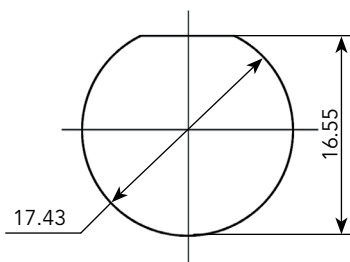
Fig. 4

Mated Connector Length - UTS7



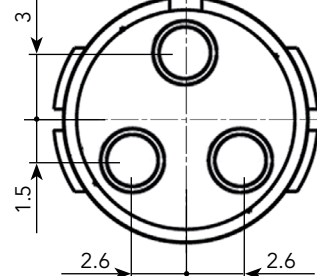
Panel Cut Out

Jam Nut Receptacle - UTS7



Drilling Pattern

Hole size:
1.3mm



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

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

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS10DCG



IP68/69K

Metal terminal

Part number
UTS10DCGR

Handle (without Head)



Part number
SHANGLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS610DCG

Extraction Tool #16



Part number
RX2025GE1

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yolk090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164
* Heads to be used with handle PN: SHANGLES

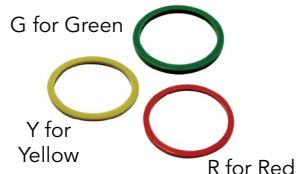
Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005586A	85005595

Color Coding Rings



Part numbers

Receptacles	Plugs
UTS710CCRR	UTS610CCRR
UTS710CCRY	UTS610CCRY
UTS710CCRG	UTS610CCRG



Handle



Head



Complete set

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

Contacts



#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: SM20ML1TK6 (3): For dimensions see page 168 Note: all dimensions are in mm

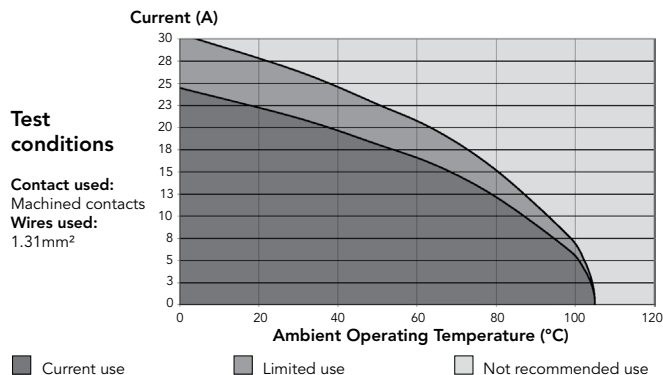
Electrical Characteristics

UL
10A 500V UL94 V-0

CSA
7A 500V UL94 V-0

IEC
16A 300V 4kV 3
Temperature elevation: 50°C

UTS 103 Derating Curves



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



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 35	Square flange receptacle	Without (Fig. 1)	UTS0142G1P	-
	Free hanging receptacle	Cable gland (Fig. 6)	UTS1JC142G1P	UTS1JC142G1S
	Plug	Without (Fig. 3)	UTS6142G1P	UTS6142G1S
		Cable gland (Fig. 4)	UTS6JC142G1P	UTS6JC142G1S
	Jam nut receptacle	Without (Fig. 2)	UTS7142G1P	UTS7142G1S
	NPT threaded receptacle	Without (Fig. 5)	-	UTS7142G1SNPT
PCB contacts supplied separately see page 35	Square flange receptacle	Without (Fig. 1)	UTS0142G1P	-
	Jam nut receptacle	Without (Fig. 2)	UTS7142G1P	UTS7142G1S
	NPT threaded receptacle	Without (Fig. 5)	-	UTS7142G1SNPT
	NPT threaded receptacle with nut	Without (Fig. 5)	-	UTS7142G1SNPTNUT

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V142G1PST100	HAUTS0V142G1SST100
Right angle ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V142G1PRA100	HAUTS0V142G1SRA100

(1) Other cable available on demand

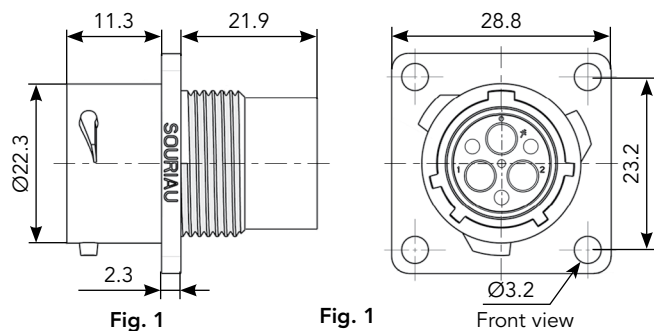
* Other lengths available on demand

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

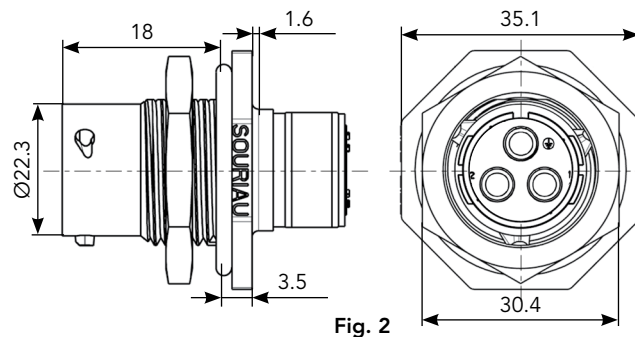
Dimensions



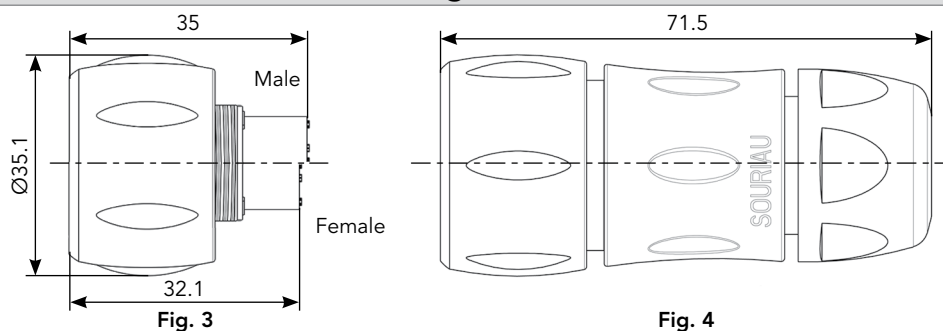
Square Flange Receptacle - UTS0



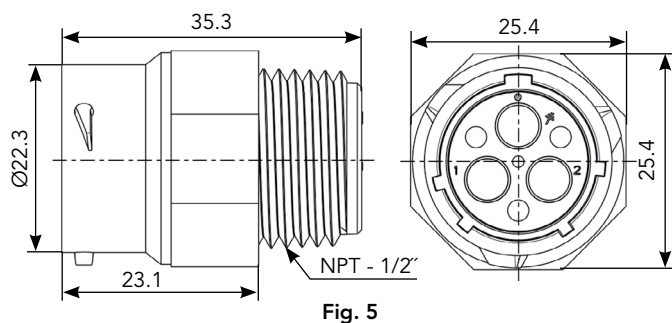
Jam Nut Receptacle - UTS7



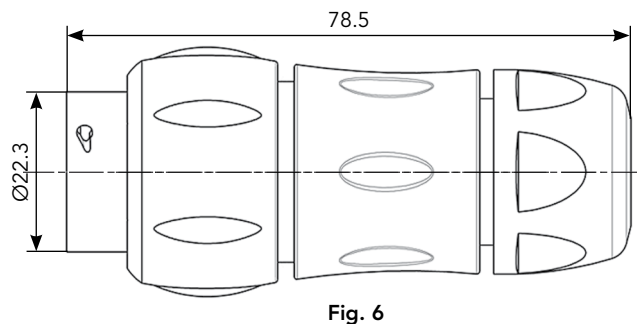
Plug - UTS6



NPT Threaded Receptacle - UTS7



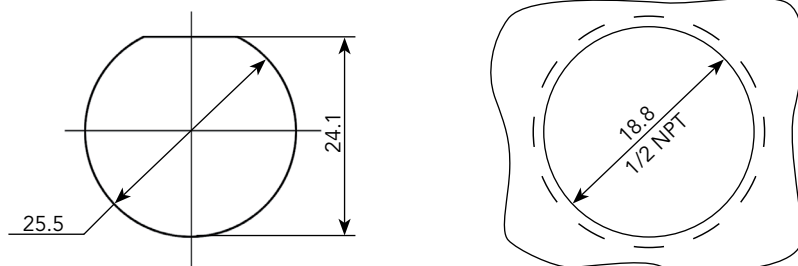
Free Hanging - UTS1



Panel Cut Out

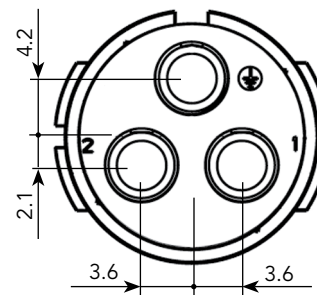
Jam Nut Receptacle - UTS7

NPT



Drilling Pattern

Hole size:
3.3mm



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

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

Accessories and Tooling

Jam Nut or NPT Threaded Receptacle Sealing Caps



IP68/69K

Part number

UTS14DCG



IP68/69K

Metal terminal

Part number

UTS14DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS614DCG

Plastic Protective Cap



Part numbers

Receptacle
cap

Plug cap

85005588A

85005597

Gasket



Part numbers

UTFD14B

Hand Tool



Part number

M317

Positioner + Locator Setting #8



Part number

VGE10078A

Extraction Tool #8



Part number

51060210936

Color Coding Rings

G for Green


Y for
Yellow


R for Red



Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

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

Contacts



#8	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	16	82913601A ⁽¹⁾	82913600A ⁽¹⁾	1.72 mm	6.5 mm
		14	82913603A ⁽¹⁾	82913602A ⁽¹⁾	2.22 mm	
		12	82913605A ⁽¹⁾	82913604A ⁽¹⁾	2.82 mm	
		10	82913607A ⁽¹⁾	82913606A ⁽¹⁾	3.50 mm	
		8	82913609A ⁽¹⁾	82913608A ⁽¹⁾	4.35 mm	
PCB	Machined ⁽²⁾	-	82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	-	-

(1): Example of plating, for other plating see page 164

(2): For dimensions see page 168

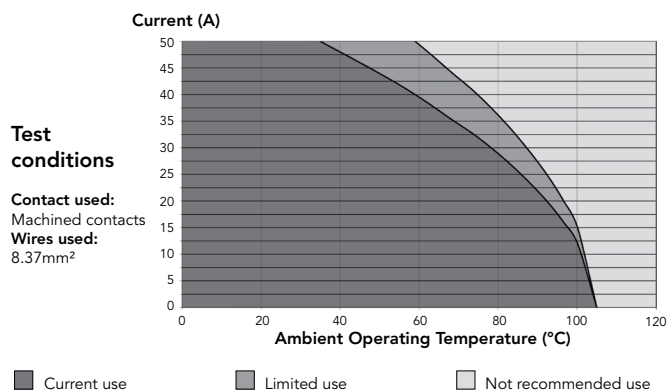
Electrical Characteristics

UL
44A 600V UL94 V-0

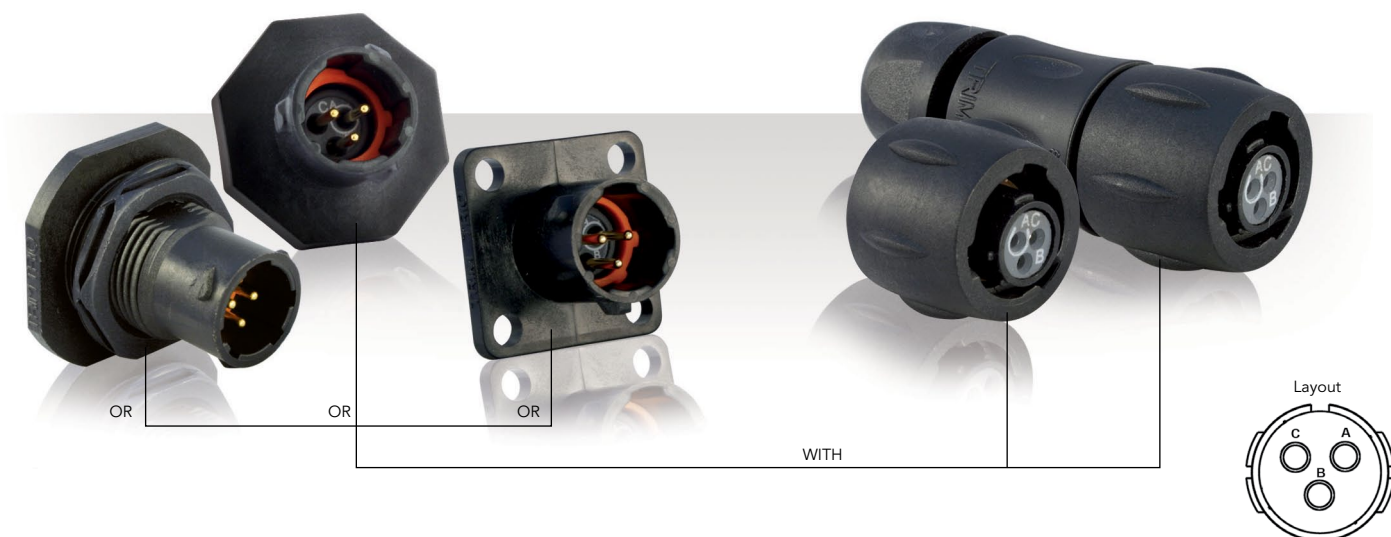
CSA
30A 600V UL94 V-0

IEC
40A 300V 4kV 3

UTS 142G1 Derating Curves



8E3/8D3 (Shell size 8, 3x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 39	Square flange receptacle	Without (Fig. 1)	UTS08E3P	UTS08E3S
	Plug	Without (Fig. 7)	UTS68E3P	UTS68E3S
		Cable gland (Fig. 8)	UTS6JC8E3P	UTS6JC8E3S
	Jam nut receptacle	Without (Fig. 4)	UTS78E3P	UTS78E3S
	M12 threaded receptacle	Without (Fig.3)	UTS78E3PM12	UTS78E3SM12
PCB contacts loaded see page 39	Square flange receptacle	Without (Fig. 2)	UTS08D3P	UTS08D3S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTS78D3P32	UTS78D3S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS78D3P	UTS78D3S
	M12 threaded receptacle	Without (Fig.3)	UTS78D3PM12	UTS78D3SM12

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

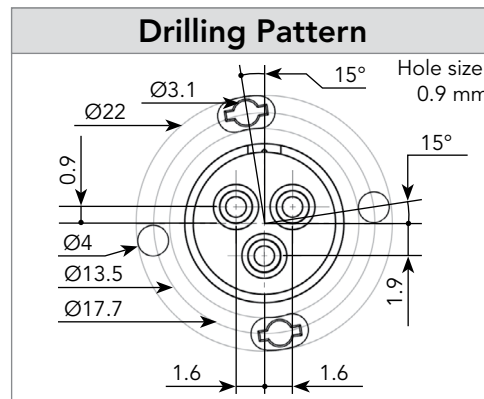
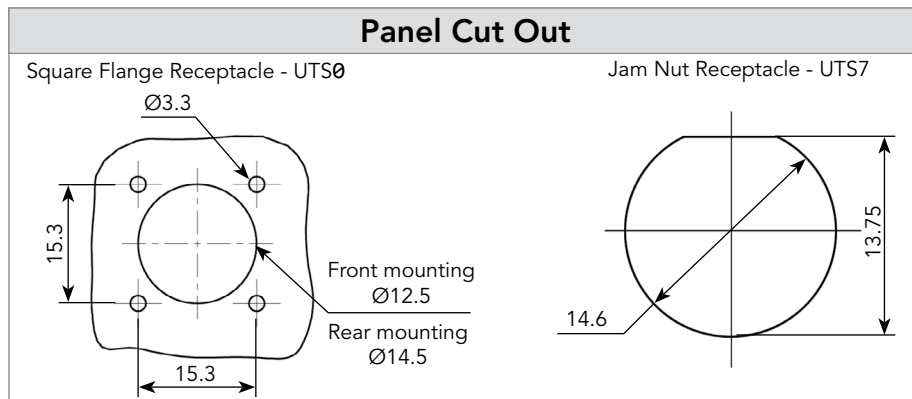
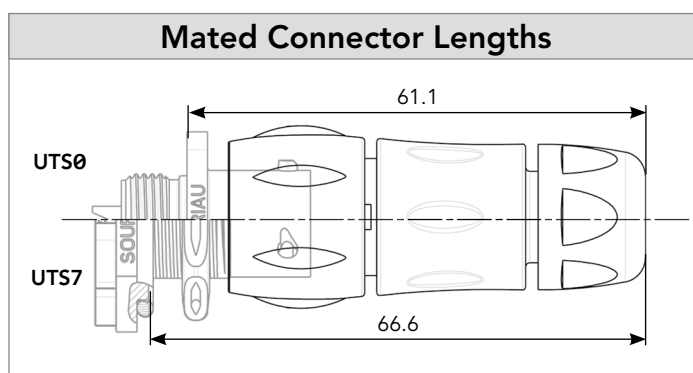
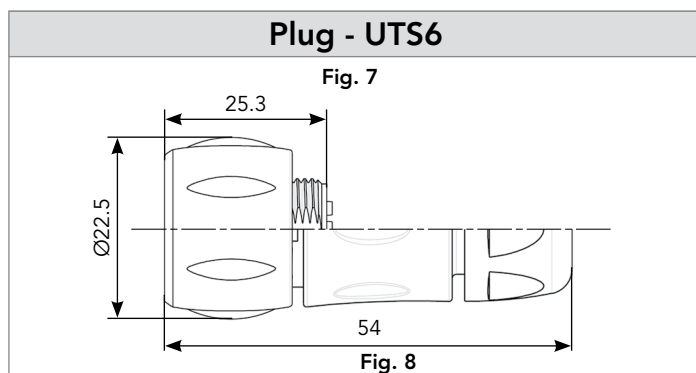
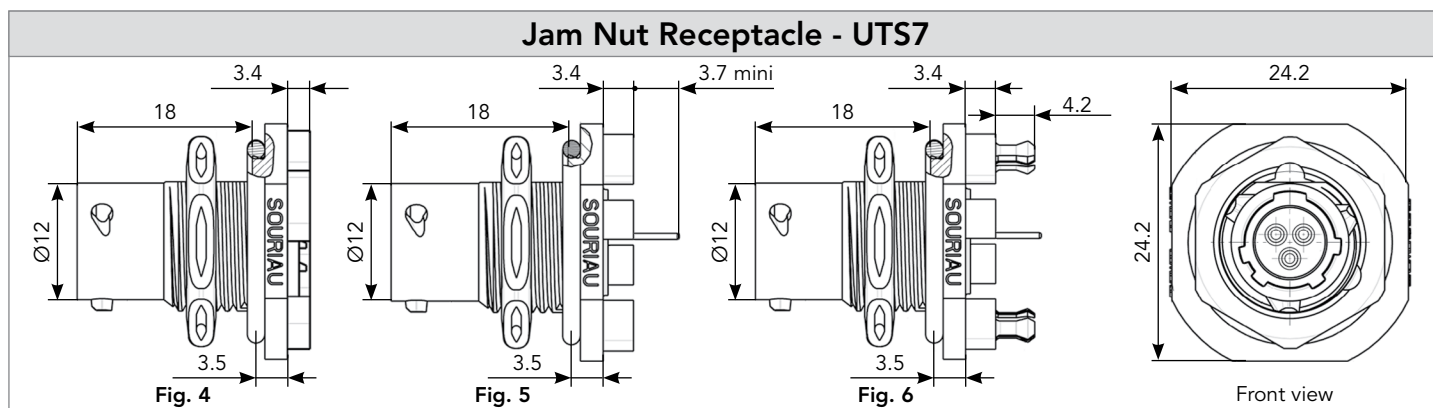
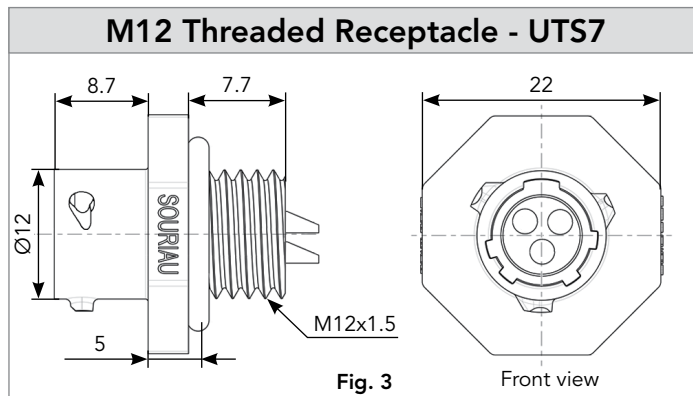
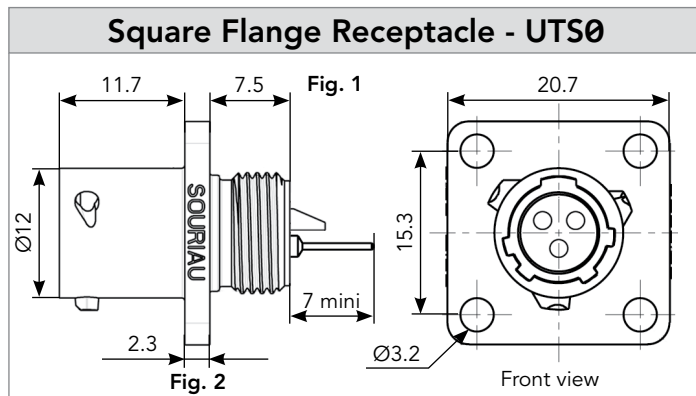
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V8E3PST100	HAUTS0V8E3SST100
Right angle ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V8E3PRA100	HAUTS0V8E3SRA100

(1) Other cable available on demand

* Other lengths available on demand

8E3/8D3 (Shell size 8, 3x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

8E3/8D3 (Shell size 8, 3x#20)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number

UTS8DCG



IP68/69K

Metal terminal

Part number

UTS8DCGR

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS8DCGE

Plug Protective Cap



IP40

Part number

UTS68C

Plastic Protective Cap



Part numbers

Receptacle
cap

85005585A

Plug cap

85005594

Gasket



Part numbers

UTFD11B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

UTS78CCRR

UTS78CCRY

UTS78CCRG

Plugs

UTS68CCRR

UTS68CCRY

UTS68CCRG

8E3/8D3 (Shell size 8, 3x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

3

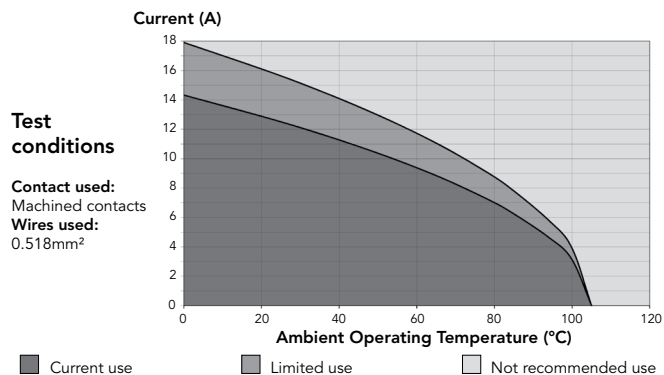
Electrical Characteristics

UL
7A 250V UL94 HB

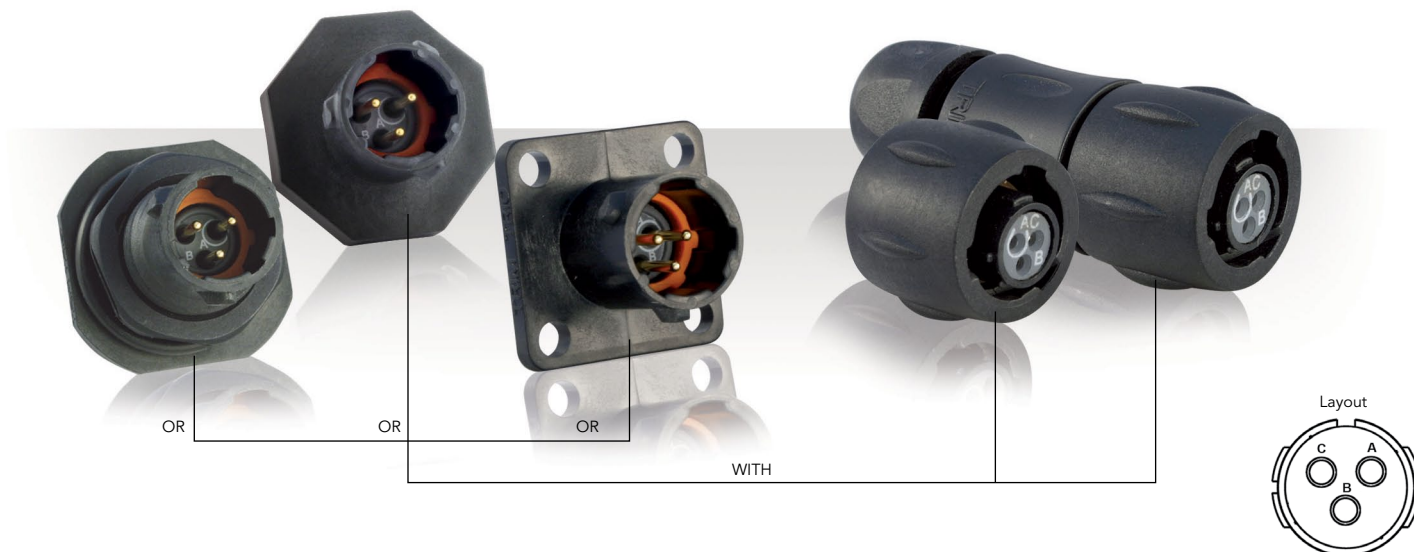
CSA
7A 250V UL94 HB

IEC
7A 32V 1.5kV 3

UTS 8E3/8D3 Derating Curves



8E3A/8E98 - 8D3A/8D98 (Shell size 8, 3x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 43	Square flange receptacle	Without (Fig. 1)	UTS08E3AP	UTS08E3AS
			UTS08E98P	UTS08E98S
	Plug	Without (Fig. 7)	UTS68E3AP	UTS68E3AS
			UTS68E98P	UTS68E98S
		Cable gland (Fig. 8)	UTS6JC8E3AP	UTS6JC8E3AS
			UTS6JC8E98P	UTS6JC8E98S
	Jam nut receptacle	Without (Fig. 4)	UTS78E3AP	UTS78E3AS
			UTS78E98P	UTS78E98S
	M12 threaded receptacle	Without (Fig. 3)	UTS78E3APM12	UTS78E3ASM12
			UTS78E98PM12	UTS78E98SM12
PCB contacts loaded see page 43	Square flange receptacle	Without (Fig. 2)	UTS08D3AP	UTS08D3AS
			UTS08D98P	UTS08D98S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTS78D3AP32	UTS78D3AS32
			UTS78D98P32	UTS78D98S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS78D3AP	UTS78D3AS
			UTS78D98P	UTS78D98S
	M12 threaded receptacle	Without (Fig. 3)	UTS78D3APM12	UTS78D3ASM12
			UTS78D98PM12	UTS78D98SM12

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

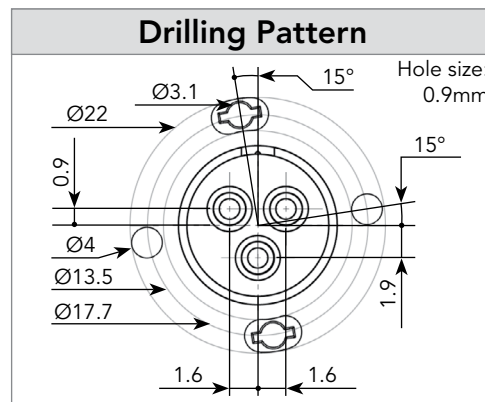
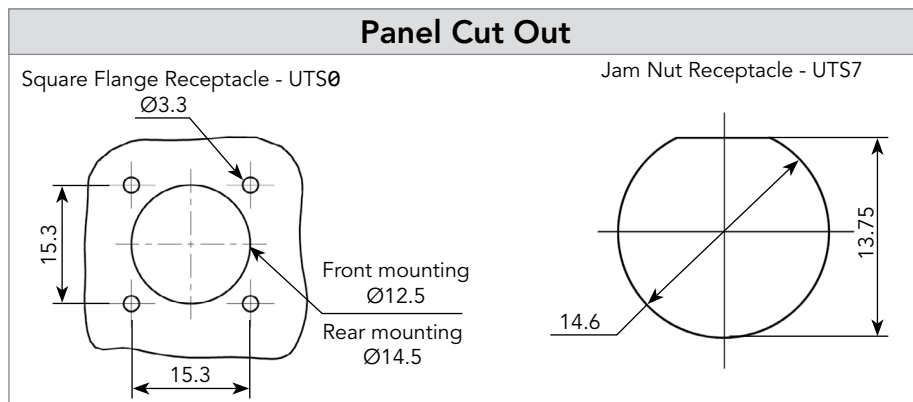
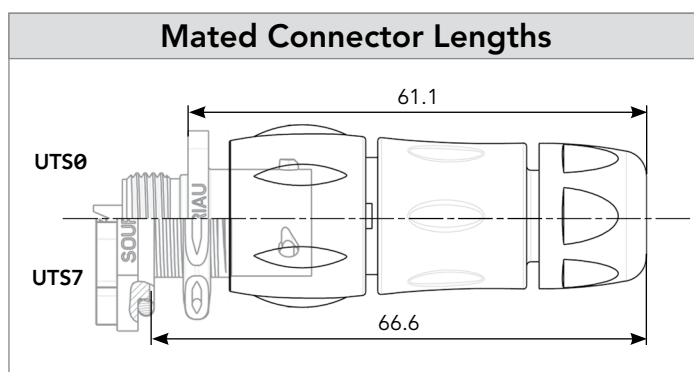
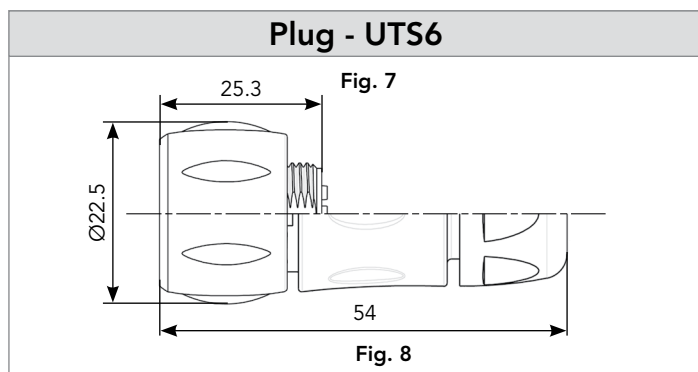
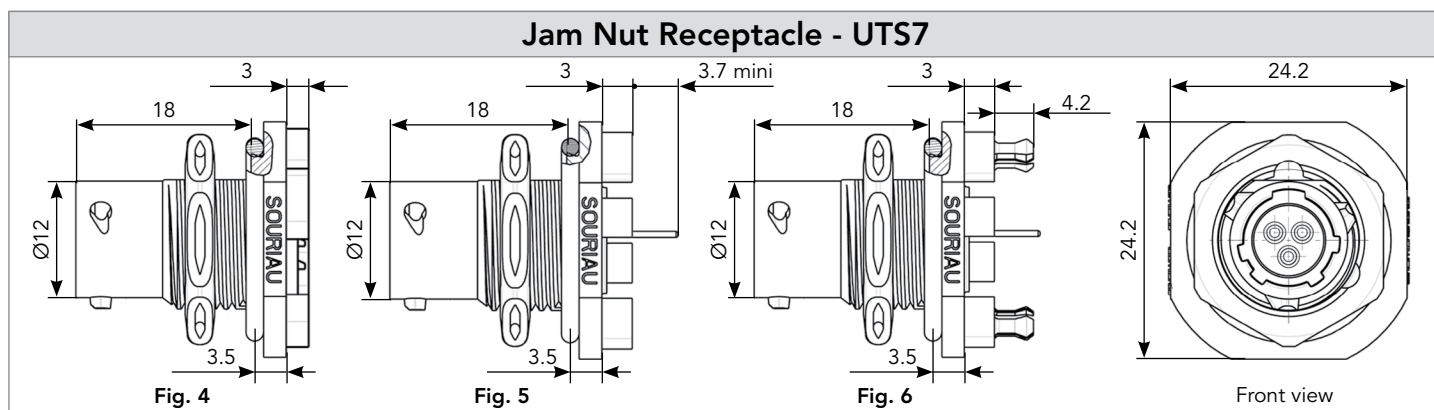
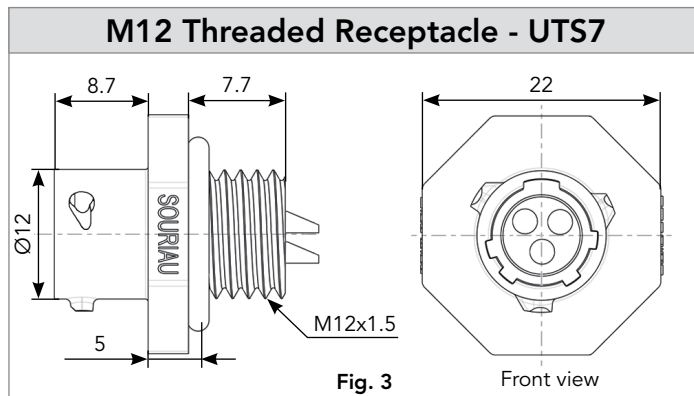
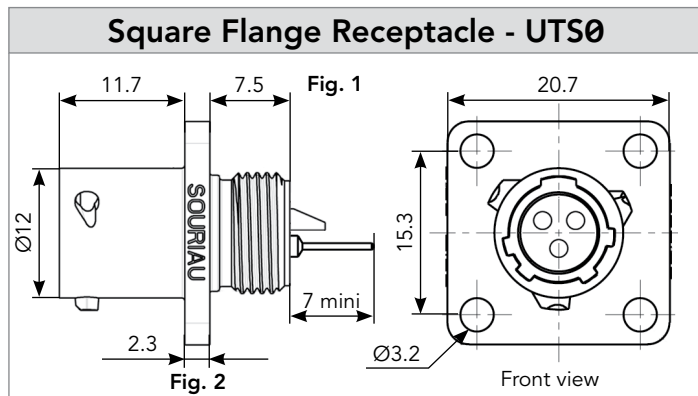
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V8E3APST100	HAUTS0V8E3ASST100
Right angle ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V8E3APRA100	HAUTS0V8E3ASRA100

(1) Other cable available on demand

* Other lengths available on demand

8E3A/8E98 - 8D3A/8D98 (Shell size 8, 3x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

8E3A/8E98 - 8D3A/8D98 (Shell size 8, 3x#20)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number

UTS8DCG



IP68/69K

Metal terminal

Part number

UTS8DCGR

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS8DCGE

Plug Protective Cap



IP40

Part number

UTS68C

Plastic Protective Cap



Part numbers

Receptacle
cap

85005585A

Plug cap

85005594

Gasket



Part numbers

UTFD11B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

UTS78CCRR

UTS78CCRY

UTS78CCRG

Plugs

UTS68CCRR

UTS68CCRY

UTS68CCRG

8E3A/8E98 - 8D3A/8D98 (Shell size 8, 3x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Hand solder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

3

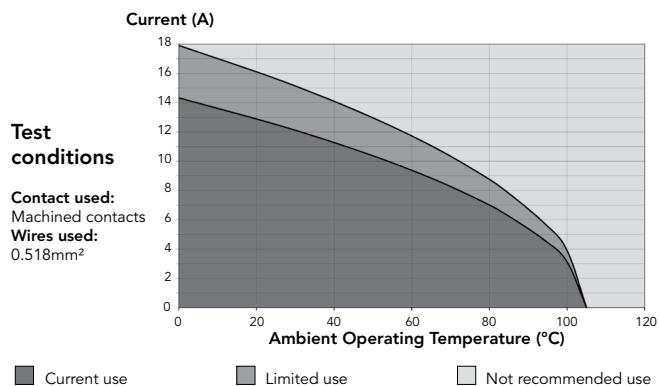
Electrical Characteristics

UL
7A 250V UL94 HB

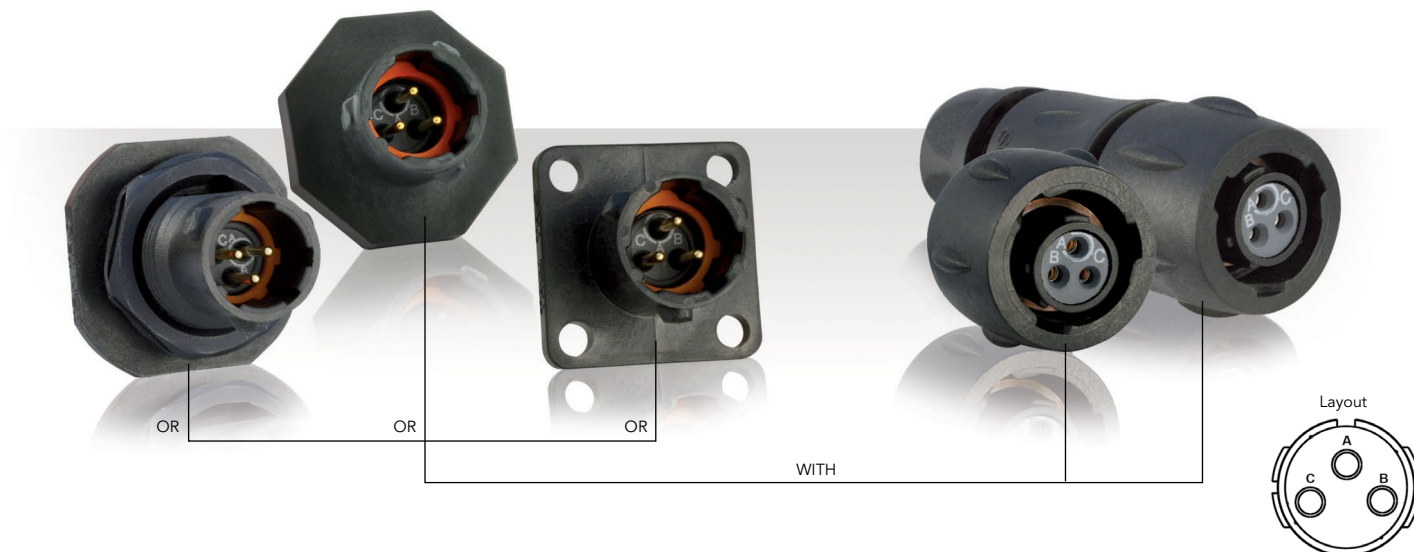
CSA
7A 250V UL94 HB

IEC
7A 50V 1.5kV 3

UTS 8E3A/98 - 8D3A/98 Derating Curves



8E33/8D33 (Shell size 8, 3x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Handsolder electrical contacts loaded see page 47	Square flange receptacle	Without (Fig. 1)	UTS08E33P	UTS08E33S
	Plug	Without (Fig. 7)	UTS68E33P	UTS68E33S
		Cable gland (Fig. 8)	UTS6JC8E33P	UTS6JC8E33S
	Jam nut receptacle	Without (Fig. 4)	UTS78E33P	UTS78E33S
PCB contacts loaded see page 47	M12 threaded receptacle	Without (Fig. 3)	UTS78E33PM12	UTS78E33SM12
	Square flange receptacle	Without (Fig. 2)	UTS08D33P	UTS08D33S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTS78D33P32	UTS78D33S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS78D33P	UTS78D33S
	M12 threaded receptacle	Without (Fig. 3)	UTS78D33PM12	UTS78D33SM12

Possibilities of discrimination/keying methods see page 208

Sealed unmatd

Overmoulded Cable Assembly Part Numbers

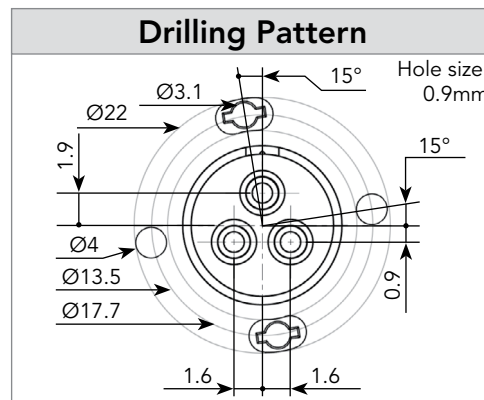
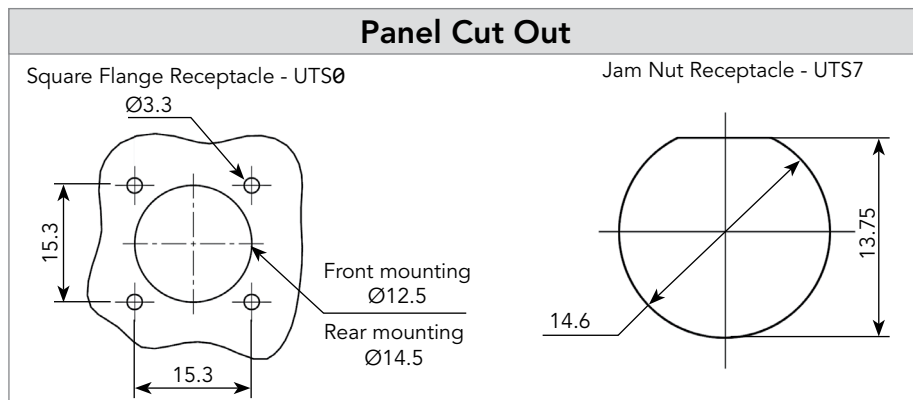
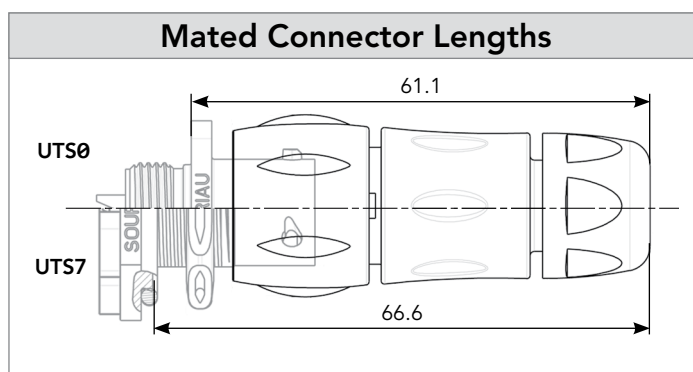
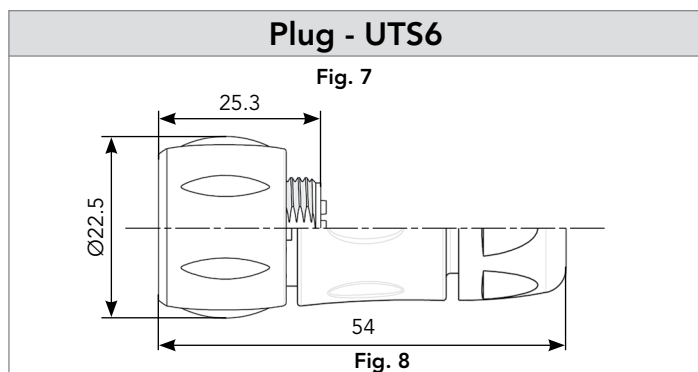
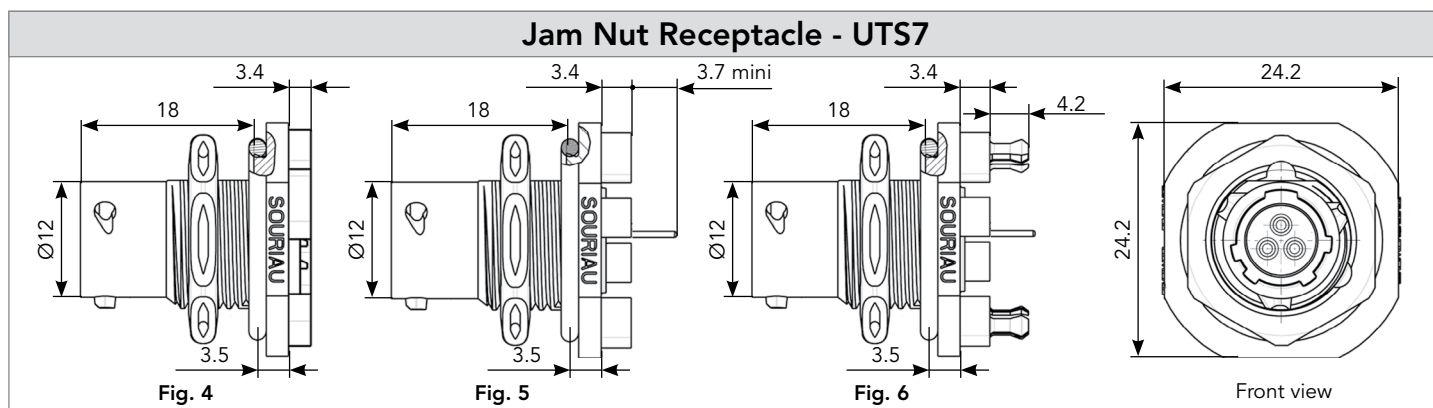
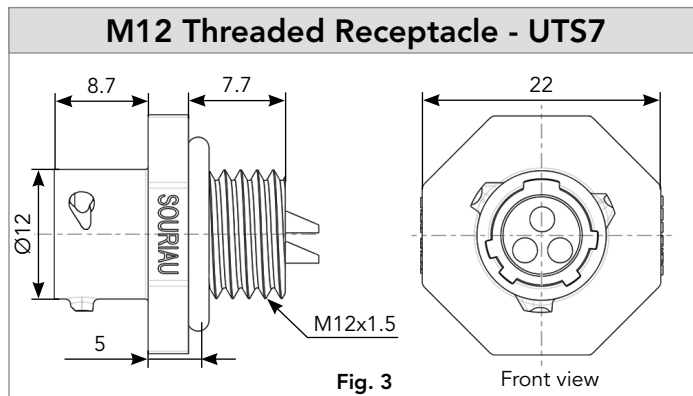
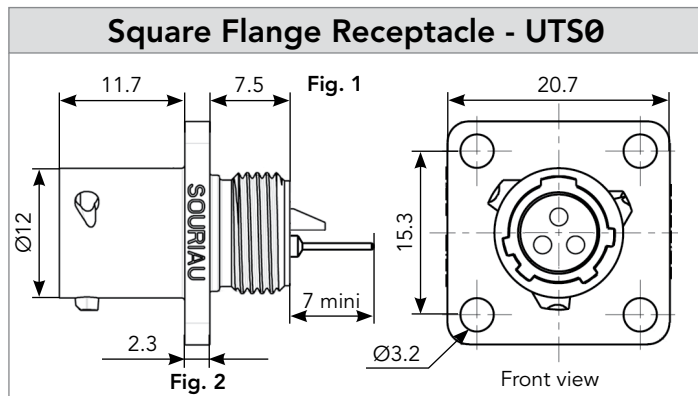
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V8E33APST100	HAUTS0V8E33ASST100
Right angle ending	Plug	0.5	H05 VV - F 3x0.5	HAUTS0V8E33APRA100	HAUTS0V8E33ASRA100

(1) Other cable available on demand

* Other lengths available on demand

8E33/8D33 (Shell size 8, 3x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

8E33/8D33 (Shell size 8, 3x#20)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number

UTS8DCG



IP68/69K

Metal terminal

Part number

UTS8DCGR

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS8DCGE

Plug Protective Cap



IP40

Part number

UTS68C

Plastic Protective Cap



Part numbers

Receptacle
cap

85005585A

Plug cap

85005594

Gasket



Part numbers

UTFD11B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

UTS78CCRR

UTS78CCRY

UTS78CCRG

Plugs

UTS68CCRR

UTS68CCRY

UTS68CCRG

8E33/8D33 (Shell size 8, 3x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

3

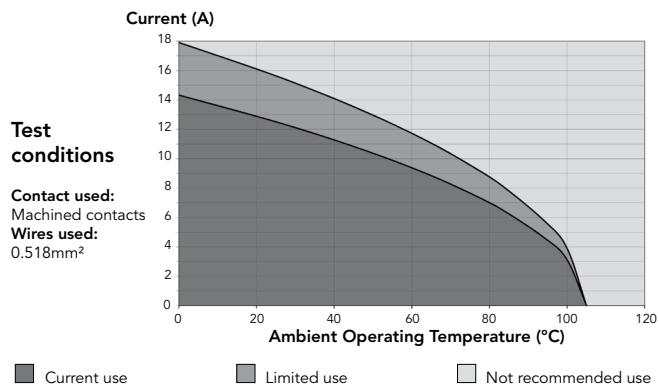
Electrical Characteristics

UL
7A 250V UL94 HB

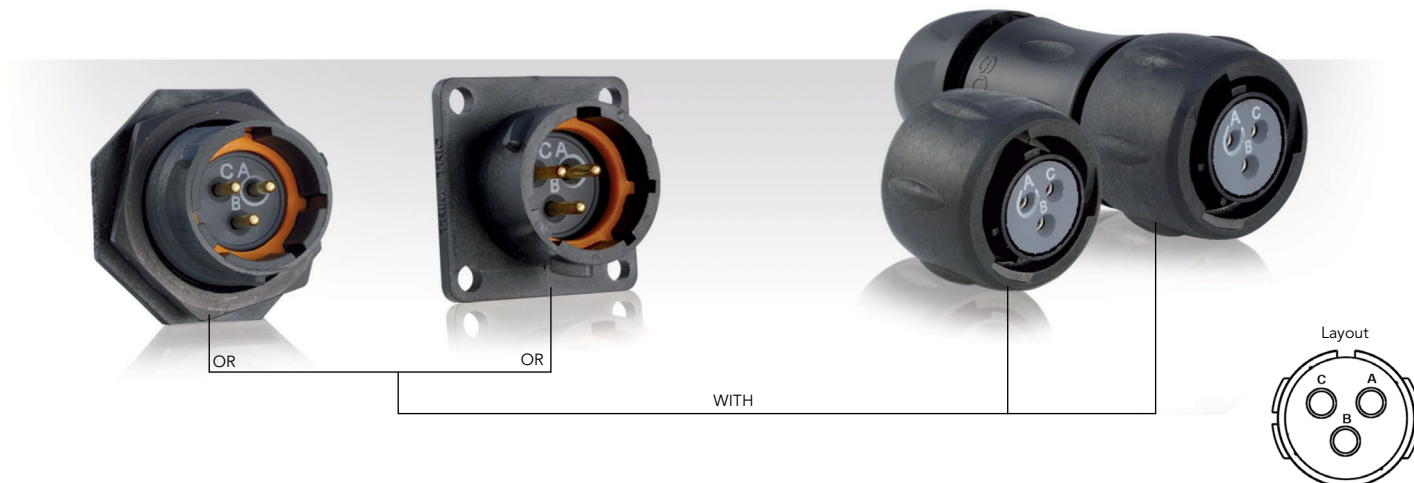
CSA
7A 250V UL94 HB

IEC
7A 50V 1.5kV 3

UTS 8E33/8D33 de-rating curves



12E3/12D3 (Shell size 12, 3x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 51	Square flange receptacle	Without (Fig. 6)	UTS012E3P	UTS012E3S
	Plug	Without (Fig. 1)	UTS612E3P	UTS612E3S
		Cable gland (Fig. 2)	UTS6JC12E3P	UTS6JC12E3S
	Jam nut receptacle	Without (Fig. 3)	UTS712E3P	UTS712E3S
PCB contacts loaded see page 51	Square flange receptacle	Without (Fig. 7)	UTS012D3P	UTS012D3S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 5)	UTS712D3P32	UTS712D3S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 4)	UTS712D3P	UTS712D3S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 3x1.5	HAUTS0V12E3PST100	HAUTS0V12E3SST100
Right angle ending	Plug	1.5	H05 VV - F 3x1.5	HAUTS0V12E3PRA100	HAUTS0V12E3SRA100

(1) Other cable available on demand

* Other lengths available on demand

12E3/12D3 (Shell size 12, 3x#16)

Dimensions

Plug - UTS6

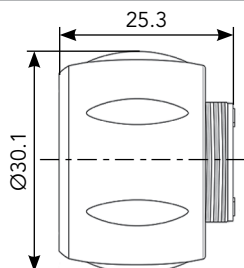


Fig. 1

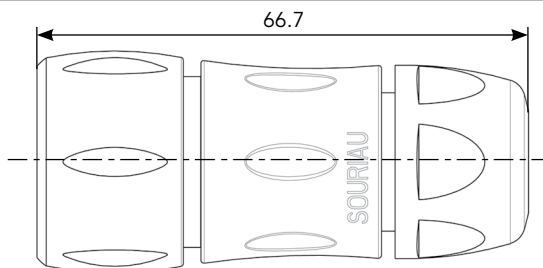


Fig. 2

Jam Nut Receptacle - UTS7

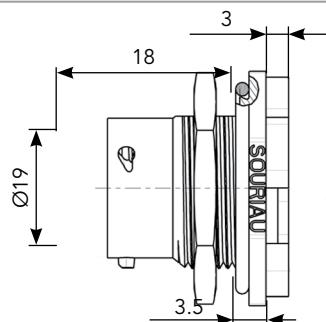


Fig. 3

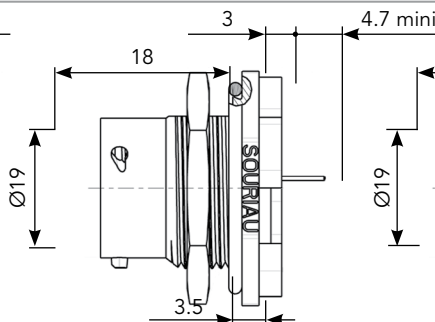


Fig. 4

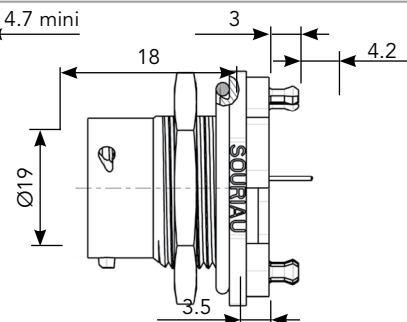
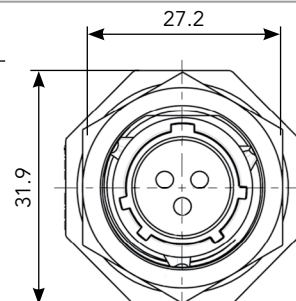


Fig. 5



Front view

Square Flange Receptacle - UTS0

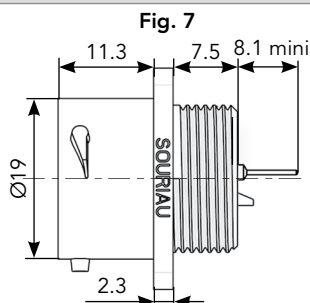
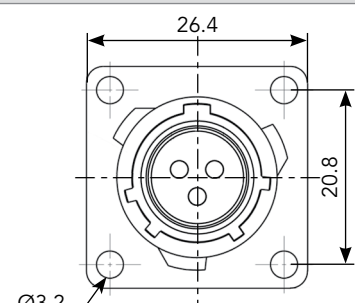
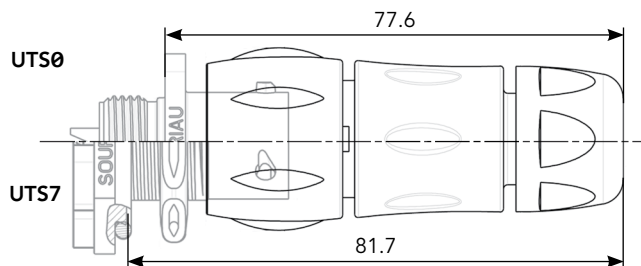


Fig. 6



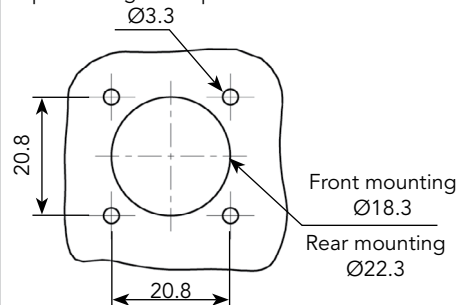
Front view

Mated Connector Lengths

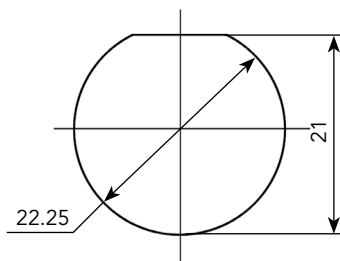


Panel Cut Out

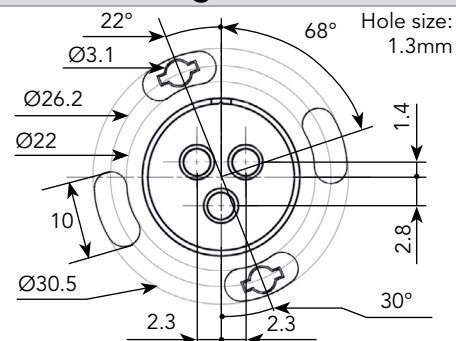
Square Flange Receptacle - UTS0



Jam Nut Receptacle - UTS7



Drilling Pattern



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

12E3/12D3 (Shell size 12, 3x#16)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number

UTS12DCG



IP68/69K

Metal terminal

Part number

UTS12DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS612DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS12DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005587A

Plug cap

85005596

Gasket



Part numbers

UTFD13B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS712CCRR

UTS612CCRR

UTS712CCRY

UTS612CCRY

UTS712CCRG

UTS612CCRG

12E3/12D3 (Shell size 12, 3x#16)

Contacts

#16	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 to 14	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

3

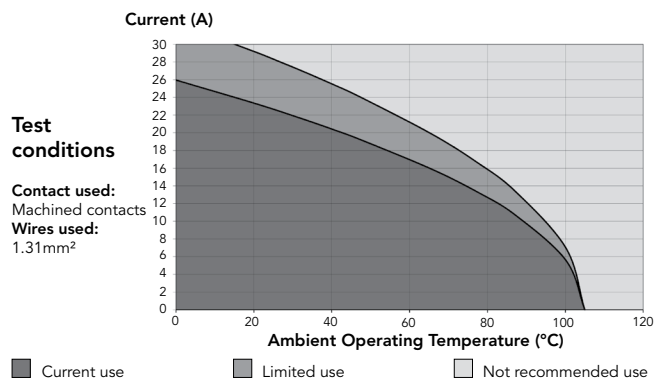
Electrical Characteristics

UL
13A 600V UL94 HB

CSA
13A 600V UL94 HB

IEC
16A 150V 2.5kV 3

UTS 12E3/12D3 Derating Curves



124 - 12E4/12D4 (Shell size 12, 3 + ground, 4x#16)



Connector Part Numbers

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

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 4x1.5	HAUTS0V124PST100	HAUTS0V124SST100
				HAUTS0V12E4PST100	HAUTS0V12E4SST100
Right angle ending	Plug	1.5	H05 VV - F 4x1.5	HAUTS0V124PRA100	HAUTS0V124SRA100
				HAUTS0V12E4PRA100	HAUTS0V12E4SRA100

(1) Other cable available on demand

* Other lengths available on demand

Dimensions

[illegible]

A diagram showing a circular cross-section of a pipe with a rectangular slot cut out of the top. The total height of the pipe is labeled as 21. A dimension line indicates the radius of the pipe is 22.25. The slot is rectangular, and the remaining shape is a circular segment.

Note: all dimensions are in mm

124 - 12E4/12D4 (Shell size 12, 3 + ground, 4x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS12DCG



IP68/69K

Metal terminal

Part number
UTS12DCGR

Handle (without Head)



Part number
SHANGLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS612DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS12DCGE

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005587A	85005596

Gasket



Part numbers

UTFD13B

Color Coding Rings

G for Green



Y for Yellow

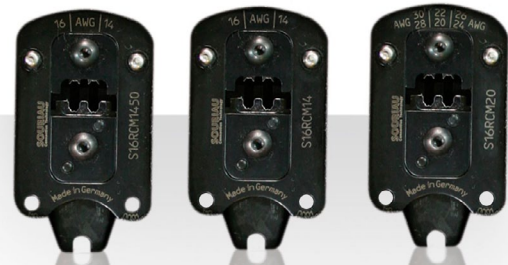


R for Red

Part numbers

Receptacles	Plugs
UTS712CCRR	UTS612CCRR
UTS712CCRY	UTS612CCRY
UTS712CCRG	UTS612CCRG

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yolk090		
RM/RC DX60xxD28		

⁽¹⁾: Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANGLES



Handle

+



Head

=



Complete set

124 - 12E4/12D4 (Shell size 12, 3 + ground, 4x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-
Hand-solder	Loaded in the connector	14-18	-	-		

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: **SM20ML1TK6** (3): For dimensions see page 168 Note: all dimensions are in mm

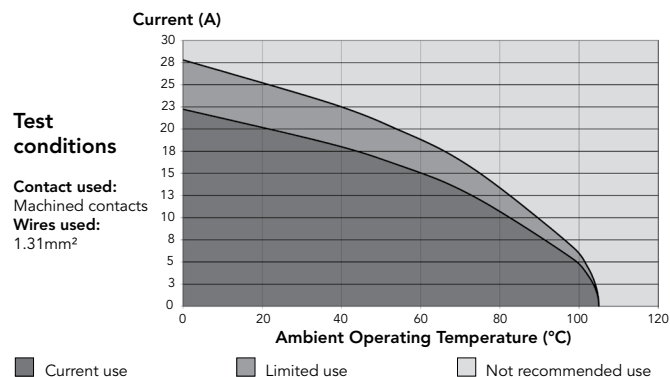
Electrical Characteristics

UL
10A 500V UL94 V-0

CSA
7A 500V UL94 V-0

IEC
16A 300V 4kV 3
Temperature elevation: 50°C

UTS 124 - 12E4/12D4 Derating Curves



183G1 (Shell size 18, 3 + ground, 4x#8)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 59	NPT threaded receptacle	Without (Fig. 1)	-	UTS7183G1SNPT
	Plug	Without (Fig. 2)	UTS6183G1P	-
	Plug	Cable gland (Fig. 3)	UTS6JC183G1P	-
PCB contacts supplied separately see page 59	NPT threaded receptacle	Without (Fig. 1)	-	UTS7183G1SNPT
	Plug	Without (Fig. 2)	UTS6183G1P	-

183G1 (Shell size 18, 3 + ground, 4x#8)

Dimensions

NPT Threaded Receptacle - UTS7

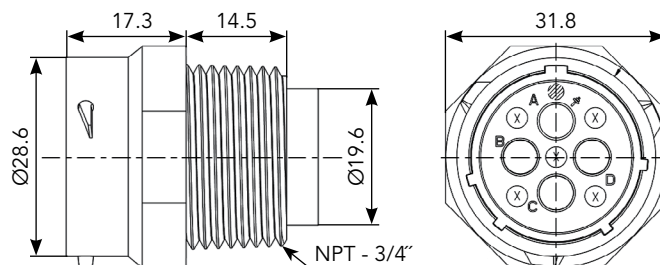


Fig. 1

Plug - UTS6

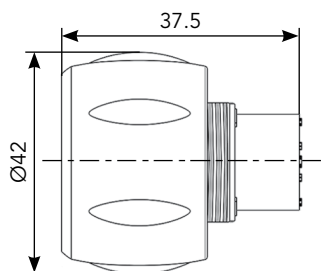


Fig. 2

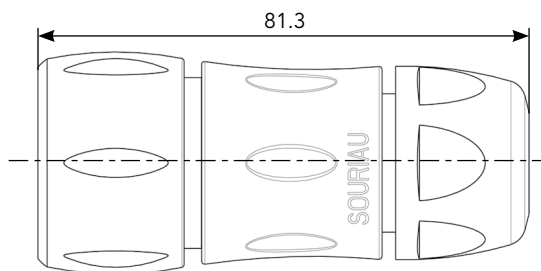
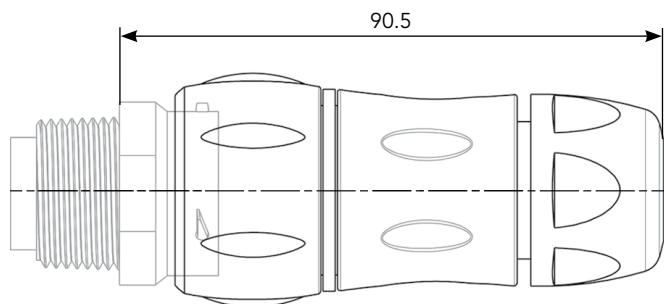
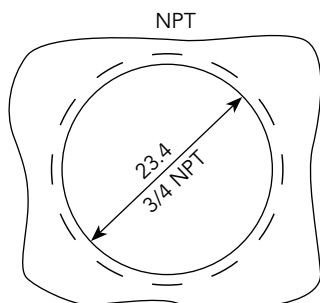


Fig. 3

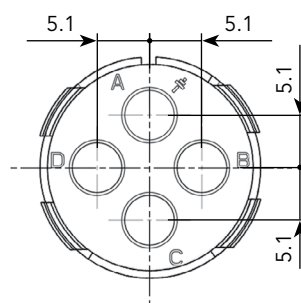
Mated Connector Length - UTS6JC



Panel cut



Drilling Pattern



Note: all dimensions are in mm

183G1 (Shell size 18, 3 + ground, 4x#8)

Accessories and Tooling

Jam Nut or NPT Threaded Receptacle Sealing Caps



IP68/69K

Part number

UTS18DCG



IP68/69K

Metal terminal

Part number

UTS18DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS618DCG

Plastic Protective Cap



Part numbers

Receptacle
cap

Plug cap

85005590A

85005599

Gasket



Part numbers

UTFD16B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS718CCRR

UTS618CCRR

UTS718CCRY

UTS618CCRY

UTS718CCRG

UTS618CCRG

Hand Tool



Part number

M317

Positioner + Locator Setting #8



Part number

VGE10078A

Extraction Tool #8



Part number

51060210936

183G1 (Shell size 18, 3 + ground, 4x#8)

Contacts

#8	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	16	82913601A ⁽¹⁾	82913600A ⁽¹⁾	1.72 mm	6.5 mm
		14	82913603A ⁽¹⁾	82913602A ⁽¹⁾	2.22 mm	
		12	82913605A ⁽¹⁾	82913604A ⁽¹⁾	2.82 mm	
		10	82913607A ⁽¹⁾	82913606A ⁽¹⁾	3.50 mm	
		8	82913609A ⁽¹⁾	82913608A ⁽¹⁾	4.35 mm	
PCB	Machined ⁽²⁾	-	82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	-	-

(1): Example of plating, for other plating see page 164

(2): For dimensions see page 168

3 +
⏏

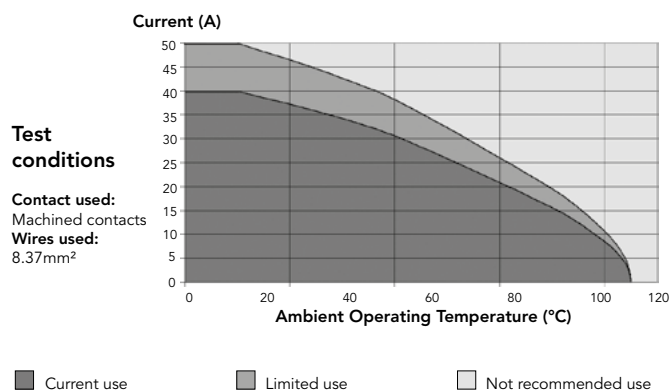
Electrical Characteristics

UL
44A 600V UL94 V-0

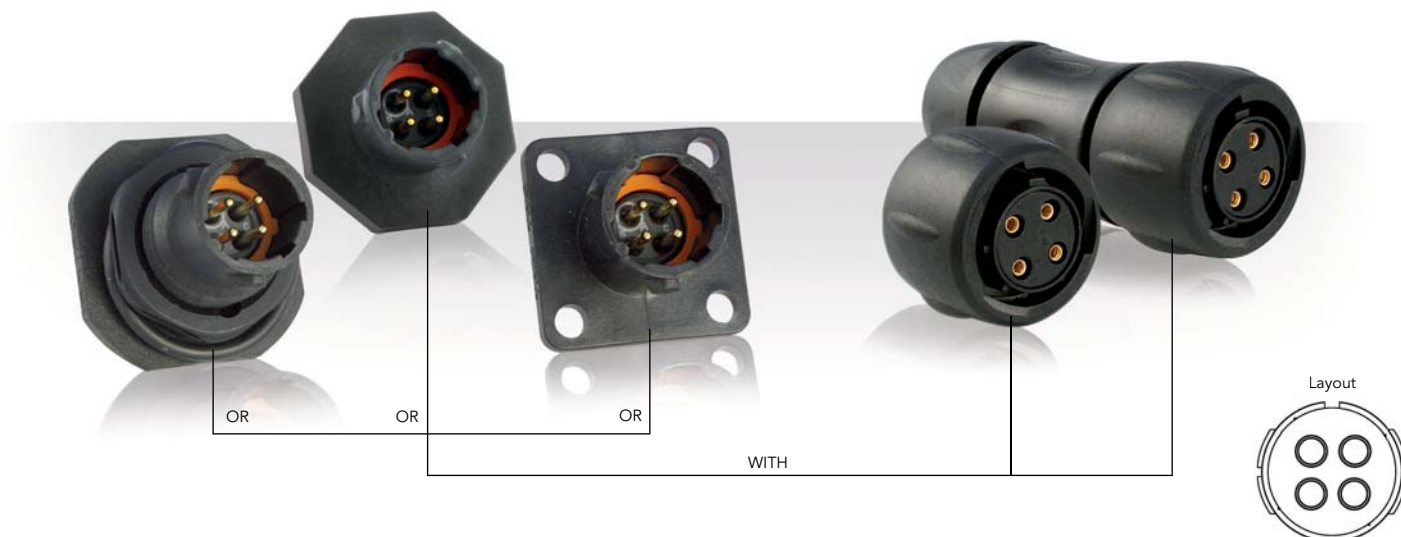
CSA
26A 600V UL94 V-0

IEC
32A 300V 4kV 3

UTS 183G1 Derating Curves



8E4/8D4 (Shell size 8, 4x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 63	Square flange receptacle	Without (Fig. 1)	UTS08E4P	UTS08E4S
	Plug	Without (Fig. 7)	UTS68E4P	UTS68E4S
		Cable gland (Fig. 8)	UTS6JC8E4P	UTS6JC8E4S
	Jam nut receptacle	Without (Fig. 4)	UTS78E4P	UTS78E4S
	M12 threaded receptacle	Without (Fig. 3)	UTS78E4PM12	UTS78E4SM12
PCB contacts loaded see page 63	Square flange receptacle	Without (Fig. 2)	UTS08D4P	UTS08D4S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTS78D4P32	UTS78D4S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS78D4P	UTS78D4S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 4x1.5	HAUTS0V8E4PST100	HAUTS0V8E4SST100
Right angle ending	Plug	1.5	H05 VV - F 4x1.5	HAUTS0V8E4PRA100	HAUTS0V8E4SRA100

(1) Other cable available on demand

* Other lengths available on demand

8E4/8D4 (Shell size 8, 4x#20)

Accessories

Jam Nut Sealing Caps



IP68/69K

Part number
UTS8DCG



IP68/69K Metal terminal

Part number
UTS8DCGR

Square Flange Sealing Cap



IP68/69K 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
UTFD11B

Color Coding Rings

G for Green

Y for Yellow

R for Red



Part numbers	
Receptacles	Plugs
UTS78CCRR	UTS68CCRR
UTS78CCRY	UTS68CCRY
UTS78CCRG	UTS68CCRG

8E4/8D4 (Shell size 8, 4x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Hand solder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

4

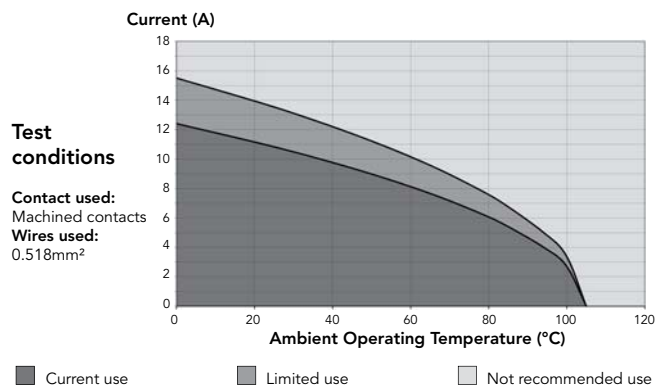
Electrical Characteristics

UL
7A 250V UL94 HB

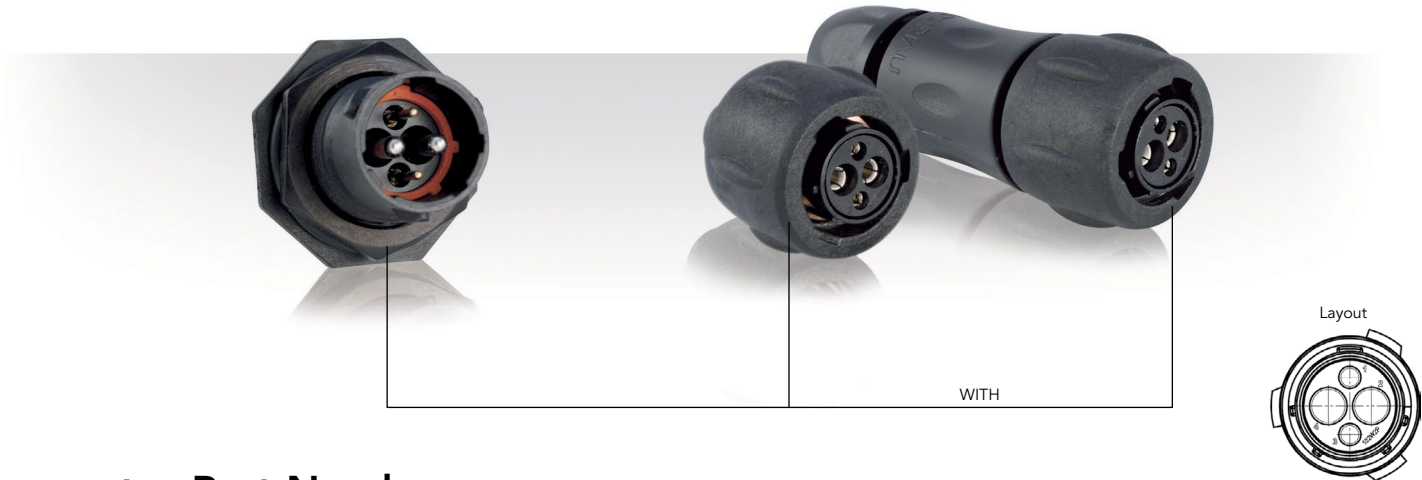
CSA
7A 250V UL94 HB

IEC
7A 32V 1.5kV 3

UTS 8E4/8D4 Derating Curves



102W2 (Shell size 10, 2x#20, 2x12)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 67	Free hanging receptacle	Cable gland (Fig. 1)	UTS1JC102W2P	UTS1JC102W2S
	Plug	Without (Fig. 2)	UTS6102W2P	UTS6102W2S
	Plug	Cable gland (Fig. 3)	UTS6JC102W2P	UTS6JC102W2S
	Jam nut receptacle	Without (Fig. 4)	UTS7102W2P	UTS7102W2S

102W2 (Shell size 10, 2x#20, 2x12)

Dimensions

Free Hanging - UTS1

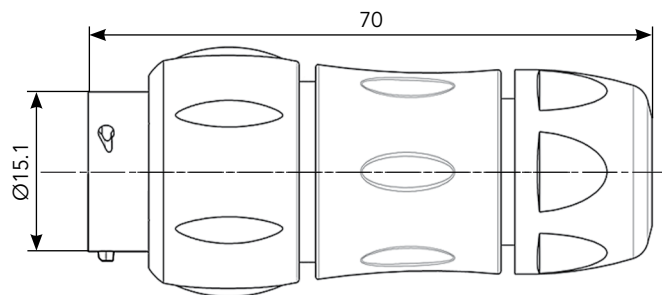


Fig. 1

Plug - UTS6

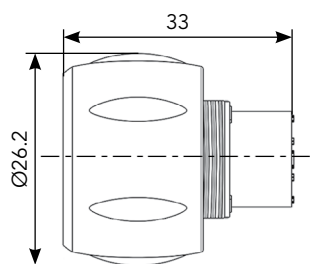


Fig. 2 Male

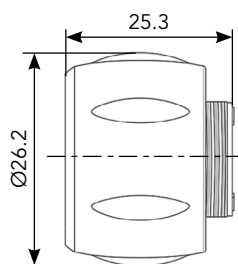


Fig. 2 Female

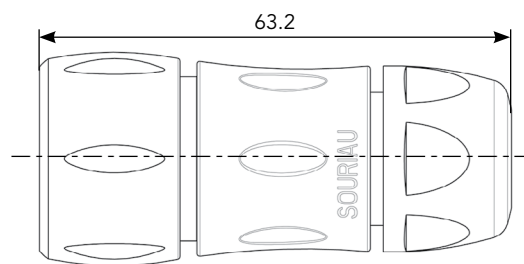


Fig. 3

Jam Nut Receptacle - UTS7

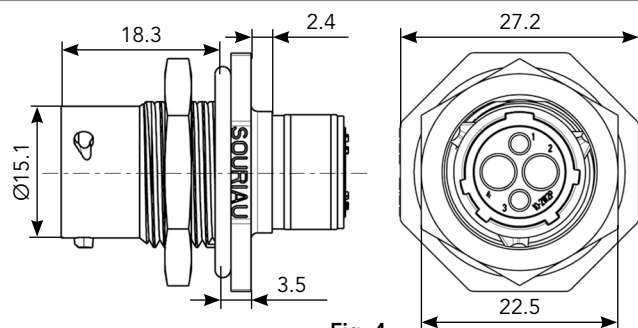
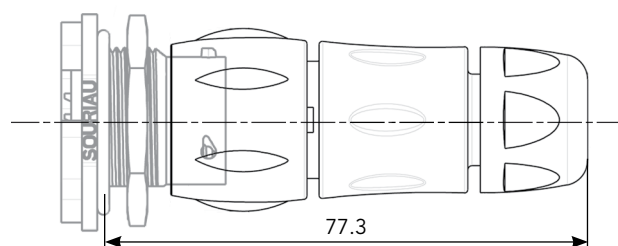


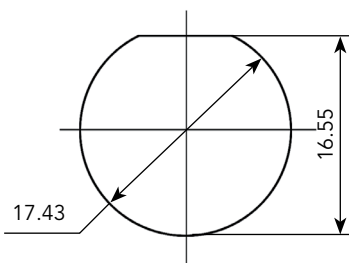
Fig. 4

Mated Connector Length - UTS7

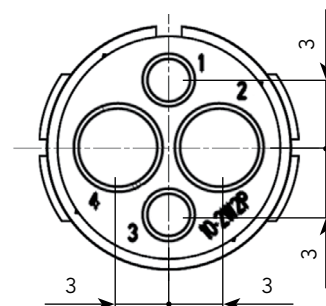


Panel Cut Out

Jam Nut Receptacle - UTS7



Drilling Pattern



Note: all dimensions are in mm

102W2 (Shell size 10, 2x#20, 2x12)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS10DCG



IP68/69K

Metal terminal

Part number
UTS10DCGR

Plug Sealing Cap



IP68/69K

Part number
UTS610DCG

Extraction Tool #20



Part number
RX20D44

Plastic Protective Cap



Part numbers

Receptacle
cap

Plug cap

85005586A

85005595

Gasket



Part numbers

UTFD12B

Color Coding Rings

G for Green


Y for
Yellow


R for Red

Part numbers

Receptacles

Plugs

UTS710CCRR

UTS610CCRR

UTS710CCRY

UTS610CCRY

UTS710CCRG

UTS610CCRG

Crimp Tooling #20



Part number
SHANDLES



Part number
TOOLKIT



Contacts

Contact size

Part number
of head

RM/RC 24W3K⁽¹⁾

RM/RC 20W3K⁽¹⁾

RM/RC 18W3K⁽¹⁾

SM/SC 24WL3⁽¹⁾⁽²⁾

SM/SC 20WL3⁽¹⁾⁽²⁾

Standard contacts

#20

Ø 1mm

S20RCM*

S20RCM*

S20RCM*

S20SCM20*

S20SCM20*

(1): Example of plating, for other plating options see page 156

(2): loose contact

* Heads to be used with handle PN: SHANDLES



Handle



Head



Complete set

Crimp Tooling #12



Part number hand tool

M317


Part number
positioner + locator setting

VGE10078A

Extraction Tool #12


Part number
extraction tool

51060210924

102W2 (Shell size 10, 2x#20, 2x12)

Contacts

#20	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	26-24	RM24W3K	RC24W3K	0.80	1.60
		22-20	RM20W3K	RC20W3K	1.15	1.60
		20-18	RM18W3K	RC18W3K	1.30	2.10
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		26-24	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		22-20	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	-	1.20-2.10
#12						
Crimp	Machined	22	82911457NA	82911456A	0.87	4.90
		20	82911459NA	82911458A	1.12	
		18	82911461NA	82911460A	1.42	
		16	82911463NA	82911462A	1.72	
		14	82911465NA	82911464A	2.22	
		12	82911467NA	82911466A	2.82	

(1): Example of plating, for other plating see page 164

(2): Loose piece contact available if putting L. Example: SM20WL3TK6

Note: all dimensions are in mm

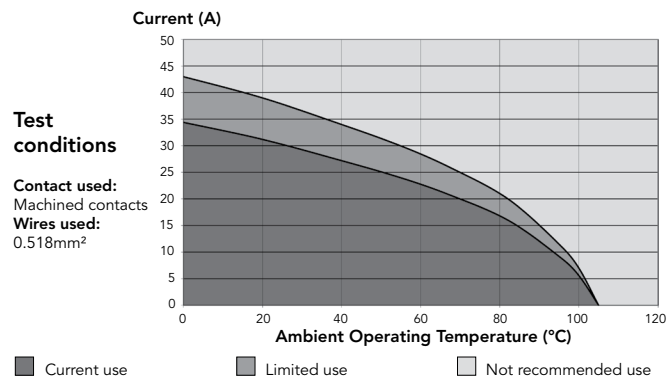
Electrical Characteristics

UL
20A 500V UL94 V-0

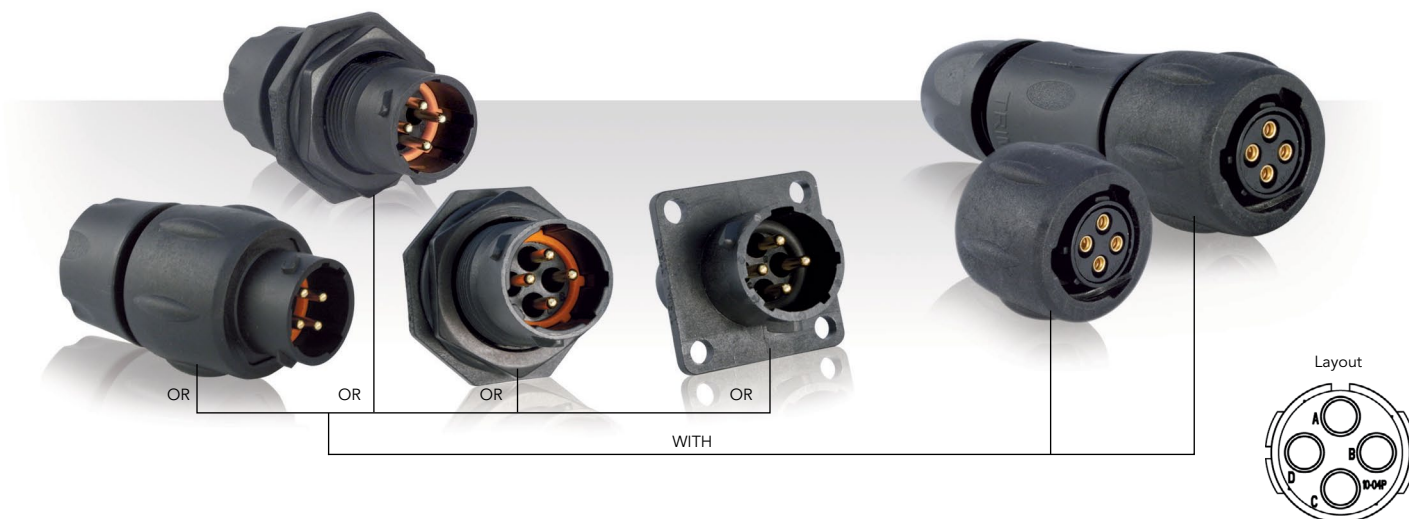
CSA
18A 500V UL94 V-0

IEC
25A 150V 2.5kV 3
Temperature elevation: 50°C

UTS 102W2 Derating Curves



104 (Shell size 10, 4x#16)



Connector Part Numbers

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

Possibilities of discrimination/keying methods see page 208

Overmoulded Cable Assembly Part Numbers

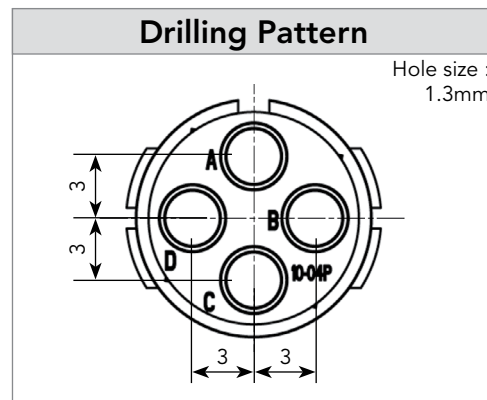
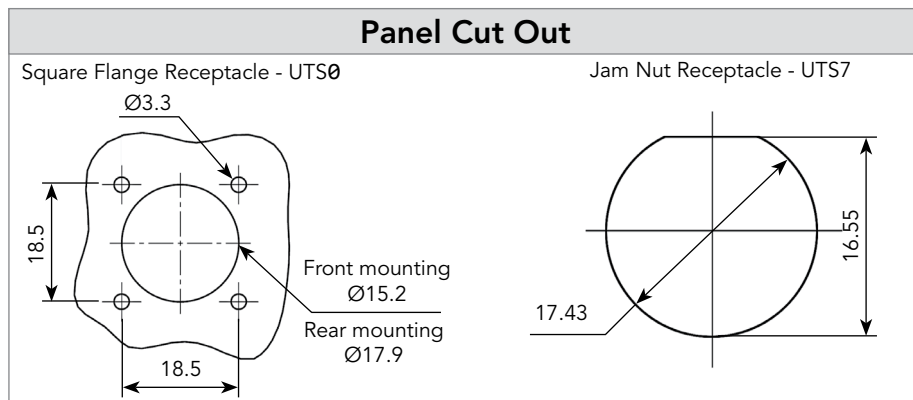
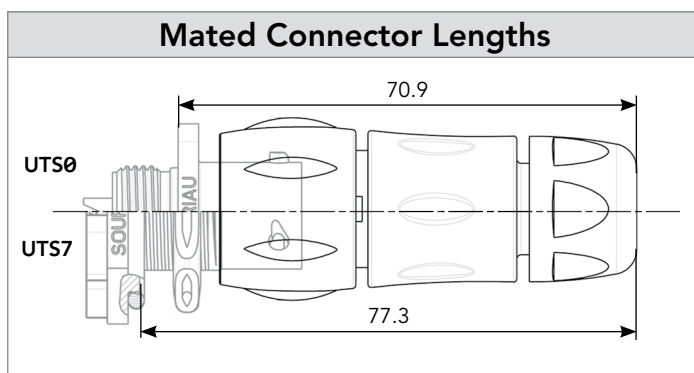
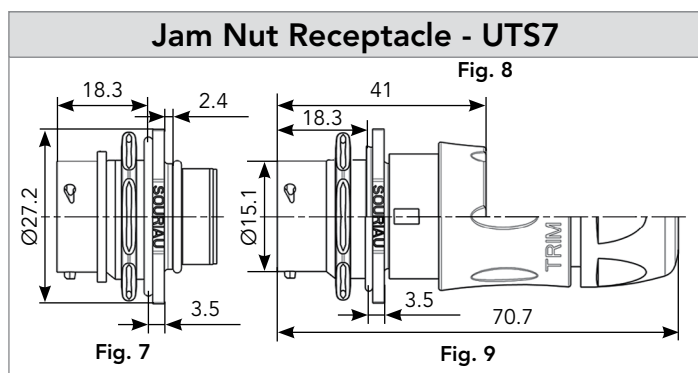
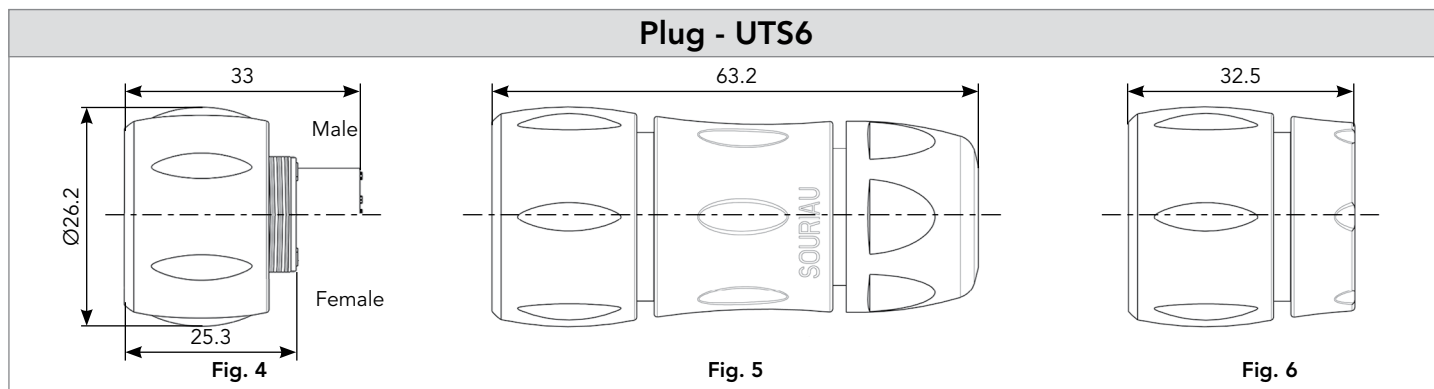
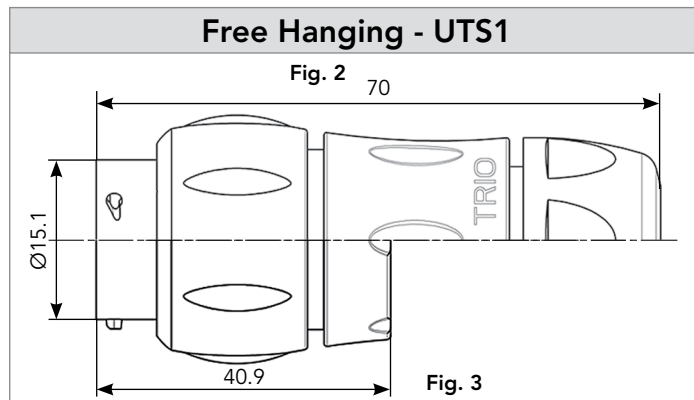
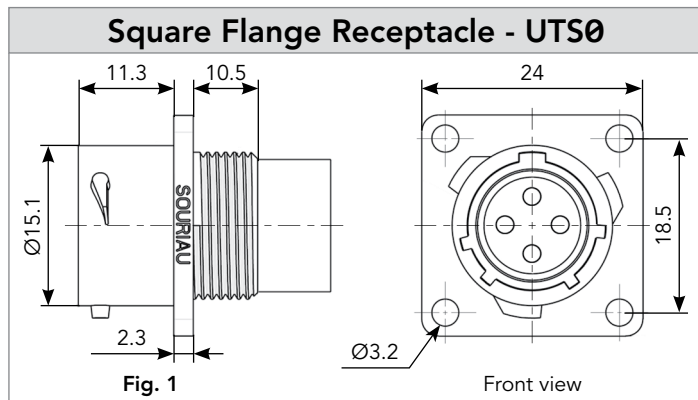
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 4x1.5	HAUTS0V104PST100	HAUTS0V104SST100
Right angle ending	Plug	1.5	H05 VV - F 4x1.5	HAUTS0V104PRA100	HAUTS0V104SRA100

(1) Other cable available on demand

* Other lengths available on demand

104 (Shell size 10, 4x#16)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

104 (Shell size 10, 4x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS10DCG



IP68/69K

Metal terminal

Part number
UTS10DCGR

Handle (without Head)



Part number
SHANGLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS610DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS10DCGE

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005586A	85005595

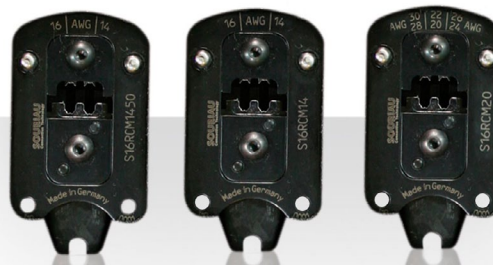
Gasket



Part numbers

UTFD12B

Crimp Tooling (without Shandles)

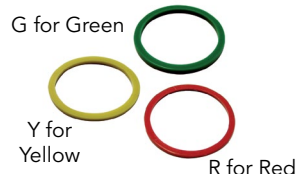


Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yorK090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANGLES

Color Coding Rings



Part numbers

Receptacles	Plugs
UTS710CCRR	UTS610CCRR
UTS710CCRY	UTS610CCRY
UTS710CCRG	UTS610CCRG



Handle



Head



Complete set

104 (Shell size 10, 4x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 164

(2): Loose piece contact available if putting L. Example: **SM20ML1TK6**

(3): For dimensions see page 168

Note: all dimensions are in mm

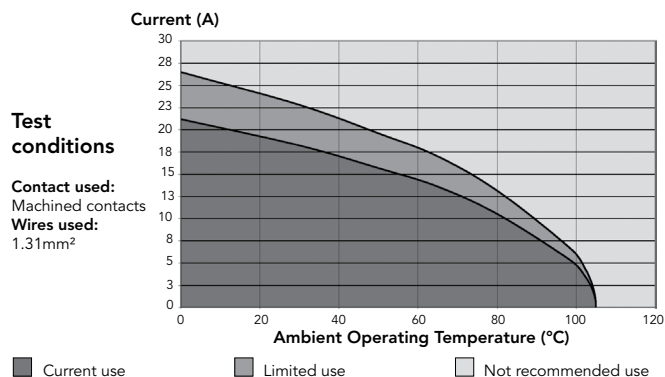
Electrical Characteristics

UL
10A 500V UL94 V-0

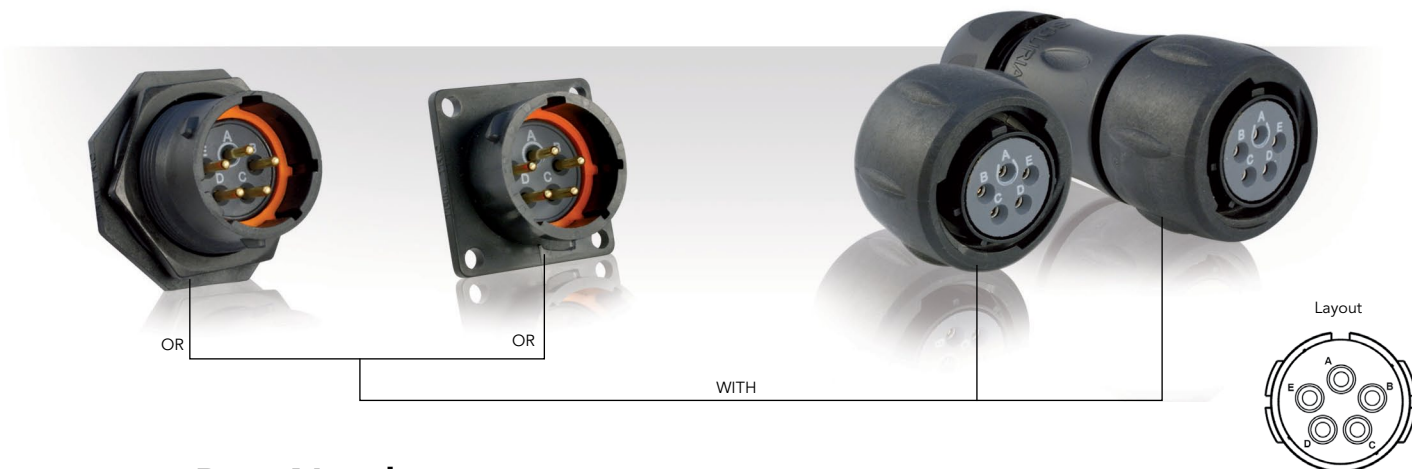
CSA
7A 500V UL94 V-0

IEC
13A 150V 2.5kV 3

UTS 104 Derating Curves



14E5/14D5 (Shell size 14, 5x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 75	Square flange receptacle	Without (Fig. 6)	UTS014E5P	UTS014E5S
	Plug	Without (Fig. 1)	UTS614E5P	UTS614E5S
		Cable gland (Fig. 2)	UTS6JC14E5P	UTS6JC14E5S
	Jam nut receptacle	Without (Fig. 3)	UTS714E5P	UTS714E5S
PCB contacts loaded see page 75	Square flange receptacle	Without (Fig. 6)	UTS014D5P	UTS014D5S
	Jam nut receptacle with hold down clips	Without (Fig. 4)	UTS714D5P32	UTS714D5S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS714D5P	UTS714D5S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

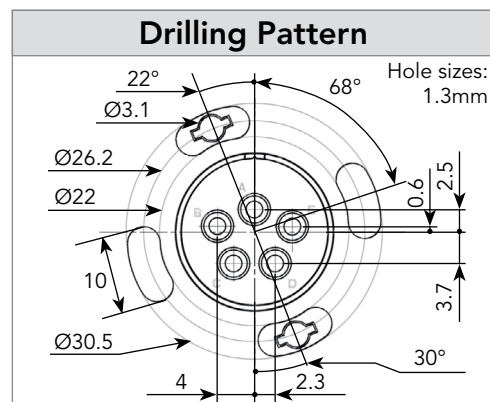
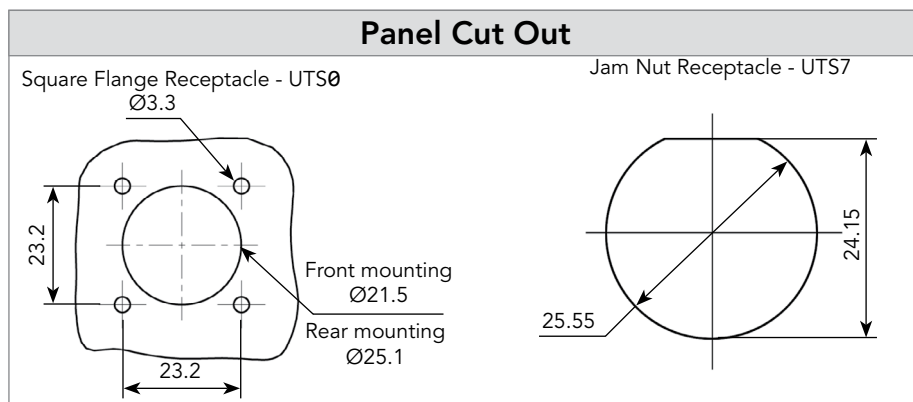
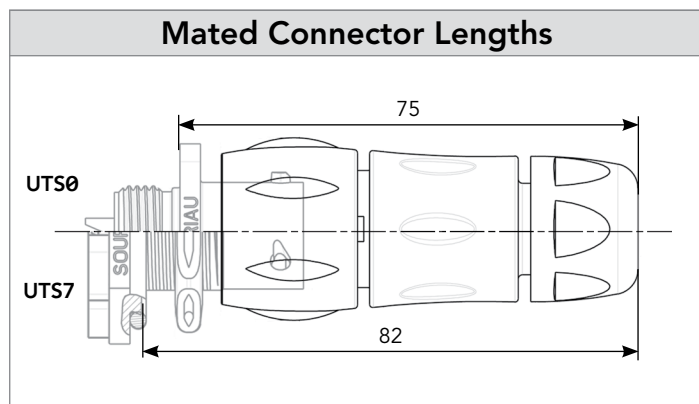
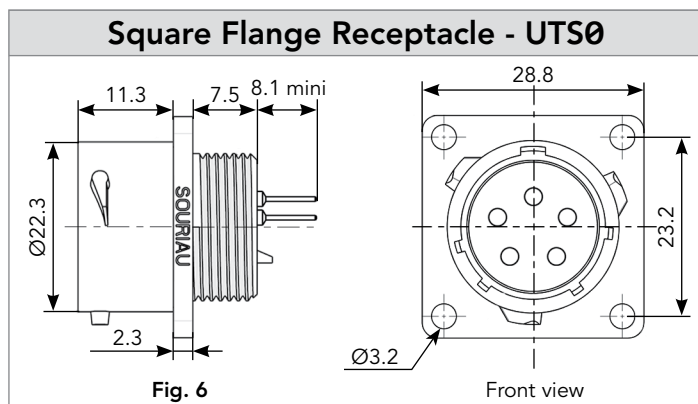
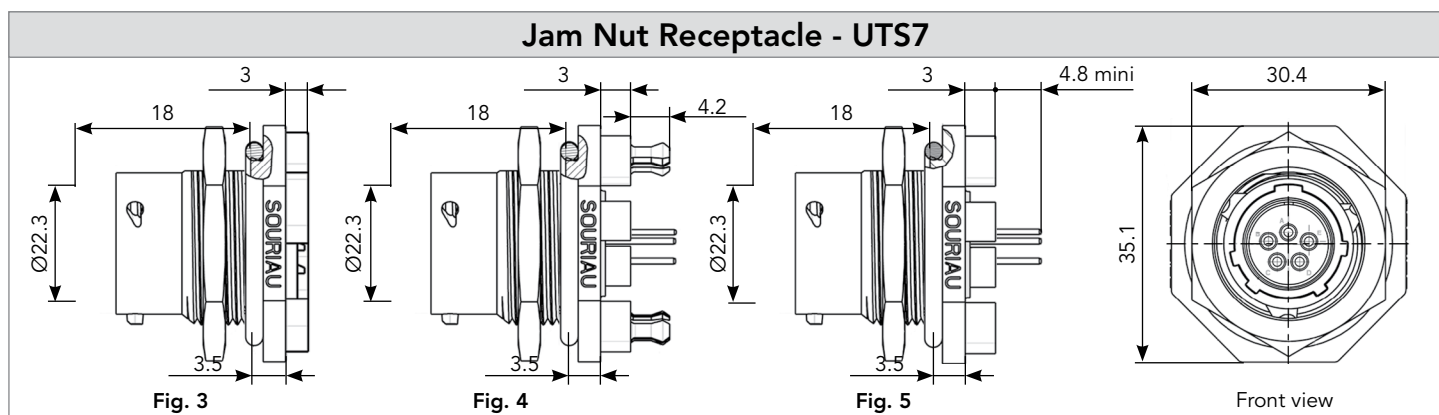
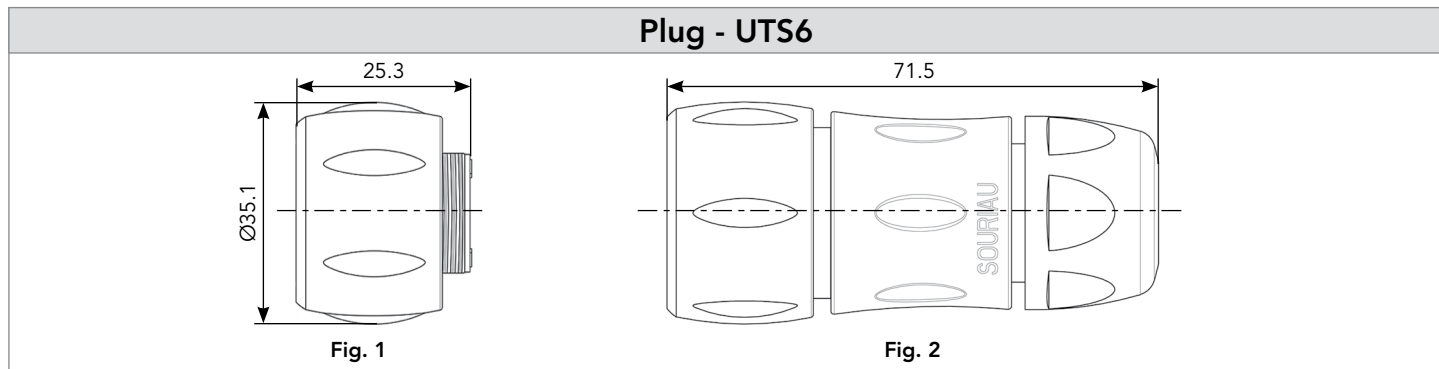
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 5x1.5	HAUTS0V14E5PST100	HAUTS0V14E5SST100
Right angle ending	Plug	1.5	H05 VV - F 5x1.5	HAUTS0V14E5PRA100	HAUTS0V14E5SRA100

(1) Other cable available on demand

* Other lengths available on demand

14E5/14D5 (Shell size 14, 5x#16)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

14E5/14D5 (Shell size 14, 5x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS14DCG



IP68/69K

Metal terminal

Part number

UTS14DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005588A

Plug cap

85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for
Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

14E5/14D5 (Shell size 14, 5x#16)

Contacts

#16	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 to 14	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

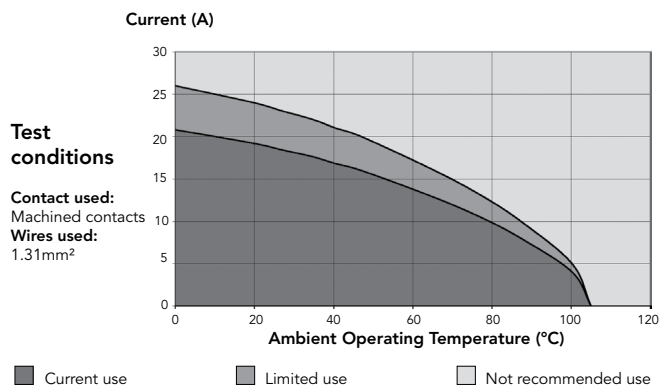
Electrical Characteristics

UL
12A 600V UL94 HB

CSA
12A 600V UL94 HB

IEC
16A 150V 2.5kV 3

UTS 14E5/14D5 Derating Curves



18X2M3 (Shell size 18, 3x#16, 2x#8)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 79	NPT threaded receptacle	Without (Fig. 1)	UTS718X2M3PNPT	UTS718X2M3SNPT
	Plug	Without (Fig. 2)	UTS618X2M3P	UTS618X2M3S
	Plug	Cable gland (Fig. 3)	UTS6JC18X2M3P	UTS6JC18X2M3S
PCB contacts supplied separately see page 79	NPT threaded receptacle	Without (Fig. 1)	UTS718X2M3PNPT	UTS718X2M3SNPT

18X2M3 (Shell size 18, 3x#16, 2x#8)

Dimensions

NPT Threaded Receptacle - UTS7

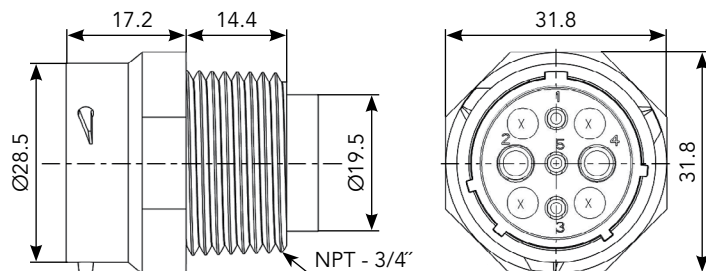


Fig. 1

5

Plug - UTS6

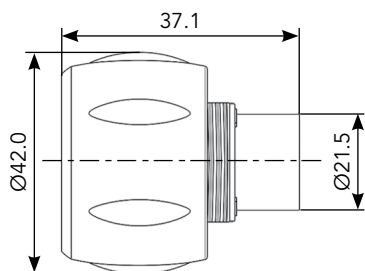


Fig. 2

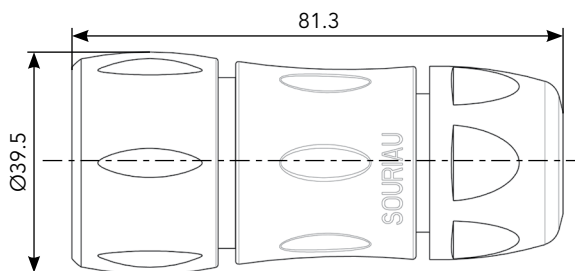
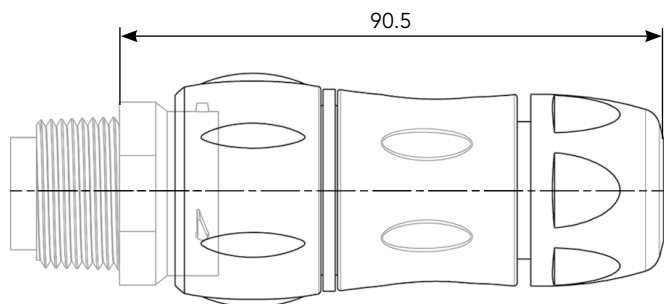
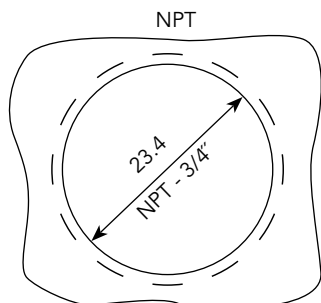


Fig. 3

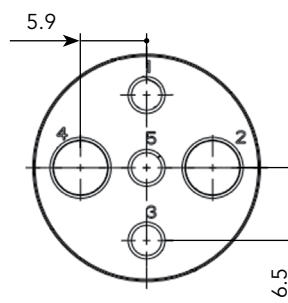
Mated Connector Length - UTS6JC



Panel cut



Drilling Pattern



Note: all dimensions are in mm

18X2M3 (Shell size 18, 3x#16, 2x#8)

Accessories and Tooling

Jam Nut or NPT Threaded Receptacle Sealing Caps



IP68/69K

Part number

UTS18DCG



IP68/69K

Metal terminal

Part number

UTS18DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS618DCG

Extraction Tool #16



Part number

RX2025GE1

Plastic Protective Cap



Part numbers

Receptacle
cap

Plug cap

85005590A

85005599

Color Coding Rings

G for Green


Y for
Yellow


R for Red

Part numbers

Receptacles

Plugs

UTS718CCRR

UTS618CCRR

UTS718CCRY

UTS618CCRY

UTS718CCRG

UTS618CCRG

Crimp Tooling #16



Part number

SHANDLES



Part number

TOOLKIT



Contacts	Contact size	Part number of head
RM/RC 28M1K	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K		S16RCM20*
RM/RC 20M13K		S16RCM20*
RM/RC 20M12K		S16RCM20*
RM/RC 16M23K		S16RCM16*
RM/RC 14M30K		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES

Crimp Tooling #8



Part number hand tool

M317


Part number
positioner + locator setting

VGE10078A

Extraction Tool #8


Part number
extraction tool

51060210936

18X2M3 (Shell size 18, 3x#16, 2x#8)

Contacts

#16	Contact type	Wire size		Part number		Max wire Ø	Max insulator Ø
		AWG	mm ²	Male	Female		
Crimp	Machined	30-28	0.50-0.08	RM28M1K	RC28M1K	0.55	1.00
		26-24	0.13-0.25	RM24M9K	RC24M9K	0.80	1.60
		22-20	0.32-0.52	RM20M13K	RC20M13K	1.15	1.80
		22-20	0.32-0.52	RM20M12K	RC20M12K	1.15	2.20
		20-16	0.52-1.50	RM16M23K	RC16M23K	1.80	3.20
		16-14	1.50-2.50	RM14M30K	RC14M30K	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	0.80-1.50	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	0.80-1.50	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	2.50	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	-	-	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp	-	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	-	RMDXK10D28 + yorK090	RCDXK1D28 + yorK090	-	-
	Twisted pair Monocrimp	-	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	-	RMPOF1000	RCPOF1000B	-	-
#8							
Crimp	Machined	16	1.50	82913601A ⁽¹⁾	82913600A ⁽¹⁾	1.72	6.50
		14	2.50	82913603A ⁽¹⁾	82913602A ⁽¹⁾	2.22	
		12	4.00	82913605A ⁽¹⁾	82913604A ⁽¹⁾	2.82	
		10	6.00	82913607A ⁽¹⁾	82913606A ⁽¹⁾	3.50	
		8	10.00	82913609A ⁽¹⁾	82913608A ⁽¹⁾	4.35	
PCB	Machined ⁽³⁾	-	-	82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	-	-

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: SM20ML1TK6 (3): For dimensions see page 168 Note: all dimensions are in mm

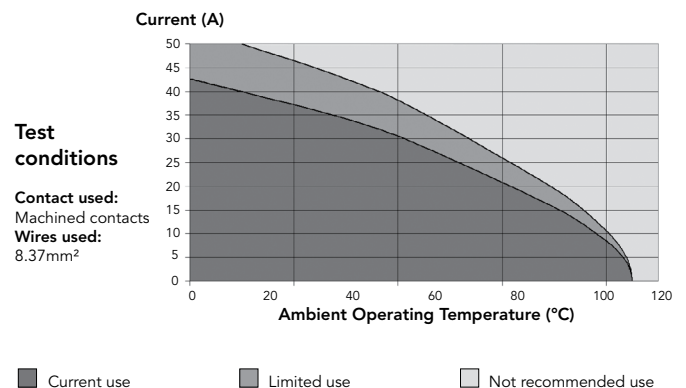
Electrical Characteristics

UL
44A 600V UL94 V-0

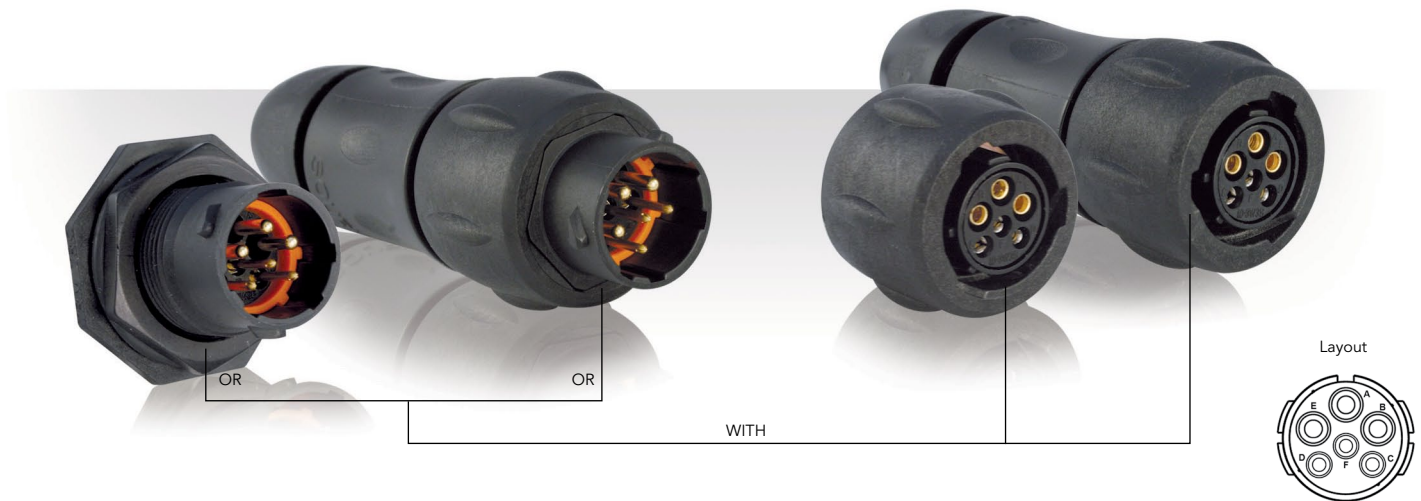
CSA
34A 600V UL94 V-0

IEC
32A 300V 4kV 3

UTS 18X2M3 Derating Curves



103W3 (Shell size 10, 3x#20, 3x#16)

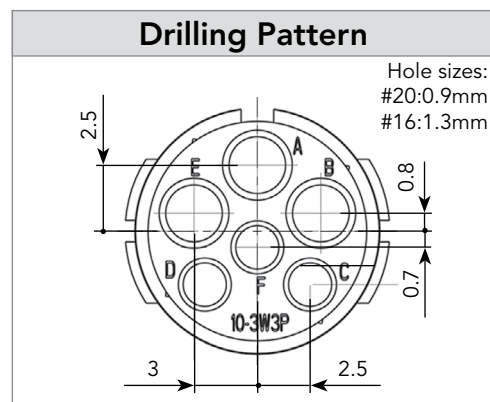
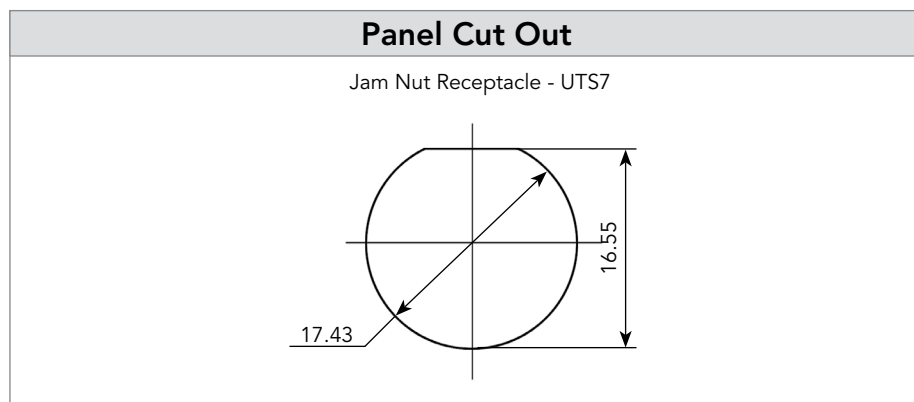
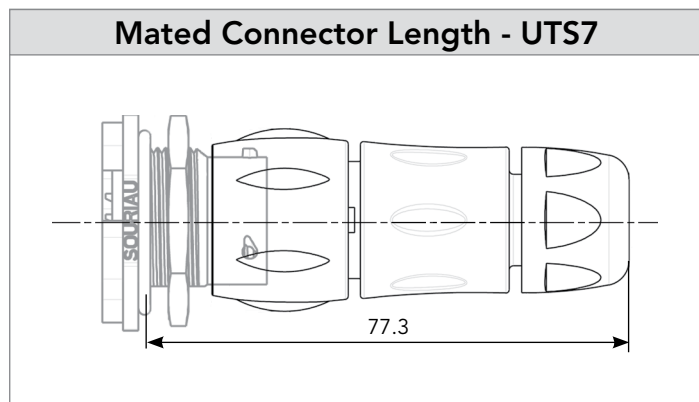
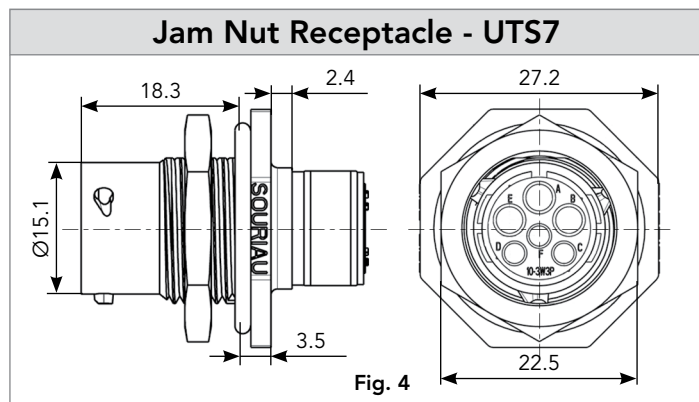
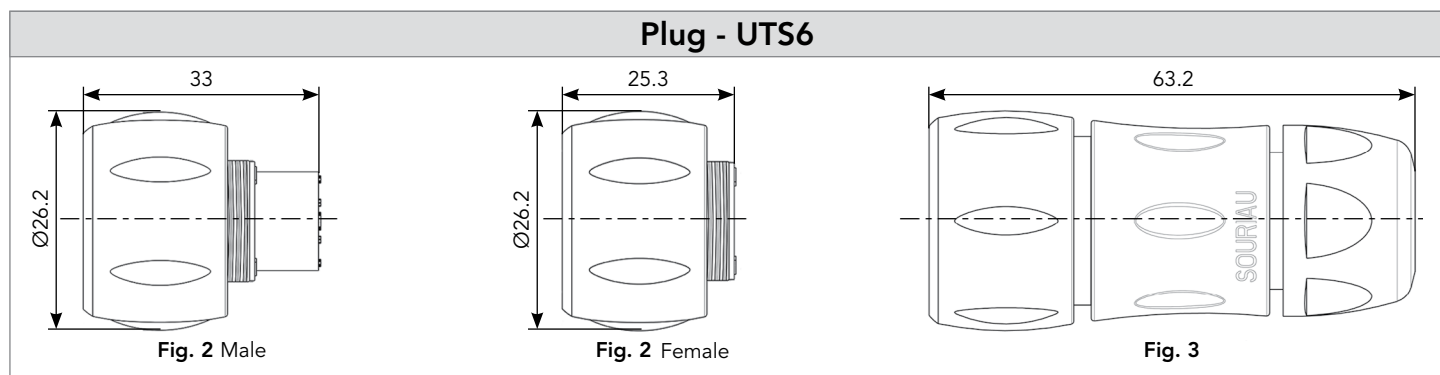
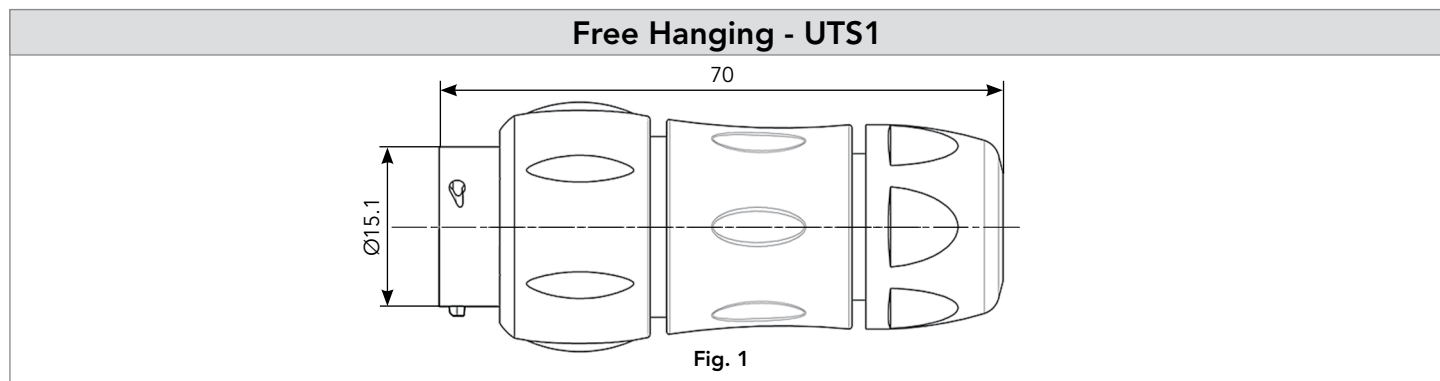


Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 83	Free hanging receptacle	Cable gland (Fig. 1)	UTS1JC103W3P	UTS1JC103W3S
	Plug	Without (Fig. 2)	UTS6103W3P	UTS6103W3S
	Plug	Cable gland (Fig. 3)	UTS6JC103W3P	UTS6JC103W3S
	Jam nut receptacle	Without (Fig. 4)	UTS7103W3P	UTS7103W3S
PCB contacts supplied separately see page 83	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 4)	UTS7103W3P	UTS7103W3S

103W3 (Shell size 10, 3x#20, 3x#16)

Dimensions



Note: all dimensions are in mm

103W3 (Shell size 10, 3x#20, 3x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS10DCG



IP68/69K

Metal terminal

Part number
UTS10DCGR

Handle



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS610DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS10DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap
85005586A

Plug cap
85005595

Gasket



Part numbers

UTFD12B

Color Coding Rings

G for Green


Y for
Yellow


R for Red



Part numbers

Receptacles

Plugs

UTS710CCRR

UTS610CCRR

UTS710CCRY

UTS610CCRY

UTS710CCRG

UTS610CCRG

Crimp Tooling



Contacts	Contact size	Part number of head
RM/RC 28M1K	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K		S16RCM20*
RM/RC 20M13K		S16RCM20*
RM/RC 20M12K		S16RCM20*
RM/RC 16M23K		S16RCM16*
RM/RC 14M30K		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28		
RMDX60xxD28		
RCDX60xxD28		
RM/RC DXK10D28 + york090	Standard contacts #20 Ø 1mm	S20RCM* S20RCM* S20RCM* S20SCM20* S20SCM20*
RM/RC 24W3K ⁽¹⁾		
RM/RC 20W3K ⁽¹⁾		
RM/RC 18W3K ⁽¹⁾		
SM/SC 24WL3S		
SM/SC 20WL3S		

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES

103W3 (Shell size 10, 3x#20, 3x#16)

Contacts

#16	Contact type	Wire size		Part number		Max wire Ø	Max insulator Ø
		AWG	mm ²	Male	Female		
Crimp	Machined	30-28	0.50-0.08	RM28M1K	RC28M1K	0.55	1.00
		26-24	0.13-0.25	RM24M9K	RC24M9K	0.80	1.60
		22-20	0.32-0.52	RM20M13K	RC20M13K	1.15	1.80
		22-20	0.32-0.52	RM20M12K	RC20M12K	1.15	2.20
		20-16	0.52-1.50	RM16M23K	RC16M23K	1.80	3.20
		16-14	1.50-2.50	RM14M30K	RC14M30K	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	0.80-1.50	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	0.80-1.50	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	2.50	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	-	-	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp	-	-	RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece	-	-	RMDXK10D28 + yorok090	RCDXK1D28 + yorok090	-	-
	Twisted pair Monocrimp	-	-	RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	-	RMPDF1000	RCPOF1000B	-	-
#20							
Crimp	Machined	26-24	0.13-0.25	RM24W3K ⁽¹⁾	RC24W3K ⁽¹⁾	0.80	1.60
		22-20	0.32-0.52	RM20W3K ⁽¹⁾	RC20W3K ⁽¹⁾	1.15	1.60
		20-18	0.50-0.93	RM18W3K ⁽¹⁾	RC18W3K ⁽¹⁾	1.30	2.10
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24W3TK6 ⁽²⁾	SC24W3TK6 ⁽²⁾	-	0.90-1.60
		26-24	0.13-0.25	SM24W3S26 ⁽²⁾	SC24W3S25 ⁽²⁾	-	0.90-1.60
		22-20	0.32-0.52	SM20W3TK6 ⁽²⁾	SC20W3TK6 ⁽²⁾	-	1.20-2.10
		22-20	0.32-0.52	SM20W3S26 ⁽²⁾	SC20W3S25 ⁽²⁾	-	1.20-2.10
PCB	Machined ⁽³⁾	-	-	RMW5016K	RCW5016K	-	-

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: SM20ML1TK6 (3): For dimensions see page 168 Note: all dimensions are in mm

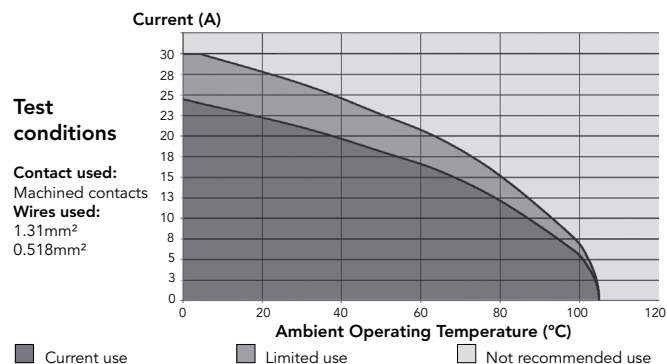
Electrical Characteristics

UL
10A 500V UL94 V-0

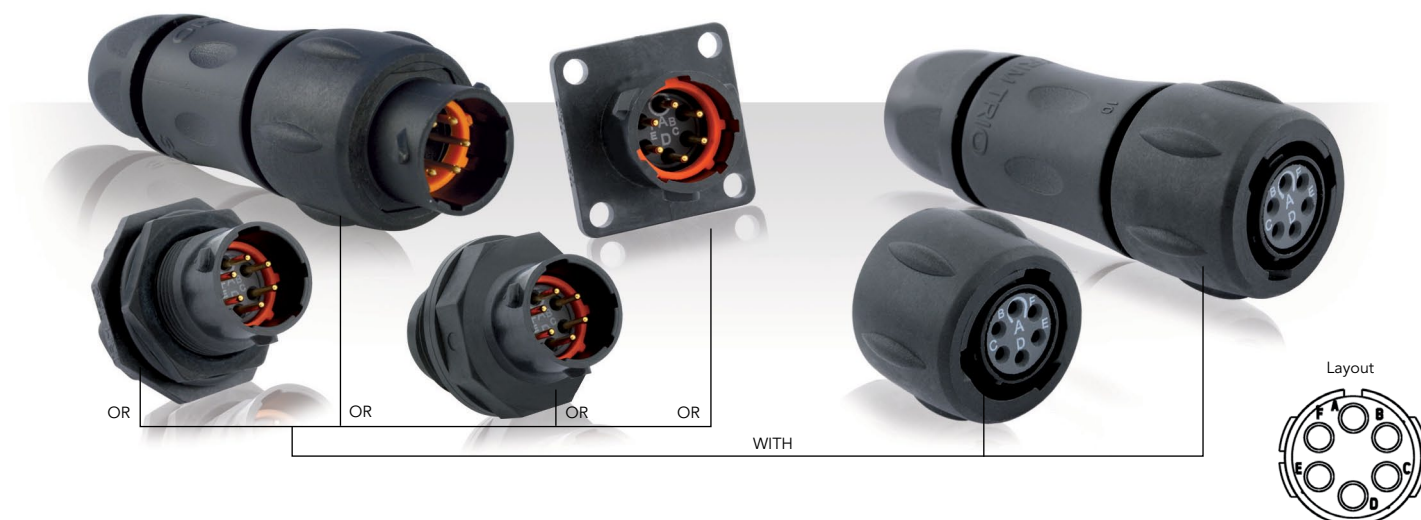
CSA
7A 500V UL94 V-0

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

UTS 103W3 Derating Curves



106 - 10E6/10D6 (Shell size 10, 6x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 87	Free hanging receptacle	Cable gland (Fig. 1)	UTS1JC106P	UTS1JC106S
	Plug	Without (Fig. 2)	UTS6106P	UTS6106S
	Plug	Cable gland (Fig. 3)	UTS6JC106P	UTS6JC106S
	Jam nut receptacle	Without (Fig. 4)	UTS7106P	UTS7106S
PCB contacts supplied separately see page 87	Jam nut receptacle	Without (Fig. 4)	UTS7106P	UTS7106S
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig. 10)	UTS010E6P	UTS010E6S
	Plug	Without (Fig. 2)	UTS610E6P	UTS610E6S
		Cable gland (Fig. 3)	UTS6JC10E6P	UTS6JC10E6S
	Jam nut receptacle	Without (Fig. 5)	UTS710E6P	UTS710E6S
Hand solder electrical contacts loaded see page 87	M16 threaded receptacle	Without (Fig. 8)	UTS710E6PM16	UTS710E6SM16
PCB contacts supplied separately see page 87	Jam nut receptacle	Without (Fig.4)	UTS7106P	UTS7106S
PCB contacts loaded see page 87	Square flange receptacle	Without (Fig.9)	UTS010D6P	UTS010D6S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.7)	UTS710D6P32	UTS710D6S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.6)	UTS710D6P	UTS710D6S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

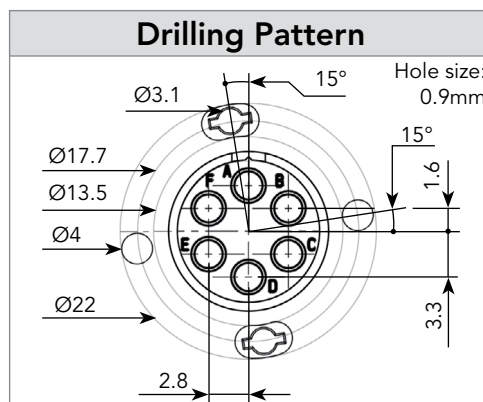
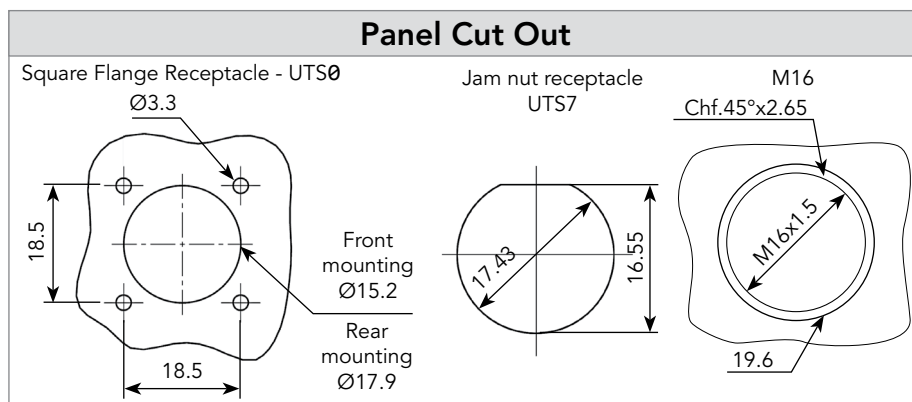
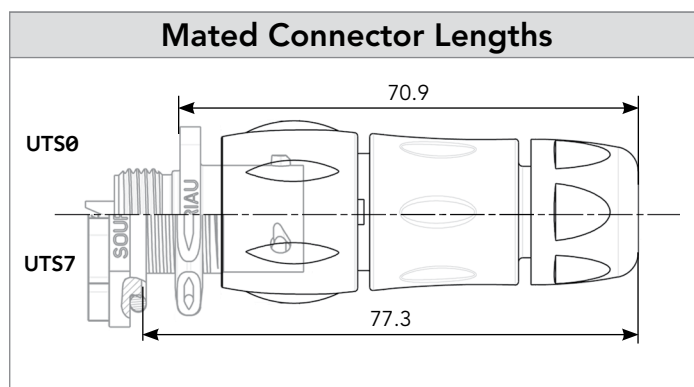
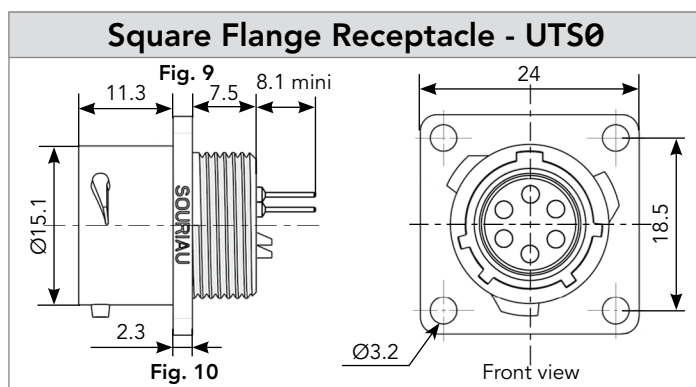
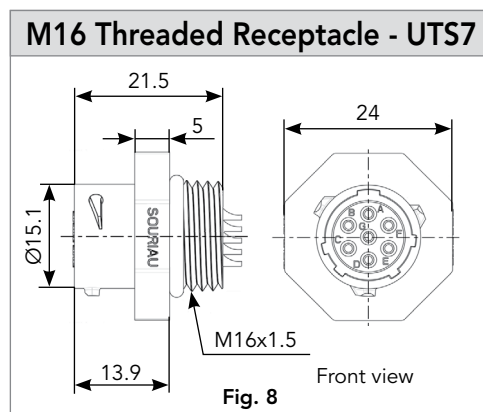
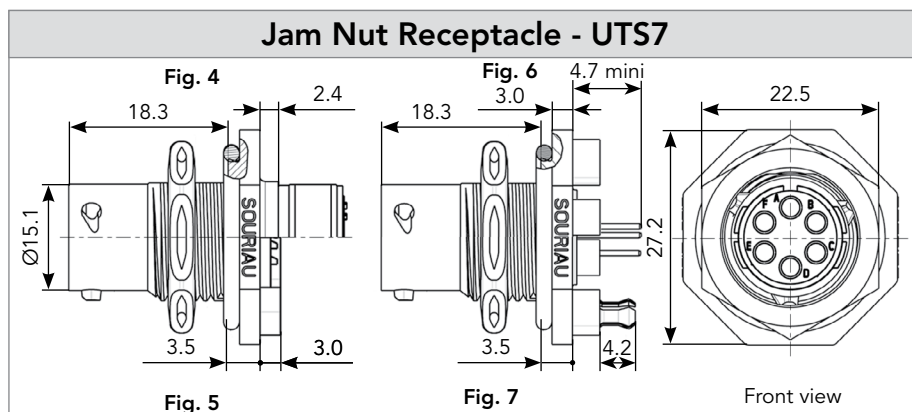
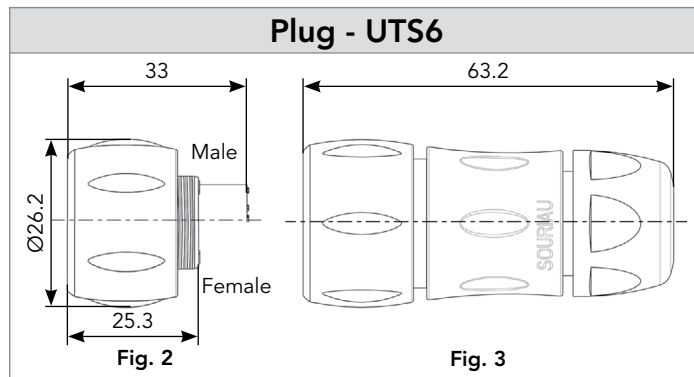
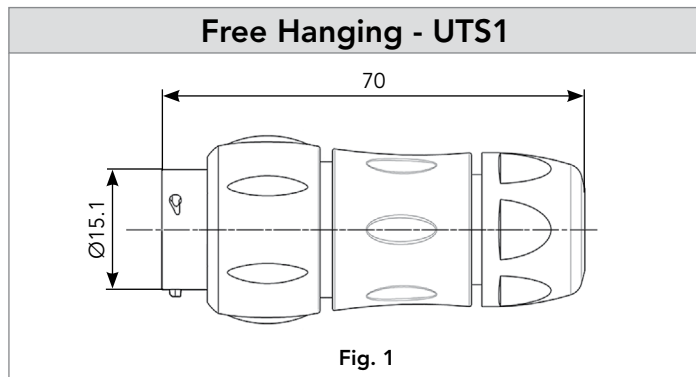
Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 6x0.5	HAUTS0V106PST100	HAUTS0V106SST100
				HAUTS0V10E6PST100	HAUTS0V10E6SST100
Right angle ending	Plug	0.5	H05 VV - F 6x0.5	HAUTS0V106PRA100	HAUTS0V106SRA100
				HAUTS0V10E6PRA100	HAUTS0V10E6SRA100

(1) Other cable available on demand

* Other lengths available on demand

106 - 10E6/10D6 (Shell size 10, 6x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

106 - 10E6/10D6 (Shell size 10, 6x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS10DCG



IP68/69K

Metal terminal

Part number
UTS10DCGR

Handle (without Head)



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS610DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS10DCGE

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 24W3K ⁽¹⁾	Standard contacts #20 Ø 1mm	S20RCM*
RM/RC 20W3K ⁽¹⁾		S20RCM*
RM/RC 18W3K ⁽¹⁾		S20RCM*
SM/SC 24WL3S		S20SCM20*
SM/SC 20WL3S		S20SCM20*

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005586A	85005595

Gasket



Part numbers

UTFD12B

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles	Plugs
UTS710CCRR	UTS610CCRR
UTS710CCRY	UTS610CCRY
UTS710CCRG	UTS610CCRG

Extraction Tool #20



Part number
RX20D44



Handle

+



Head

=



Complete set

106 - 10E6/10D6 (Shell size 10, 6x#20)

Contacts

#20	Contact type	Wire size		Part number		Max wire Ø	Max insulator Ø
		AWG	mm ²	Male	Female		
Crimp	Machined	26-24	0.13-0.25	RM24W3K ⁽¹⁾	RC24W3K ⁽¹⁾	0.80	1.60
		22-20	0.32-0.52	RM20W3K ⁽¹⁾	RC20W3K ⁽¹⁾	1.15	1.60
		20-18	0.50-0.93	RM18W3K ⁽¹⁾	RC18W3K ⁽¹⁾	1.30	2.10
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24W3TK6 ⁽²⁾	SC24W3TK6 ⁽²⁾	-	0.90-1.60
		26-24	0.13-0.25	SM24W3S26 ⁽²⁾	SC24W3S25 ⁽²⁾	-	0.90-1.60
		22-20	0.32-0.52	SM20W3TK6 ⁽²⁾	SC20W3TK6 ⁽²⁾	-	1.20-2.10
		22-20	0.32-0.52	SM20W3S26 ⁽²⁾	SC20W3S25 ⁽²⁾	-	1.20-2.10
PCB	Machined ⁽³⁾	-	-	RMW5016K	RCW5016K	-	-

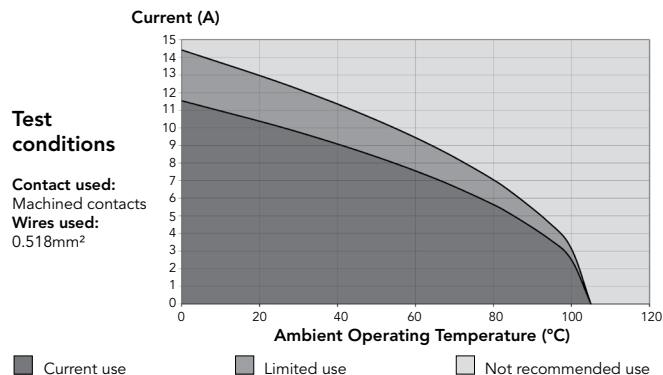
(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: SM20WL3TK6 (3): For dimensions see page 168 Note: all dimensions are in mm

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	22 to 18	3.8 mm

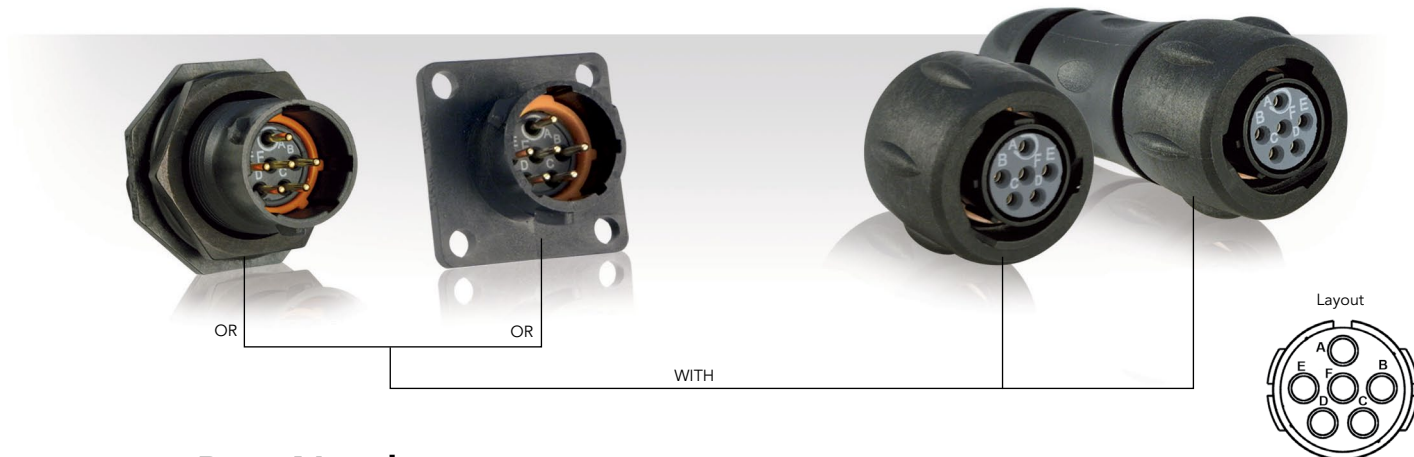
Electrical Characteristics

UTS 106 UL 6A 250V UL94 V-0	UTS 10E6/10D6 UL 6A 250V UL94 HB
CSA 4A 250V UL94 V-0	CSA 6A 250V UL94 HB
IEC 7A 32V 1.5kV 3	

UTS 106 - 10E6/10D6 Derating Curves



10E98/10D98 (Shell size 10, 6x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 91	Square flange receptacle	Without (Fig. 6)	UTS010E98P	UTS010E98S
	Plug	Without (Fig. 1)	UTS610E98P	UTS610E98S
		Cable gland (Fig. 2)	UTS6JC10E98P	UTS6JC10E98S
	Jam nut receptacle	Without (Fig. 3)	UTS710E98P	UTS710E98S
PCB contacts loaded see page 91	Square flange receptacle	Without (Fig. 7)	UTS010D98P	UTS010D98S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 4)	UTS710D98P32	UTS710D98S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS710D98P	UTS710D98S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

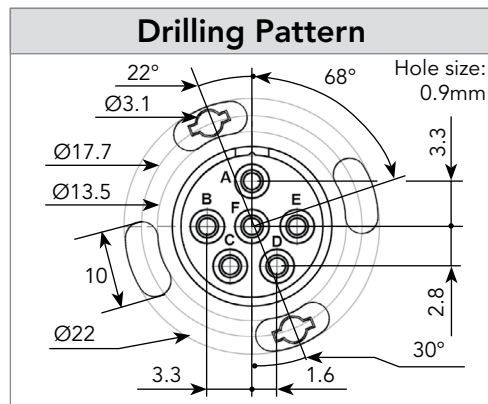
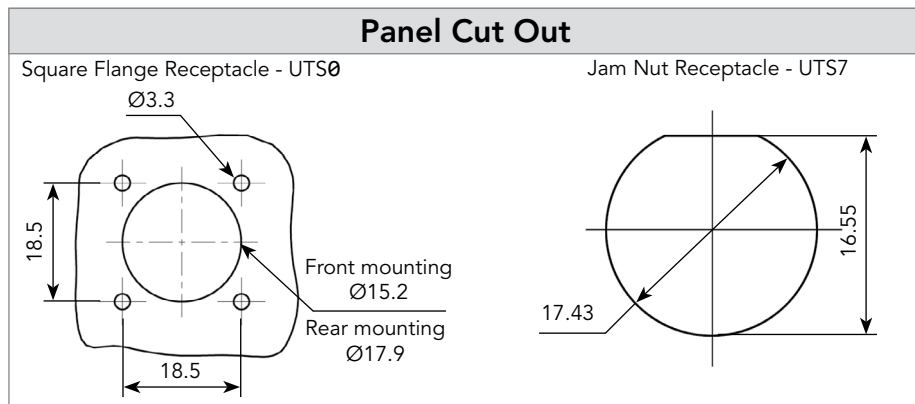
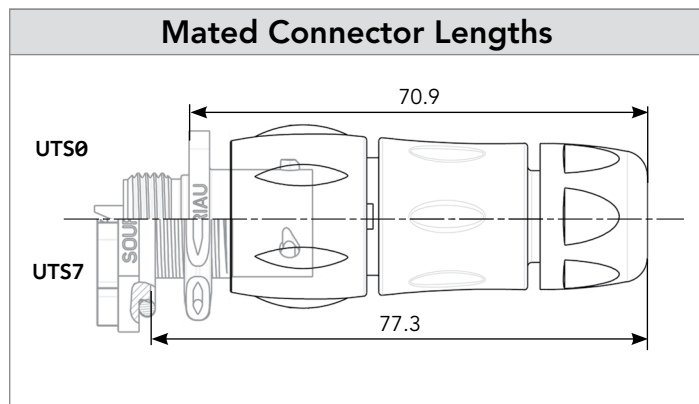
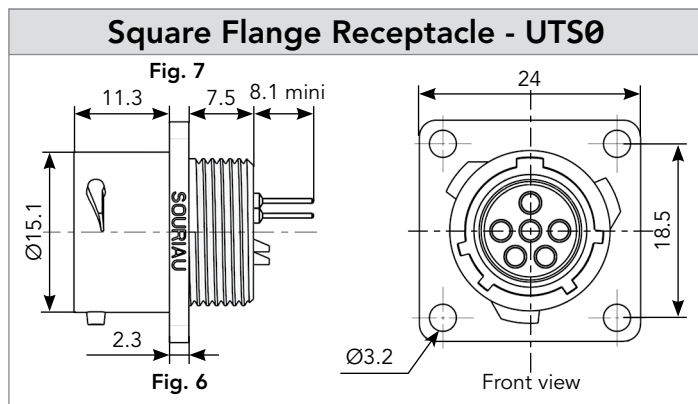
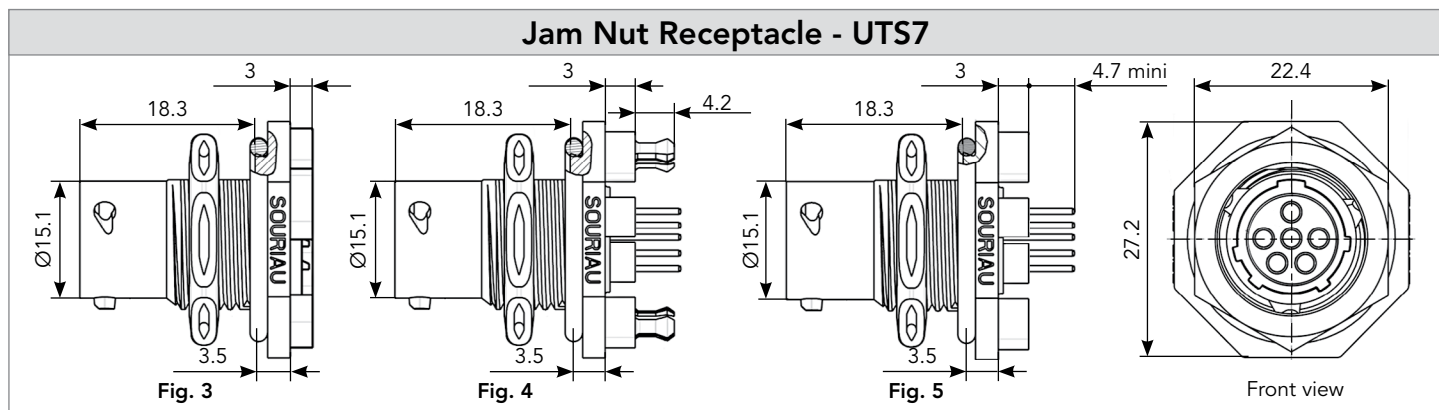
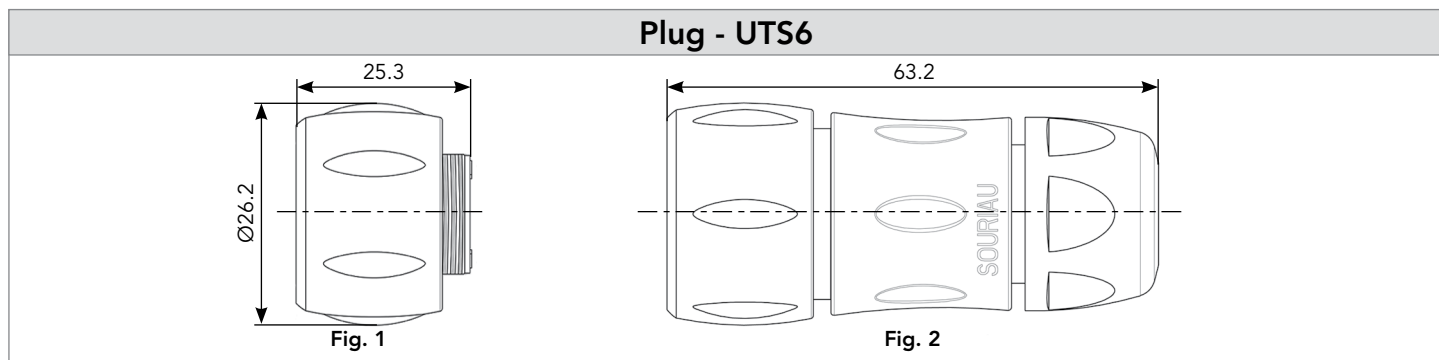
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 6x0.5	HAUTS0V10E98PST100	HAUTS0V10E98SST100
Right angle ending	Plug	0.5	H05 VV - F 6x0.5	HAUTS0V10E98PRA100	HAUTS0V10E98SRA100

(1) Other cable available on demand

* Other lengths available on demand

10E98/10D98 (Shell size 10, 6x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

10E98/10D98 (Shell size 10, 6x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS10DCG



IP68/69K

Metal terminal

Part number

UTS10DCGR

Plug Protective Cap



IP68/69K

Part number

UTS610DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS10DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005586A

Plug cap

85005595

Gasket



Part numbers

UTFD12B

Color Coding Rings

G for Green



Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS710CCRR

UTS610CCRR

UTS710CCRY

UTS610CCRY

UTS710CCRG

UTS610CCRG

10E98/10D98 (Shell size 10, 6x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

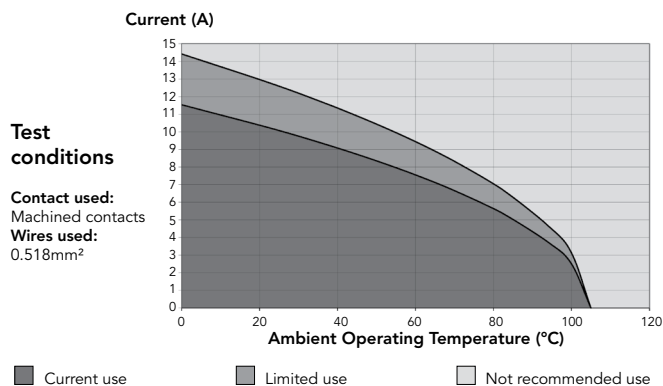
Electrical Characteristics

UL
6A 250V UL94 HB

CSA
6A 250V UL94 HB

IEC
7A 50V 1.5kV 3

UTS 10E98/10D98 Derating Curves



147 - 14E7/14D7 (Shell size 14, 6 + ground, 7x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 95	Square flange receptacle	Without (Fig. 2)	UTS0147P	UTS0147S
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	UTS1GJC147P	-
	Free hanging receptacle	Nut and grommet (Fig. 4)	UTS1GN147P	-
	Free hanging receptacle	Cable gland (Fig. 3)	UTS1JC147P	UTS1JC147S
	Plug	Without (Fig. 5)	UTS6147P	UTS6147S
	Plug	Cable gland and grommet (Fig. 6)	-	UTS6GJC147S
	Plug	Nut and grommet (Fig. 7)	-	UTS6GN147S
	Plug	Cable gland (Fig. 6)	UTS6JC147P	UTS6JC147S
	Jam nut receptacle	Without (Fig. 8)	UTS7147P	UTS7147S
	Jam nut receptacle	Cable gland and grommet (Fig. 10)	UTS7GJC147P	-
	Jam nut receptacle	Nut and grommet (Fig. 9)	UTS7GN147P	-
PCB contacts loaded see page 95	Jam nut receptacle	With stand off and hold down clip (Fig. 11)	UTS7147PSEK9	-
Screw contacts loaded	Jam nut receptacle	Without (Fig. 8)	UTS7147PSCR	UTS7147SSCR
	Free hanging receptacle	Cable gland (Fig. 3)	UTS1JC147PSCR	-
	Plug	Cable gland (Fig. 6)	UTS6JC147PSCR	UTS6JC147SSCR
Hand solder electrical contacts loaded see page 95	Square flange receptacle	Without (Fig. 2)	UTS014E7P	UTS014E7S
	Plug	Cable gland (Fig. 6)	UTS6JC14E7P	UTS6JC14E7S
	Jam nut receptacle	Without (Fig. 8)	UTS714E7P	UTS714E7S
PCB contacts loaded see page 95	Square flange receptacle	Without (Fig. 1)	UTS014D7P	UTS014D7S
	Jam nut receptacle with stand off and hold down clips	Without (Fig. 11)	UTS714D7P32	UTS714D7S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 11)	UTS714D7P	UTS714D7S

Sealed unsealed

Overmoulded Cable Assembly Part Numbers

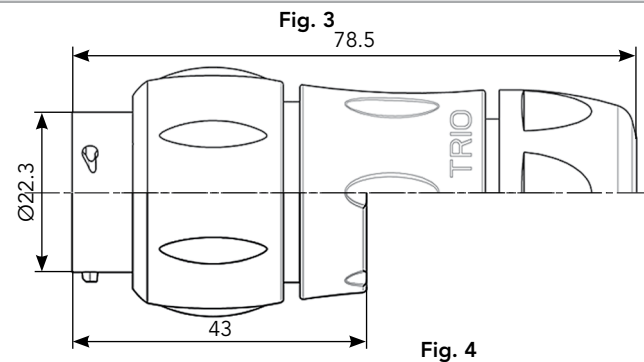
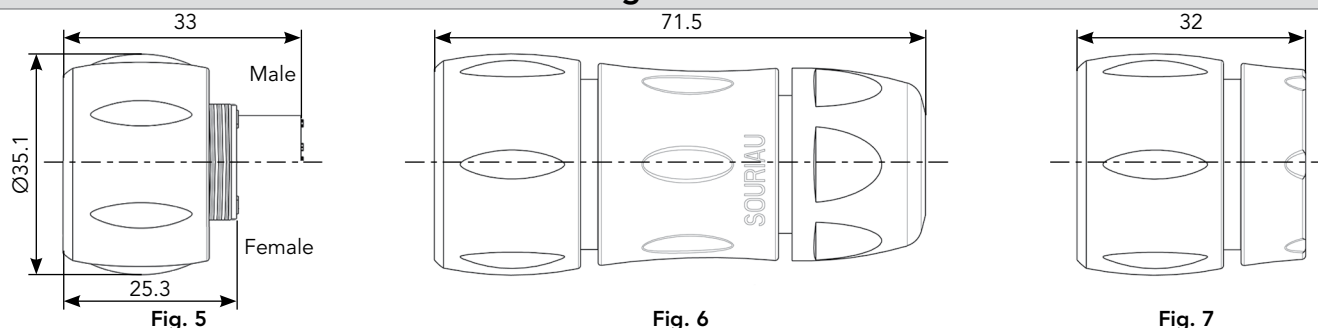
Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 7x1.5	HAUTS0V147PST100	HAUTS0V147SST100
				HAUTS0V14E7PST100	HAUTS0V14E7SST100
Right angle ending	Plug	1.5	H05 VV - F 7x1.5	HAUTS0V147PRA100	HAUTS0V147SRA100
				HAUTS0V14E7PRA100	HAUTS0V14E7SRA100

(1) Other cable available on demand

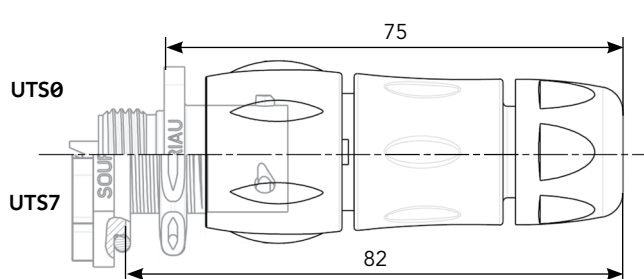
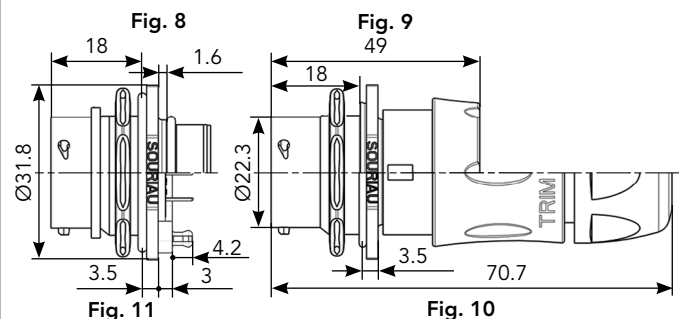
* Other lengths available on demand

Dimensions

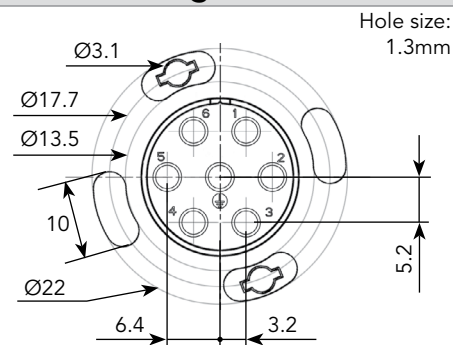
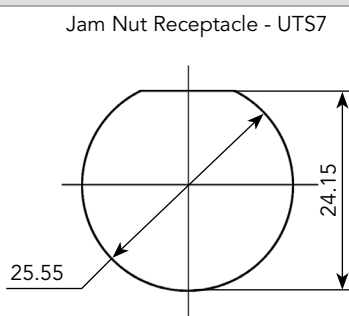
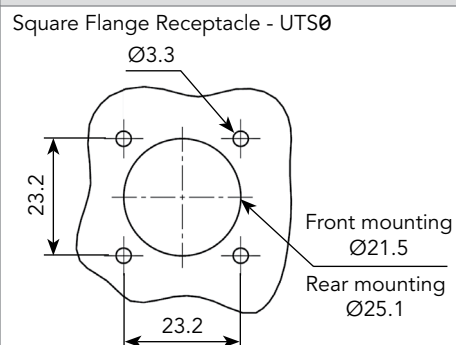
Free Hanging - UTS1

 $6 + \frac{1}{2}$ 

Mated Connector Lengths



Drilling Pattern



Note: all dimensions are in mm

147 - 14E7/14D7 (Shell size 14, 6 + ground, 7x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS14DCG



IP68/69K

Metal terminal

Part number
UTS14DCGR

Handle (without Head)



Part number
SHANGLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS14DCGE

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yorK090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANGLES

Plastic Protective Cap



Part numbers

Receptacle cap
85005588A

Plug cap
85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG



Handle



Head



Complete set

147 - 14E7/14D7 (Shell size 14, 6 + ground, 7x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-
Hand-solder	Loaded in the connector	14-18	-	-	-	-

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: SM20ML1TK6 (3): For dimensions see page 168 Note: all dimensions are in mm

6 +
⏏

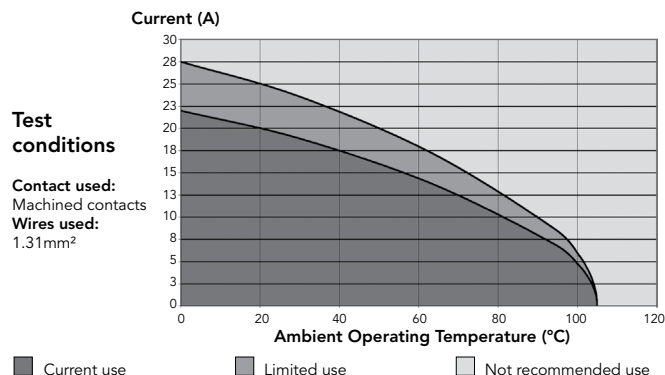
Electrical Characteristics

UL
10A 500V UL94 V-0

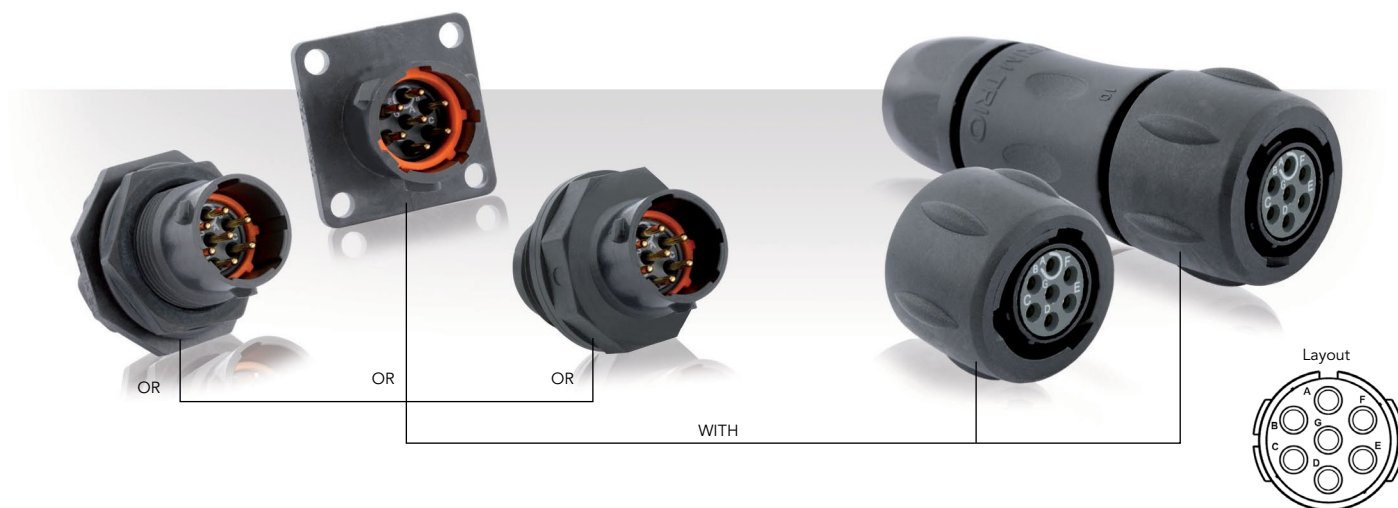
CSA
7A 500V UL94 V-0

IEC
16A 300V 4kV 3
Temperature elevation: 50°C

UTS 147 - 14E7/14D7 Derating Curves



10E7/10D7 (Shell size 10, 7x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 99	Square flange receptacle	Without (Fig. 1)	UTS010E7P	UTS010E7S
	Plug	Without (Fig. 2)	UTS610E7P	UTS610E7S
		Cable gland (Fig. 3)	UTS6JC10E7P	UTS6JC10E7S
	Jam nut receptacle	Without (Fig. 4)	UTS710E7P	UTS710E7S
	M16 threaded receptacle	Without (Fig. 5)	UTS710E7PM16	UTS710E7SM16

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

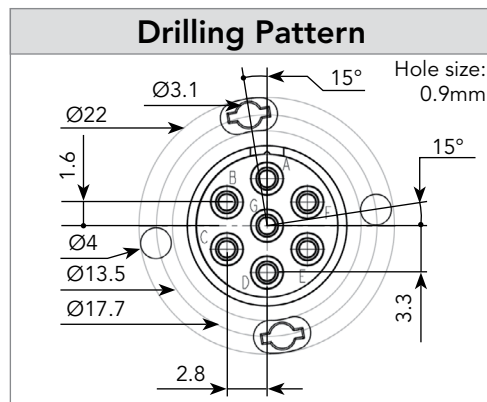
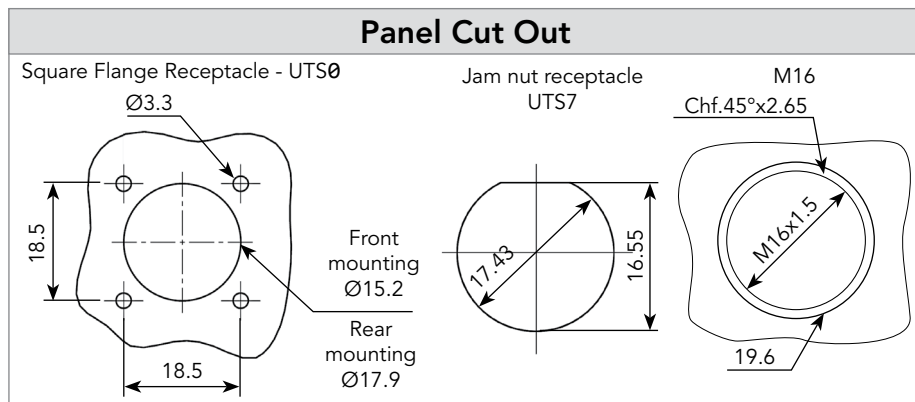
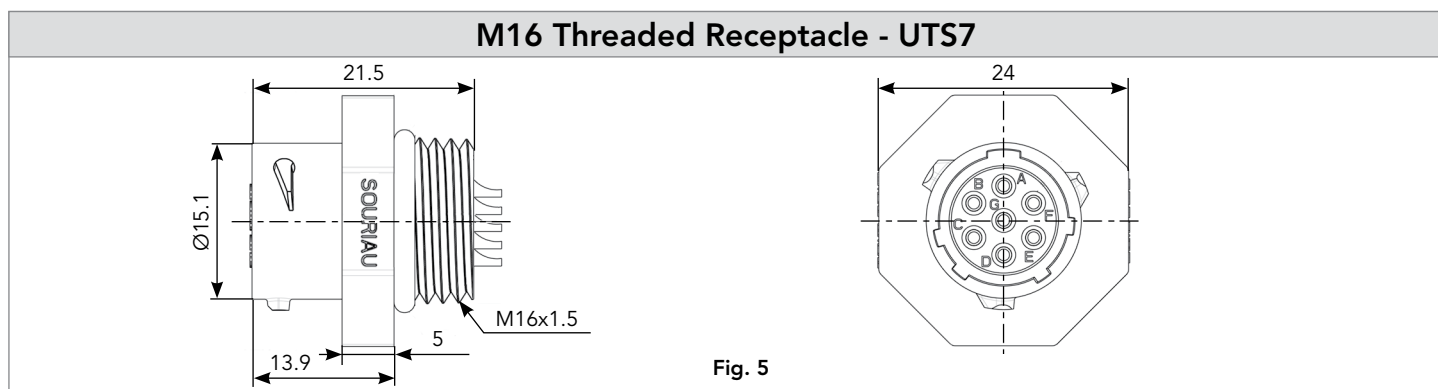
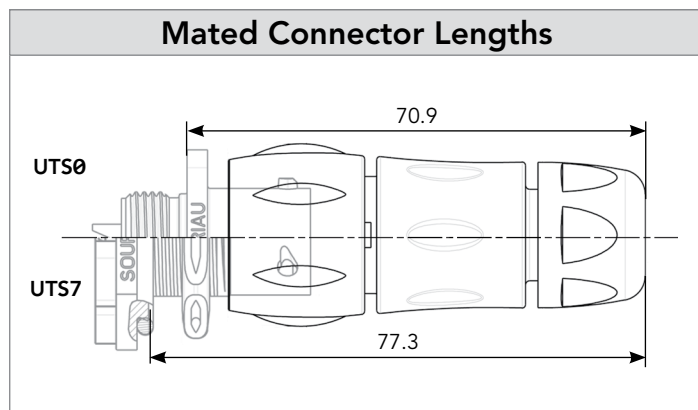
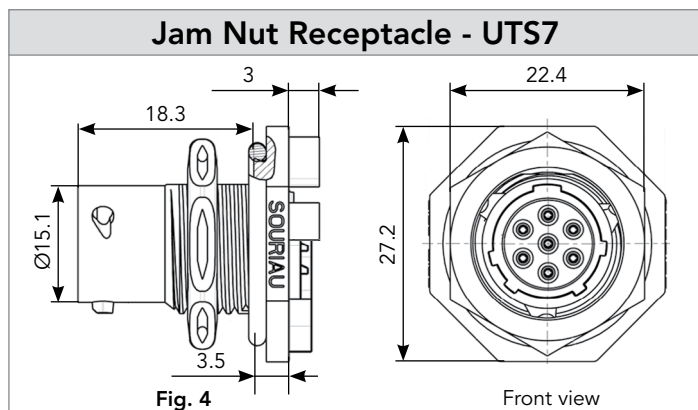
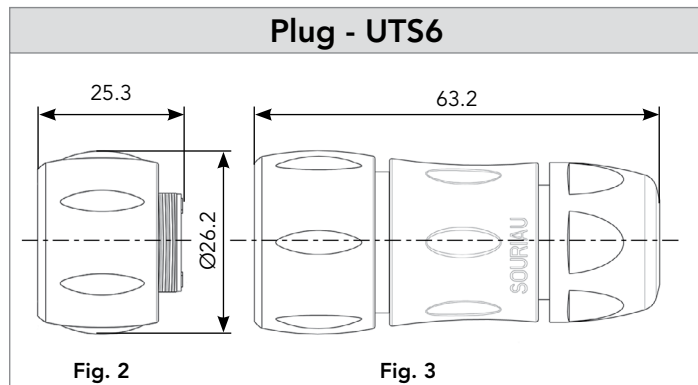
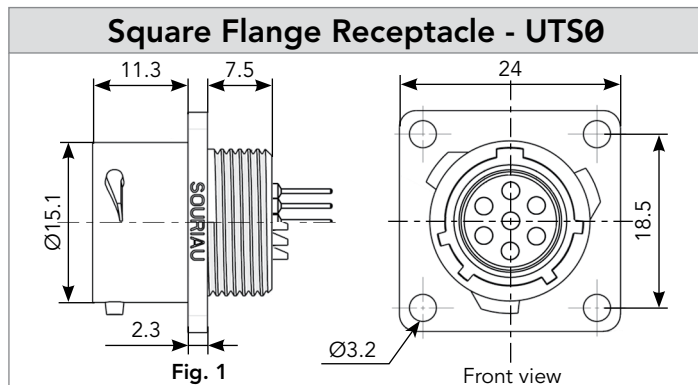
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 7x0.5	HAUTS0V10E7PST100	HAUTS0V10E7SST100
Right angle ending	Plug	0.5	H05 VV - F 7x0.5	HAUTS0V10E7PRA100	HAUTS0V10E7SRA100

(1) Other cable available on demand

* Other lengths available on demand

10E7/10D7 (Shell size 10, 7x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

10E7/10D7 (Shell size 10, 7x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS10DCG



IP68/69K

Metal terminal

Part number

UTS10DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS610DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS10DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005586A

Plug cap

85005595

Gasket



Part numbers

UTFD12B

Color Coding Rings

G for Green



Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS710CCRR

UTS610CCRR

UTS710CCRY

UTS610CCRY

UTS710CCRG

UTS610CCRG

10E7/10D7 (Shell size 10, 7x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	3.8 mm

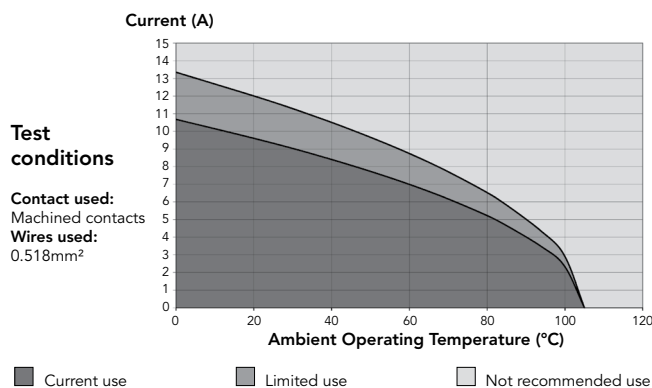
Electrical Characteristics

UL
6A 250V UL94 HB

CSA
6A 250V UL94 HB

IEC
7A 50V 1.5kV 3

UTS 10E7/10D7 Derating Curves



128 (Shell size 12, 8x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 103	Square flange receptacle	Without (Fig. 1)	UTS0128P	UTS0128S
	Free hanging receptacle	Cable gland and grommet (Fig. 2)	UTS1GJC128P	-
	Free hanging receptacle	Nut and grommet (Fig. 3)	UTS1GN128P	-
	M20 threaded receptacle	Panel gasket and nut (Fig. 8)	UTS7128PM20NUT	UTS7128SM20NUT
		Panel gasket (Fig. 9)	UTS7128PM20	UTS7128SM20
	Free hanging receptacle	Cable gland (Fig. 2)	UTS1JC128P	UTS1JC128S
	Plug	Without (Fig. 10)	UTS6128P	UTS6128S
	Plug	Cable gland and grommet (Fig. 11)	-	UTS6GJC128S
	Plug	Nut and grommet (Fig. 12)	-	UTS6GN128S
	Plug	Cable gland (Fig. 11)	UTS6JC128P	UTS6JC128S
	Jam nut receptacle	Without (Fig. 4)	UTS7128P	UTS7128S
	Jam nut receptacle	Cable gland and grommet (Fig. 7)	UTS7GJC128P	-
	Jam nut receptacle	Nut and grommet (Fig. 6)	UTS7GN128P	-
PCB contacts loaded see page 103	Jam nut receptacle	With stand off and hold down clip (Fig. 5)	UTS7128PSEK9	-

Possibilities of discrimination/keying methods see page 208

Overmoulded Cable Assembly Part Numbers

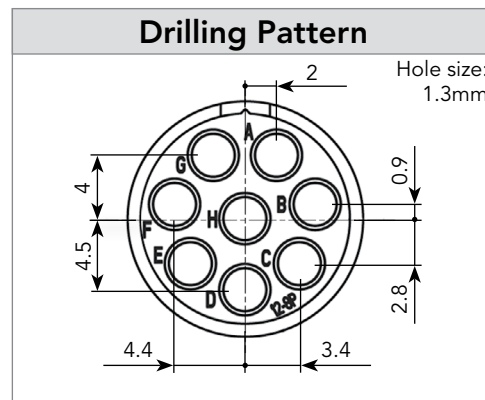
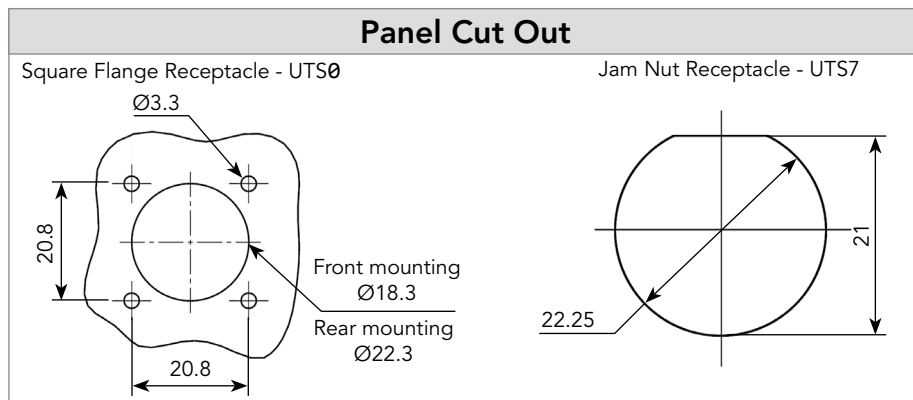
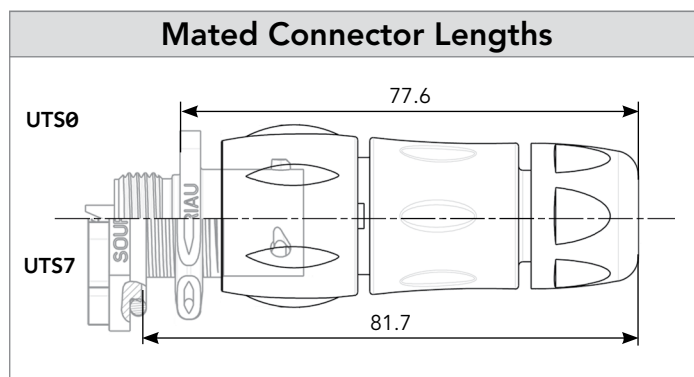
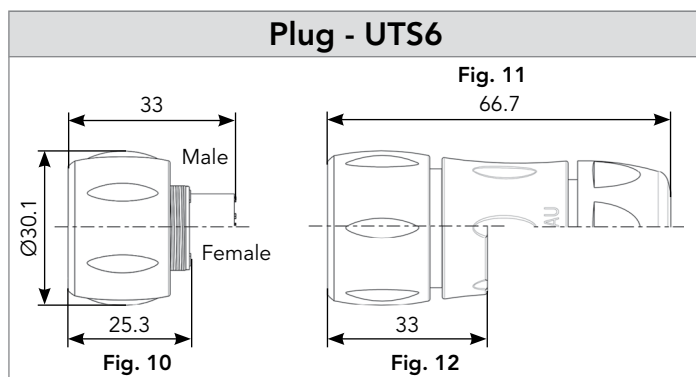
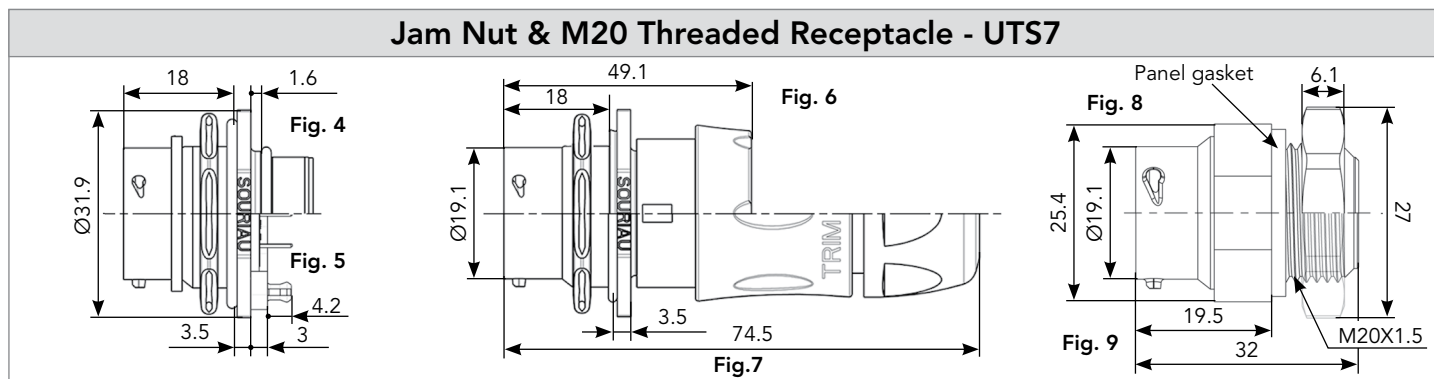
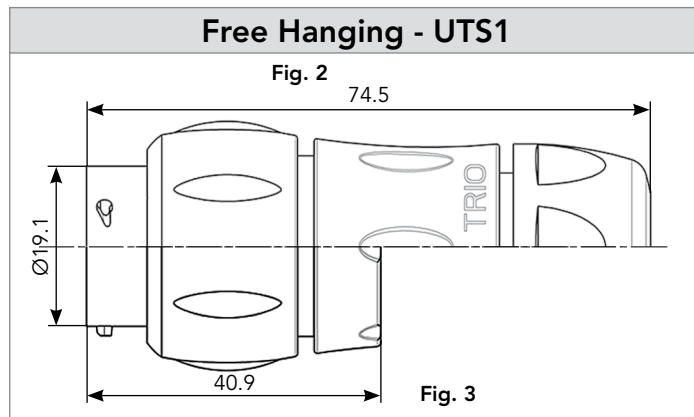
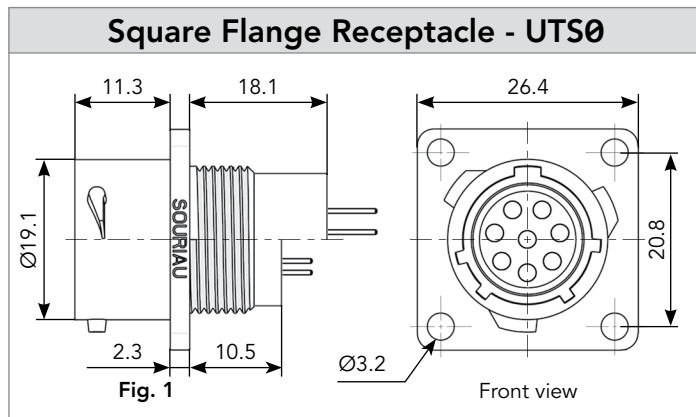
Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 8x1.5	HAUTS0V128PST100	HAUTS0V128SST100
Right angle ending	Plug	1.5	H05 VV - F 8x1.5	HAUTS0V128PRA100	HAUTS0V128SRA100

(1) Other cable available on demand

* Other lengths available on demand

128 (Shell size 12, 8x#16)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

128 (Shell size 12, 8x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS12DCG



IP68/69K

Metal terminal

Part number
UTS12DCGR

Handle (without Head)



Part number
SHANGLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS612DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS12DCGE

Plastic Protective Cap



Part numbers

Receptacle cap
85005587A

Plug cap
85005596

Gasket



Part numbers
UTFD13B

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yorK090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANGLES

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS712CCRR

UTS612CCRR

UTS712CCRY

UTS612CCRY

UTS712CCRG

UTS612CCRG



Handle



Head



Complete set

128 (Shell size 12, 8x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-
Hand-solder	Loaded in the connector	14-18	-	-	-	-

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: **SM20M1TK6** (3): For dimensions see page 168 Note: all dimensions are in mm

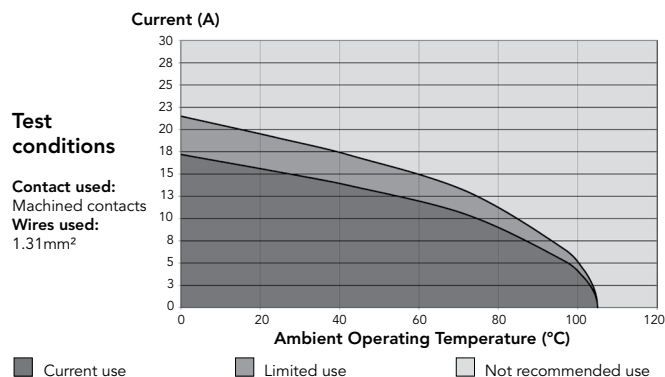
Electrical Characteristics

UL
10A 500V UL94 V-0

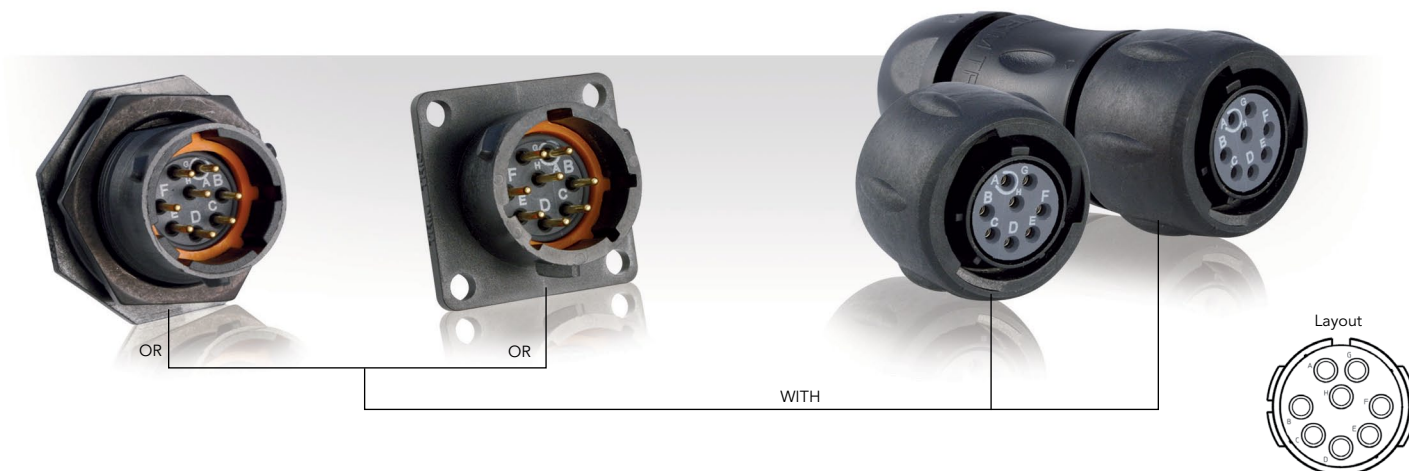
CSA
7A 500V UL94 V-0

IEC
10A 80V 1.5kV 3

UTS 128 Derating Curves



12E8/12D8 (Shell size 12, 8x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 107	Square flange receptacle	Without (Fig. 6)	UTS012E8P	UTS012E8S
	Plug	Without (Fig. 1)	UTS612E8P	UTS612E8S
		Cable gland (Fig. 2)	UTS6JC12E8P	UTS6JC12E8S
	Jam nut receptacle	Without (Fig. 3)	UTS712E8P	UTS712E8S
PCB contacts loaded see page 107	Square flange receptacle	Without (Fig. 7)	UTS012D8P	UTS012D8S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 4)	UTS712D8P32	UTS712D8S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS712D8P	UTS712D8S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

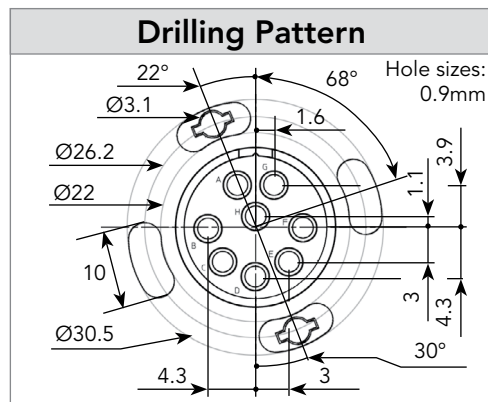
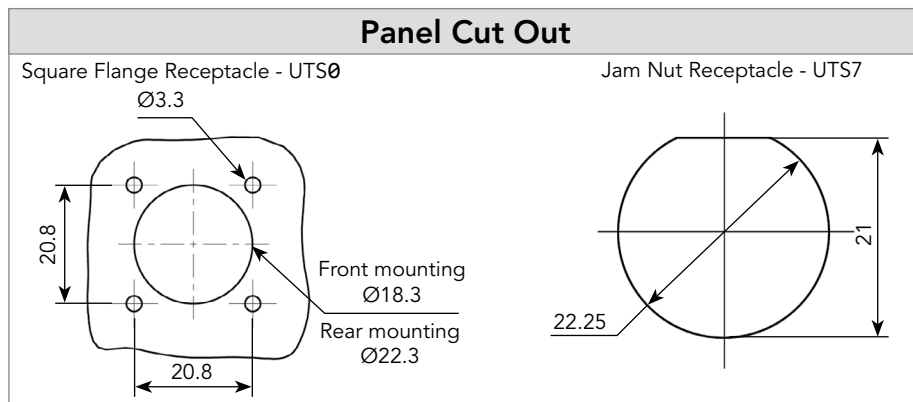
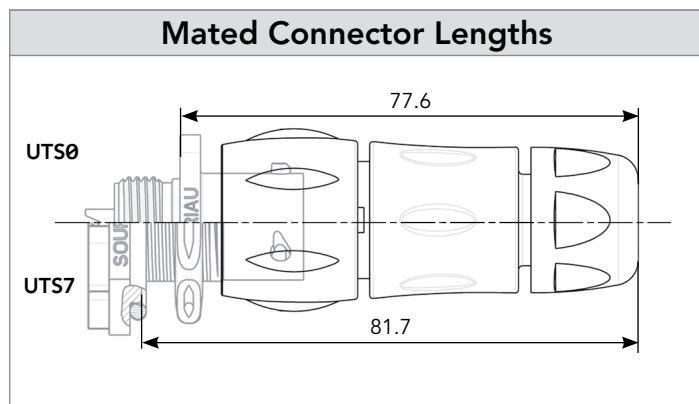
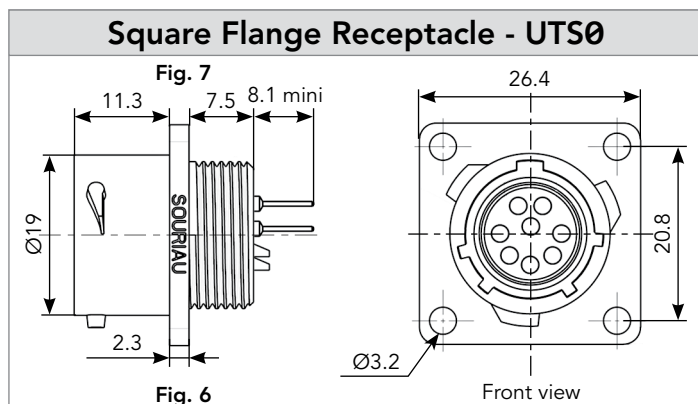
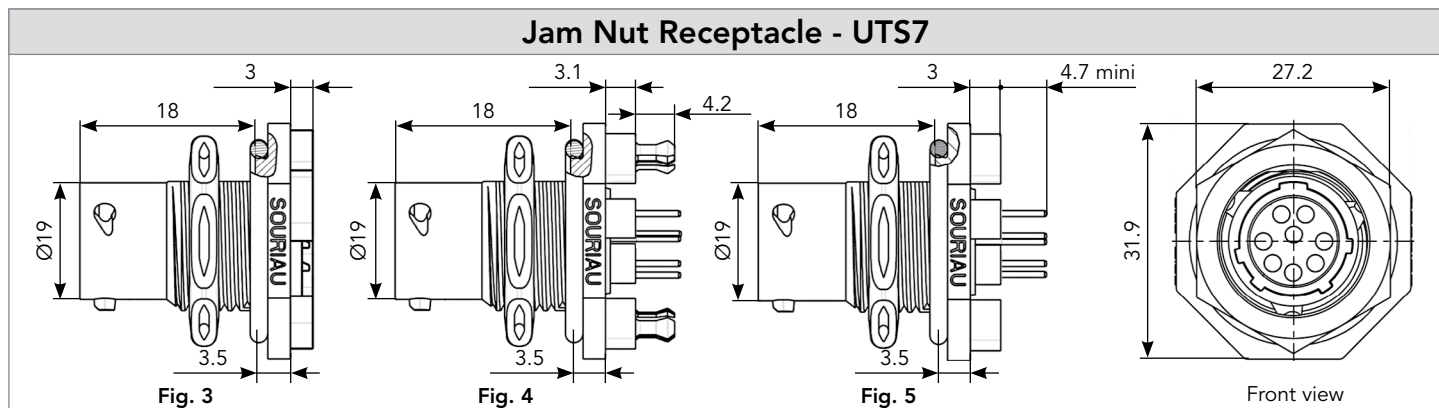
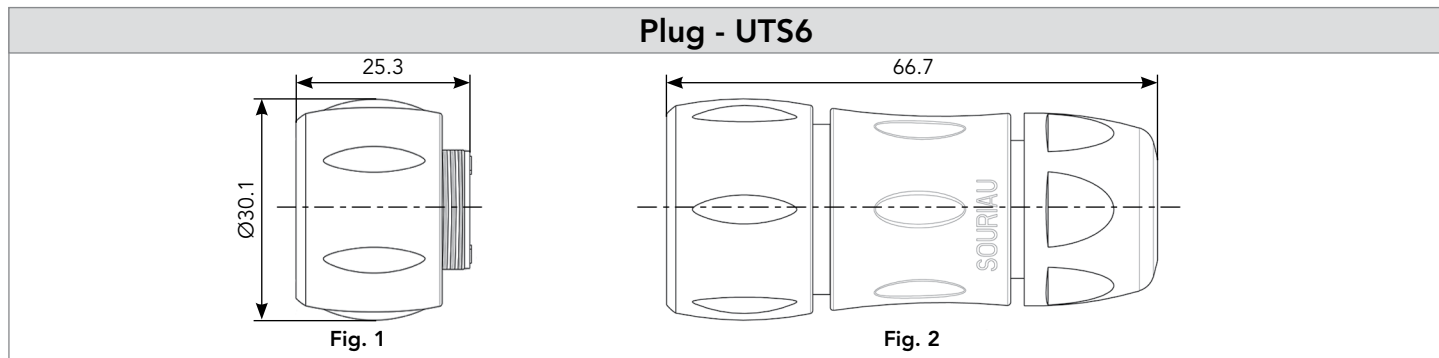
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 8x0.5	HAUTS0V12E8PST100	HAUTS0V12E8SST100
Right angle ending	Plug	0.5	H05 VV - F 8x0.5	HAUTS0V12E8PRA100	HAUTS0V12E8SRA100

(1) Other cable available on demand

* Other lengths available on demand

12E8/12D8 (Shell size 12, 8x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

12E8/12D8 (Shell size 12, 8x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS12DCG



IP68/69K

Metal terminal

Part number

UTS12DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS612DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS12DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005587A

Plug cap

85005596

Gasket



Part numbers

UTFD13B

Color Coding Rings

G for Green



Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS712CCRR

UTS612CCRR

UTS712CCRY

UTS612CCRY

UTS712CCRG

UTS612CCRG

12E8/12D8 (Shell size 12, 8x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

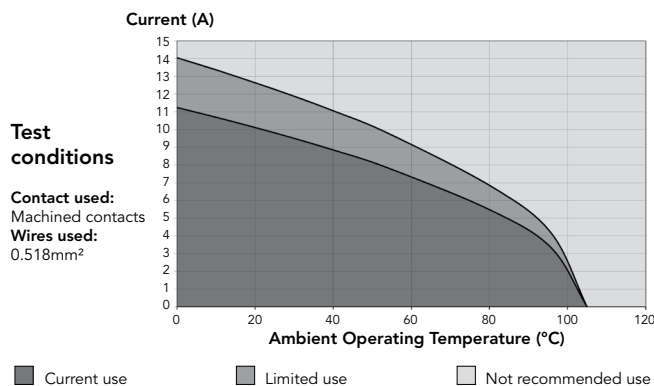
Electrical Characteristics

UL
4.5A 250V UL94 HB

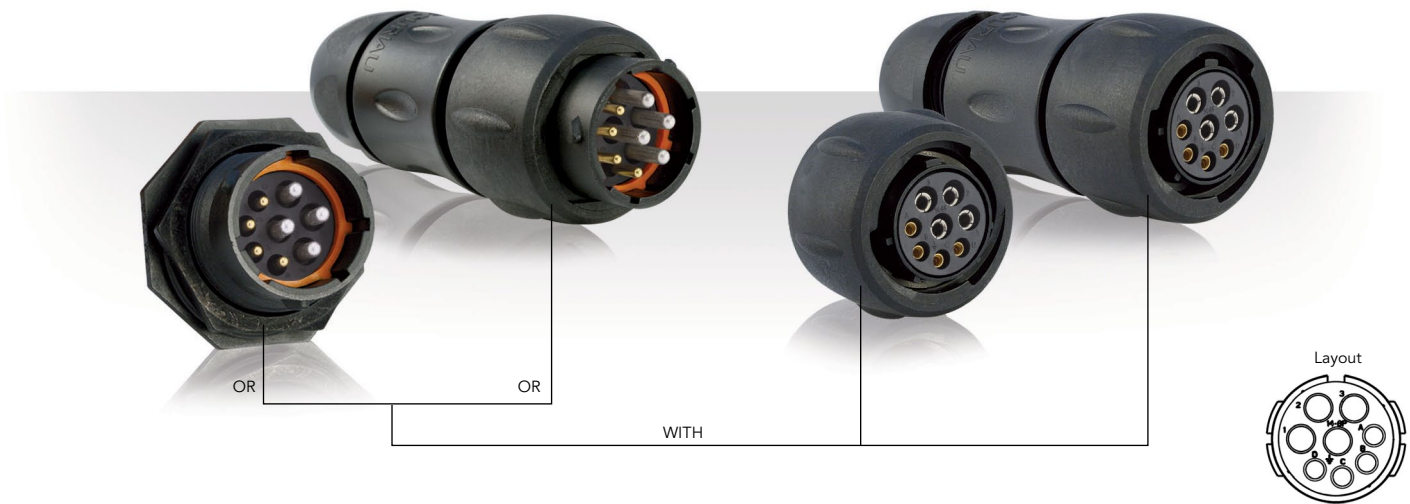
CSA
4.5A 250V UL94 HB

IEC
6A 32V 1.5kV 3

UTS 12E8/12D8 Derating Curves



148 (Shell size 14, 4x#16, 4x#12)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 111	Free hanging receptacle	Cable gland (Fig. 1)	UTS1JC148P	UTS1JC148S
	Plug	Without (Fig. 2)	UTS6148P	UTS6148S
	Plug	Cable gland (Fig. 3)	UTS6JC148P	UTS6JC148S
	Jam nut receptacle	Without (Fig. 4)	UTS7148P	UTS7148S

148 (Shell size 14, 4x#16, 4x#12)

Dimensions

Free Hanging - UTS1

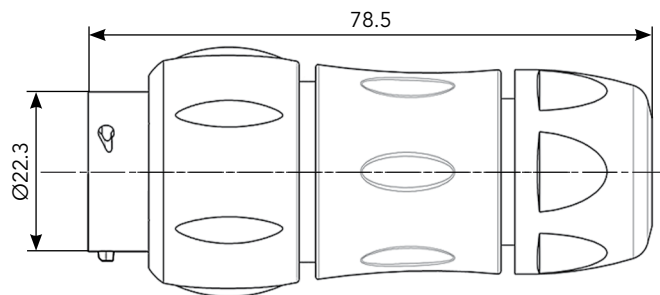


Fig. 1

Plug - UTS6

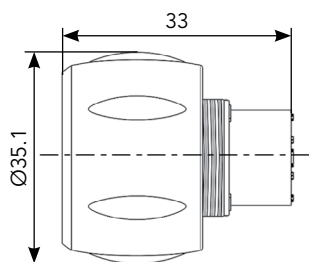


Fig. 2 Male

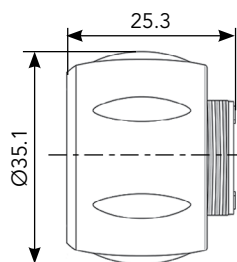


Fig. 2 Female

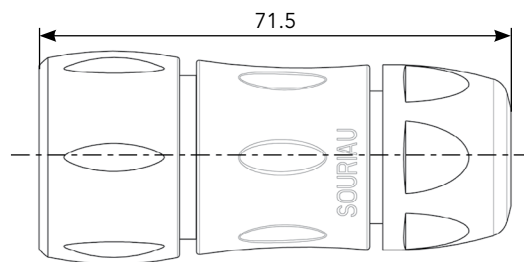


Fig. 3

Jam Nut Receptacle - UTS7

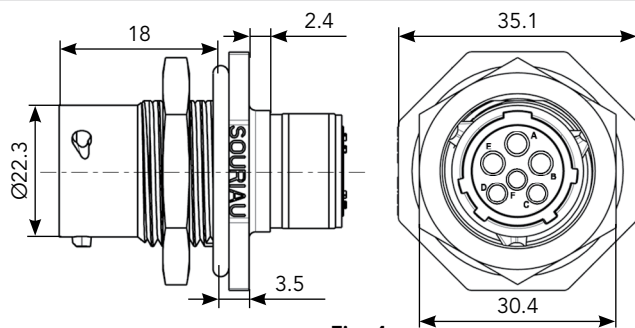
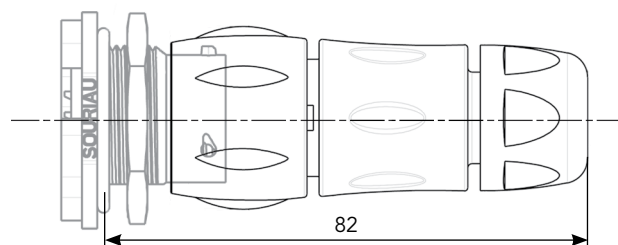


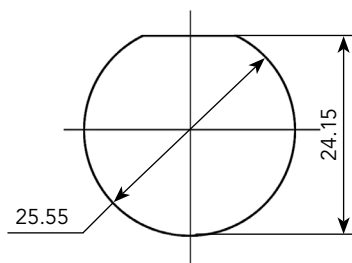
Fig. 4

Mated Connector Length - UTS7

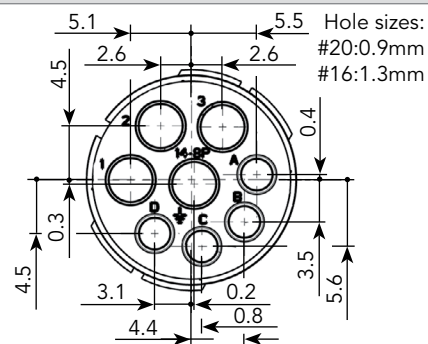


Panel Cut Out

Jam Nut Receptacle - UTS7



Drilling Pattern



Note: all dimensions are in mm

148 (Shell size 14, 4x#16, 4x#12)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS14DCG



IP68/69K

Metal terminal

Part number

UTS14DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle cap

Plug cap

85005588A

85005597

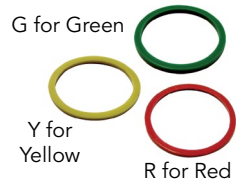
Gasket



Part numbers

UTFD14B

Color Coding Rings



Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

Extraction Tool



Part number
Extraction tool #12

51060210924



Part number
Extraction tool #16

VGE10078A

Crimp Tooling #16



Part number

SHANDLES (without Head)



Part number

TOOLKIT



HEAD (without Shandles)

Contacts	Contact size	Part number of head
RM/RC 28M1K	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K		S16RCM20*
RM/RC 20M13K		S16RCM20*
RM/RC 20M12K		S16RCM20*
RM/RC 16M23K		S16RCM16*
RM/RC 14M30K		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES



Handle

+



Head

=



Complete set

Crimp Tooling #12



Part number hand tool

M317



Part number
positioner + locator setting

VGE10078A

148 (Shell size 14, 4x#16, 4x#12)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
#12						
Crimp	Machined	22	82911457NA ⁽¹⁾	82911456A ⁽¹⁾	0.87	4.90
		20	82911459NA ⁽¹⁾	82911458A ⁽¹⁾	1.12	
		18	82911461NA ⁽¹⁾	82911460A ⁽¹⁾	1.42	
		16	82911463NA ⁽¹⁾	82911462A ⁽¹⁾	1.72	
		14	82911465NA ⁽¹⁾	82911464A ⁽¹⁾	2.22	
		12	82911467NA ⁽¹⁾	82911466A ⁽¹⁾	2.82	

(1): Example of plating, for other plating see page 164

(2): Loose piece contact available if putting L. Example: SM20ML1TK6

Note: all dimensions are in mm

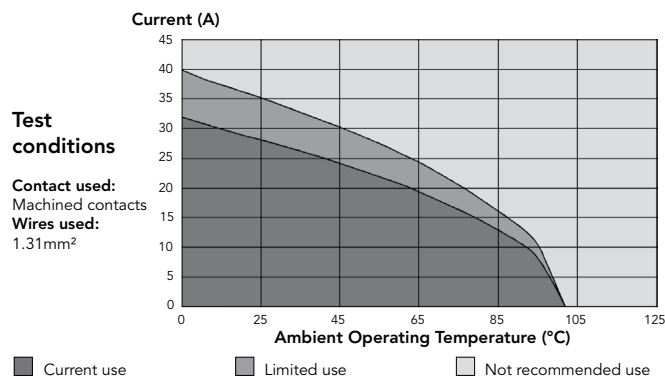
Electrical Characteristics

UL
25A 250V UL94 V-0

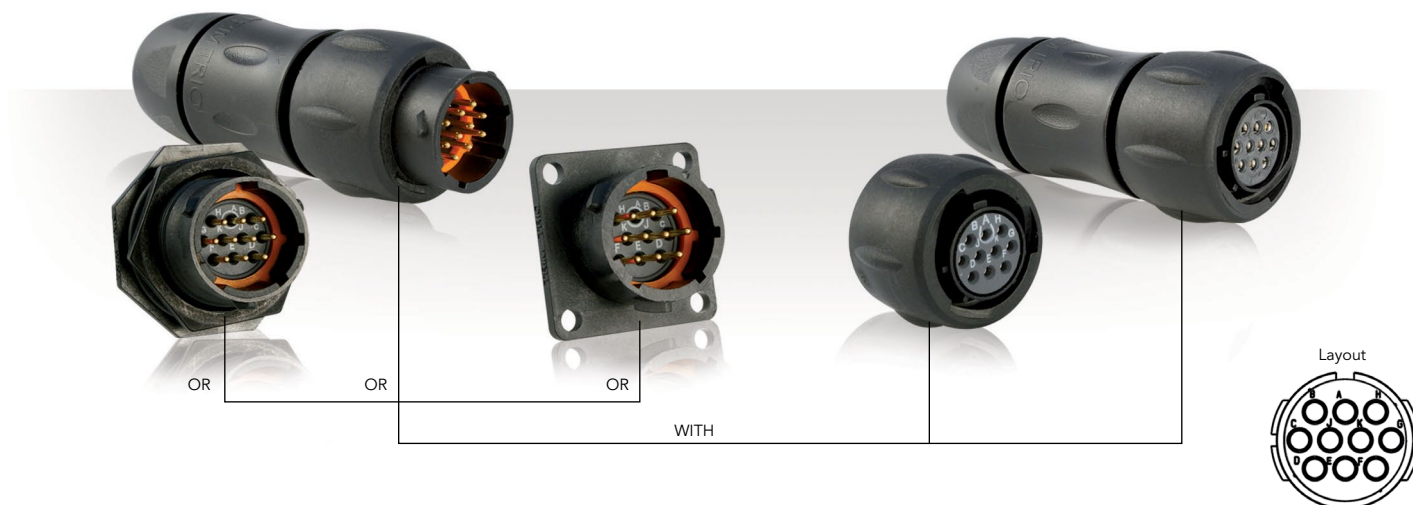
CSA
17A 230V UL94 V-0

IEC
17A 230V 1.5kV 3

UTS 148 Derating Curves



1210 - 12E10/12D10 (Shell size 12, 10x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 115	Free hanging receptacle	Cable gland (Fig. 1)	UTS1JC1210P	UTS1JC1210S
	Plug	Without (Fig. 2)	UTS61210P	UTS61210S
	Plug	Cable gland (Fig. 3)	UTS6JC1210P	UTS6JC1210S
	Jam nut receptacle	Without (Fig. 4)	UTS71210P	UTS71210S
Handsolder electrical contacts loaded see page 115	Square flange receptacle	Without (Fig. 6)	UTS012E10P	UTS012E10S
	Plug	Without (Fig. 2)	UTS612E10P	UTS612E10S
		Cable gland (Fig. 3)	UTS6JC12E10P	UTS6JC12E10S
	Jam nut receptacle	Without (Fig. 5)	UTS712E10P	UTS712E10S
PCB contacts loaded see page 115	Square flange receptacle	Without (Fig. 7)	UTS012D10P	UTS012D10S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTS712D10P32	UTS712D10S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTS712D10P	UTS712D10S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

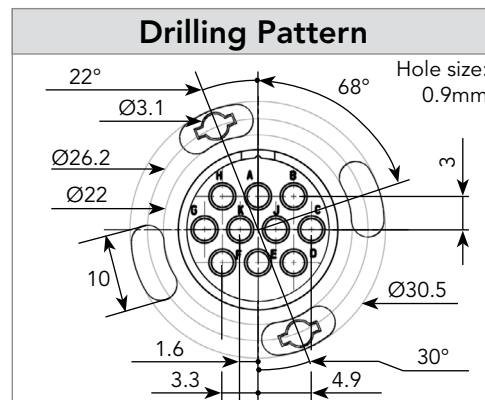
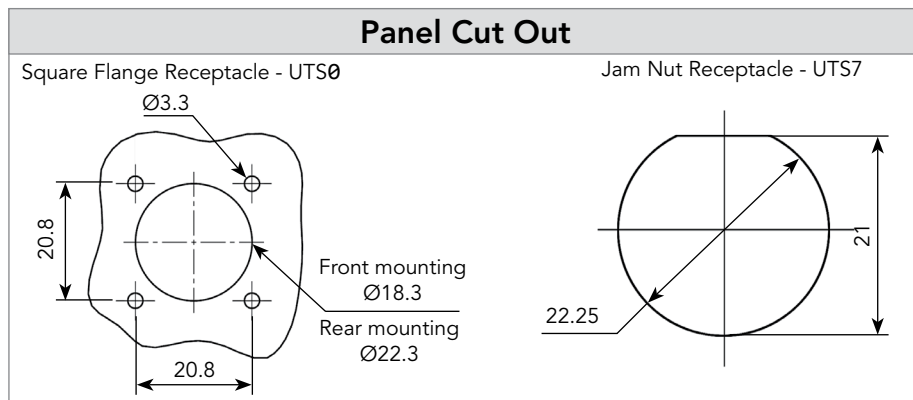
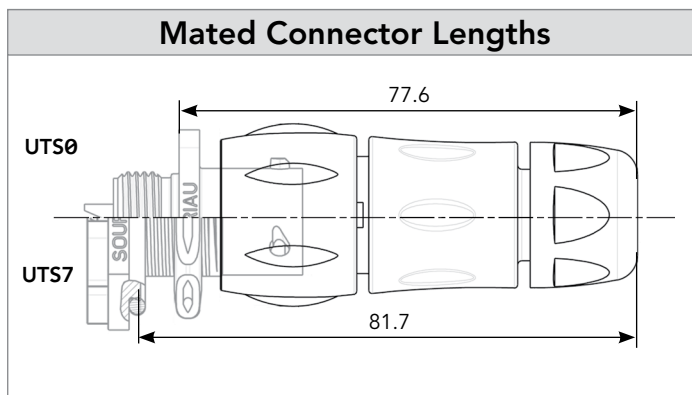
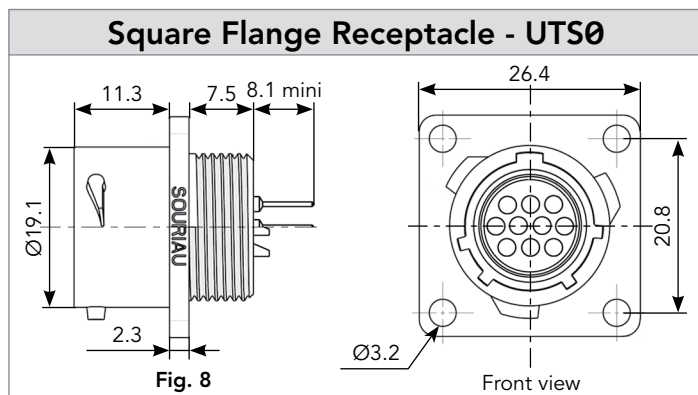
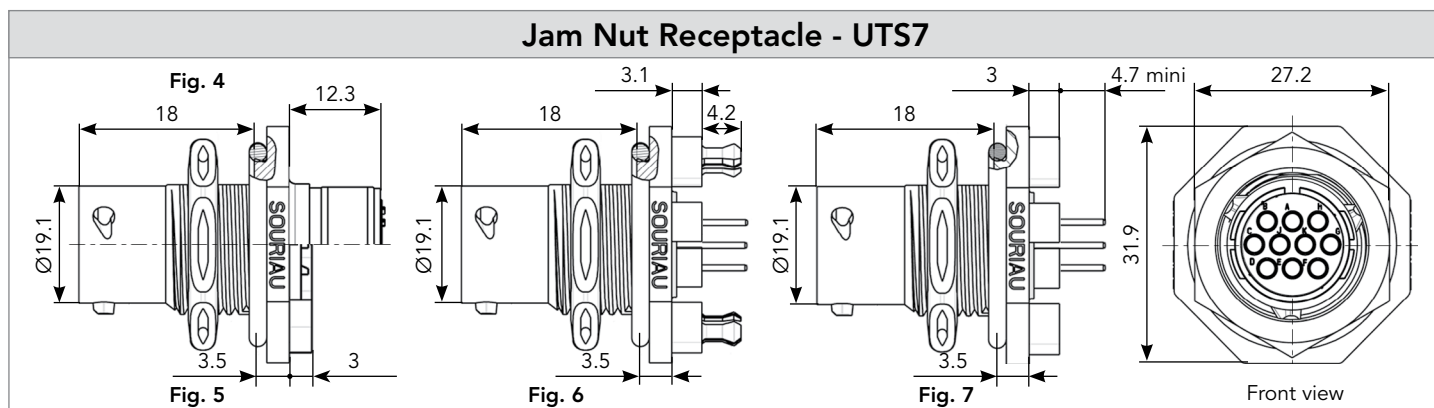
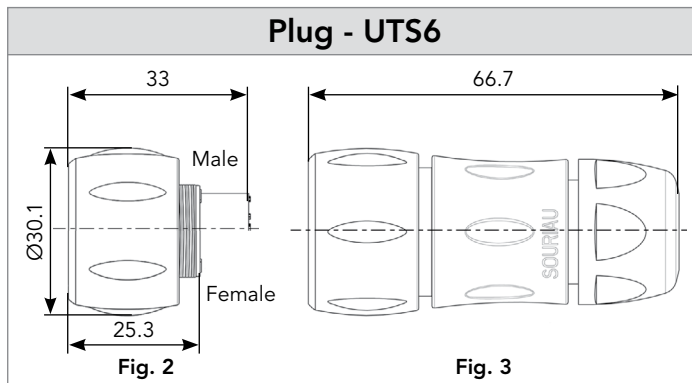
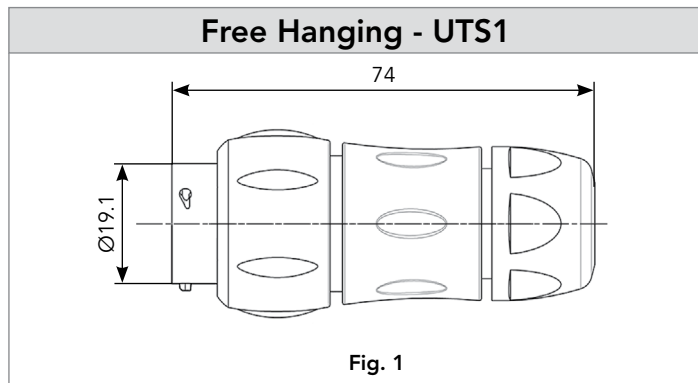
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 10x0.5	HAUTS0V1210PST100	HAUTS0V1210SST100
				HAUTS0V12E10PST100	HAUTS0V12E10SST100
Right angle ending	Plug	0.5	H05 VV - F 10x0.5	HAUTS0V1210PRA100	HAUTS0V1210SRA100
				HAUTS0V12E10PRA100	HAUTS0V12E10SRA100

(1) Other cable available on demand

* Other lengths available on demand

1210 - 12E10/12D10 (Shell size 12, 10x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

1210 - 12E10/12D10 (Shell size 12, 10x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS12DCG



IP68/69K

Metal terminal

Part number
UTS12DCGR

Handle (without Head)



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS612DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS12DCGE

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 24W3K ⁽¹⁾	Standard contacts #20 Ø 1mm	S20RCM*
RM/RC 20W3K ⁽¹⁾		S20RCM*
RM/RC 18W3K ⁽¹⁾		S20RCM*
SM/SC 24WL3S		S20SCM20*
SM/SC 20WL3S		S20SCM20*

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005587A	85005596

Gasket



Part numbers

UTFD13B

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles	Plugs
UTS712CCRR	UTS612CCRR
UTS712CCRY	UTS612CCRY
UTS712CCRG	UTS612CCRG

Extraction Tool #20



Part number
RX20D44



Handle

+



Head

=



Complete set

1210 - 12E10/12D10 (Shell size 12, 10x#20)

Contacts

#20	Contact type	Wire size		Part number		Max wire Ø	Max insulator Ø
		AWG	mm ²	Male	Female		
Crimp	Machined	26-24	0.13-0.25	RM24W3K ⁽¹⁾	RC24W3K ⁽¹⁾	0.80	1.60
		22-20	0.32-0.52	RM20W3K ⁽¹⁾	RC20W3K ⁽¹⁾	1.15	1.60
		20-18	0.50-0.93	RM18W3K ⁽¹⁾	RC18W3K ⁽¹⁾	1.30	2.10
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24W3TK6 ⁽²⁾	SC24W3TK6 ⁽²⁾	-	0.90-1.60
		26-24	0.13-0.25	SM24W3S26 ⁽²⁾	SC24W3S25 ⁽²⁾	-	0.90-1.60
		22-20	0.32-0.52	SM20W3TK6 ⁽²⁾	SC20W3TK6 ⁽²⁾	-	1.20-2.10
		22-20	0.32-0.52	SM20W3S26 ⁽²⁾	SC20W3S25 ⁽²⁾	-	1.20-2.10
PCB	Machined ⁽³⁾	-	-	RMW5016K	RCW5016K	-	-

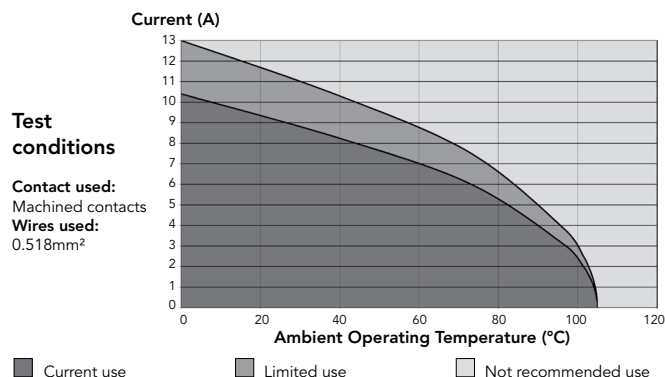
(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: **SM20WL3TK6** (3): For dimensions see page 168 Note: all dimensions are in mm

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	22 to 18	3.8 mm

Electrical Characteristics

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

UTS 1210 - 12E10/12D10 Derating Curves



1412 (Shell size 14, 12x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 119	Square flange receptacle	Without (Fig. 1)	UTS01412P	UTS01412S
	Free hanging receptacle	Cable gland and grommet (Fig. 2)	UTS1GJC1412P	-
	Free hanging receptacle	Nut and grommet (Fig. 3)	UTS1GN1412P	-
	Free hanging receptacle	Cable gland (Fig. 2)	UTS1JC1412P	UTS1JC1412S
	Plug	Without (Fig. 4)	UTS61412P	UTS61412S
	Plug	Cable gland and grommet (Fig. 5)	-	UTS6GJC1412S
	Plug	Nut and grommet (Fig. 6)	-	UTS6GN1412S
	Plug	Cable gland (Fig. 5)	UTS6JC1412P	UTS6JC1412S
	Jam nut receptacle	Without (Fig. 7)	UTS71412P	UTS71412S
	Jam nut receptacle	Cable gland and grommet (Fig. 9)	UTS7GJC1412P	-
	Jam nut receptacle	Nut and grommet (Fig. 8)	UTS7GN1412P	-
PCB contacts supplied separately see page 119	Square flange receptacle	Without (Fig. 1)	UTS01412P	UTS01412S
	Jam nut receptacle	Without (Fig. 7)	UTS71412P	UTS71412S

Possibilities of discrimination/keying methods see page 208

Overmoulded Cable Assembly Part Numbers

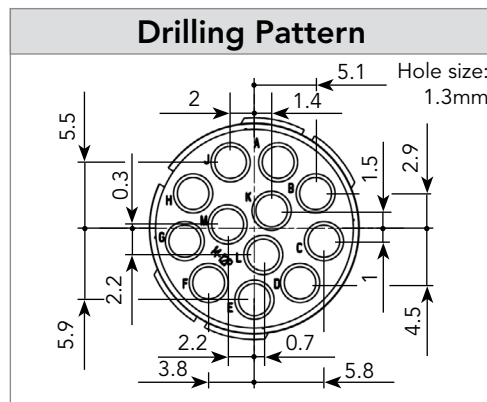
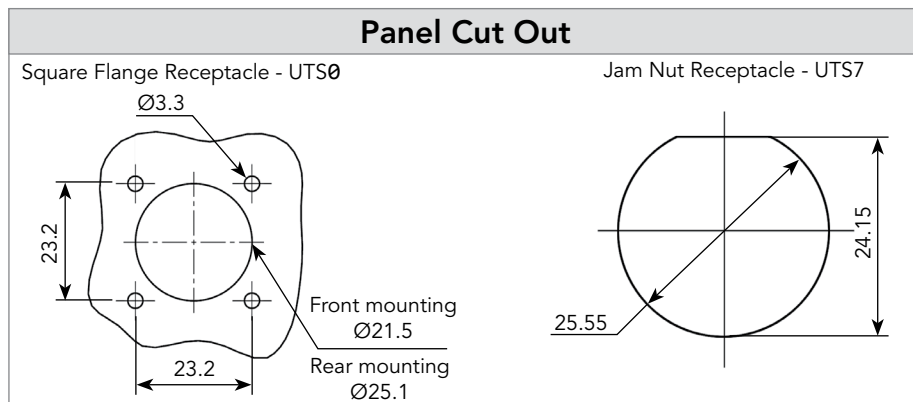
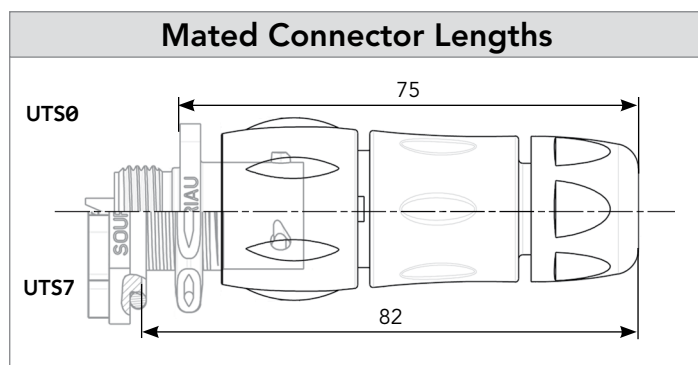
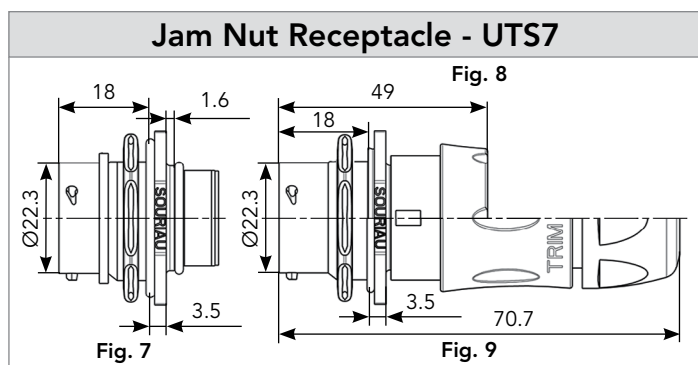
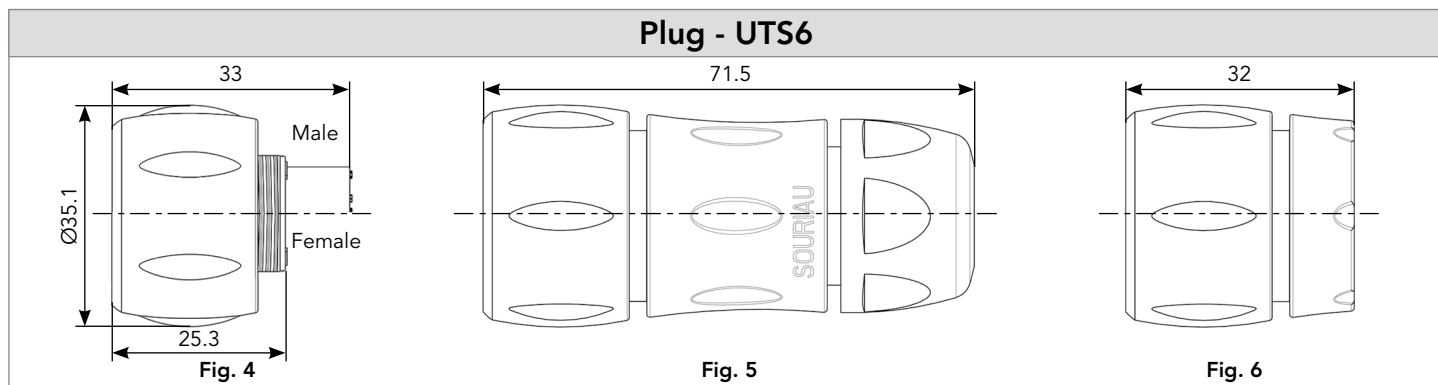
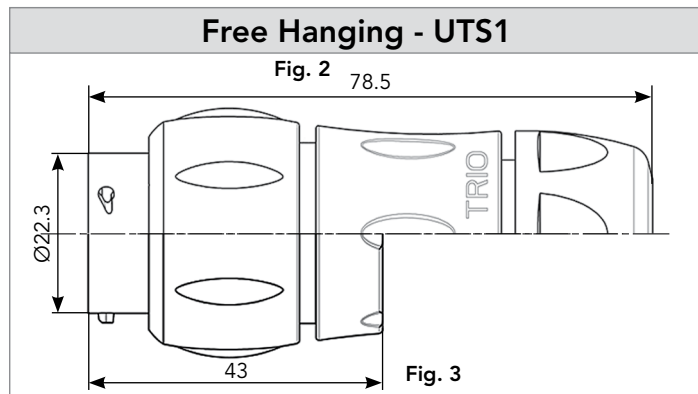
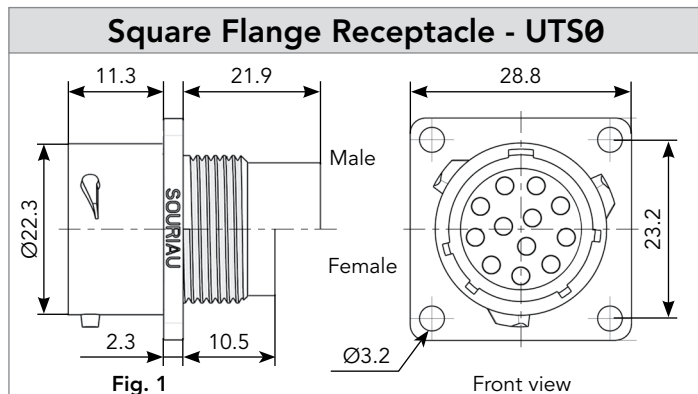
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 12x1.5	HAUTS0V1412PST100	HAUTS0V1412SST100
Right angle ending	Plug	1.5	H05 VV - F 12x1.5	HAUTS0V1412PRA100	HAUTS0V1412SRA100

(1) Other cable available on demand

* Other lengths available on demand

1412 (Shell size 14, 12x#16)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

1412 (Shell size 14, 12x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS14DCG



IP68/69K

Metal terminal

Part number
UTS14DCGR

Handle (without Head)



Part number
SHANGLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005588A	85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for Yellow

R for Red

Part numbers

Receptacles	Plugs
UTS714CCRR	UTS614CCRR
UTS714CCRY	UTS614CCRY
UTS714CCRG	UTS614CCRG

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yorK090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANGLES



Handle



Head



Complete set

1412 (Shell size 14, 12x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-
Hand-solder	Loaded in the connector	14-18	-	-		

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: **SM20ML1TK6** (3): For dimensions see page 168 Note: all dimensions are in mm

12

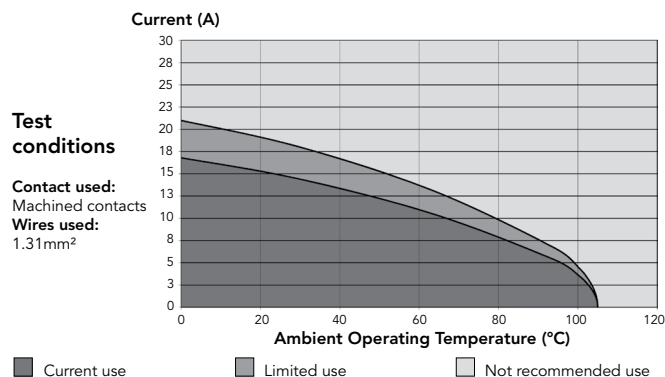
Electrical Characteristics

UL
10A 600V UL94 V-0

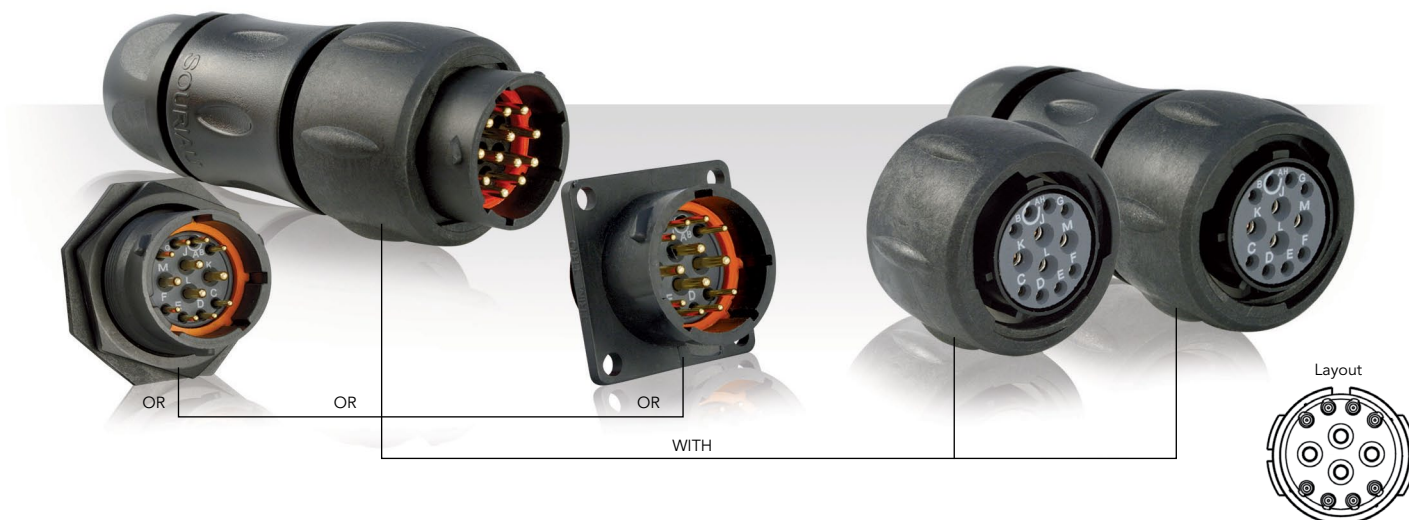
CSA
7A 600V UL94 V-0

IEC
10A 63V 1.5kV 3

UTS 1412 Derating Curves



14E12/14D12 (Shell size 14, 8x#20, 4x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 123	Square flange receptacle	Without (Fig. 6)	UTS014E12P	UTS014E12S
	Plug	Without (Fig. 1)	UTS614E12P	UTS614E12S
		Cable gland (Fig. 2)	UTS6JC14E12P	UTS6JC14E12S
	Jam nut receptacle	Without (Fig. 3)	UTS714E12P	UTS714E12S
PCB contacts loaded see page 123	Square flange receptacle	Without (Fig. 6)	UTS014D12P	UTS014D12S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 4)	UTS714D12P32	UTS714D12S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS714D12P	UTS714D12S

Possibilities of discrimination/keying methods see page 208

Sealed unmatred

Overmoulded Cable Assembly Part Numbers

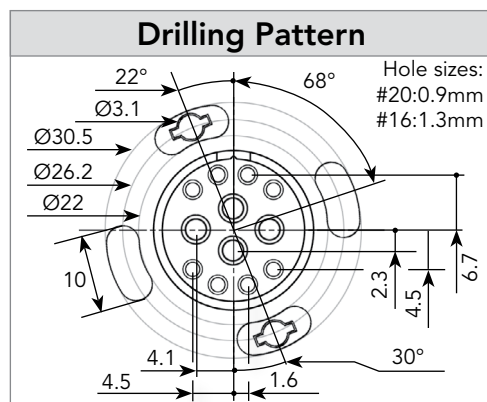
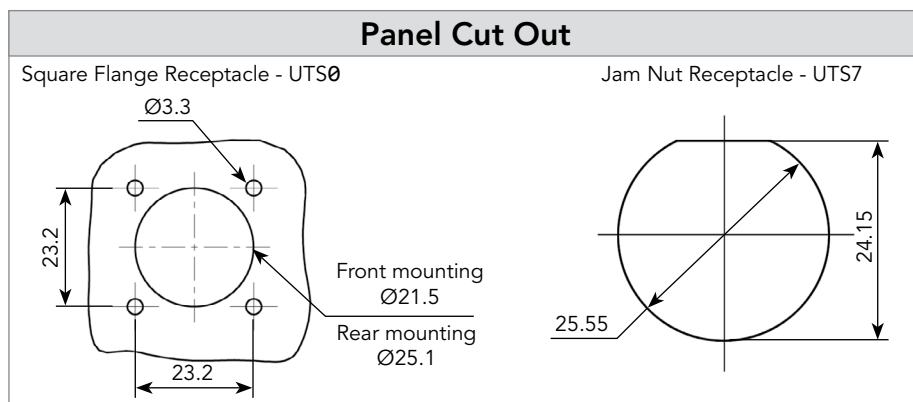
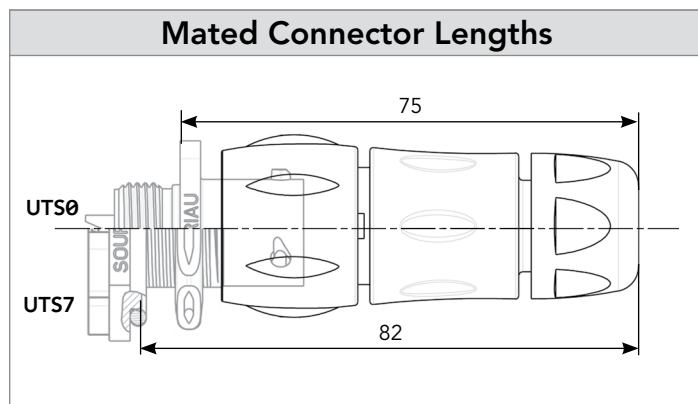
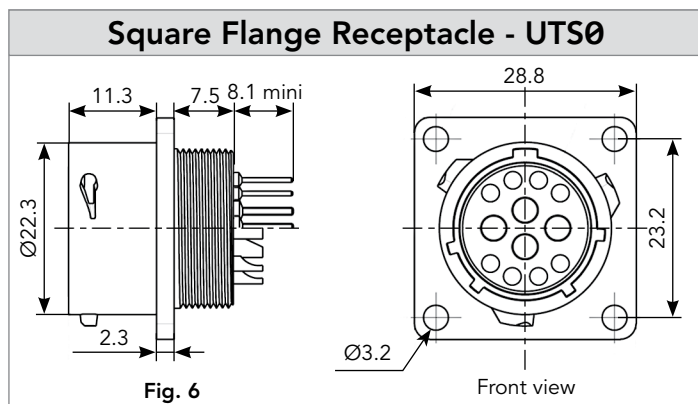
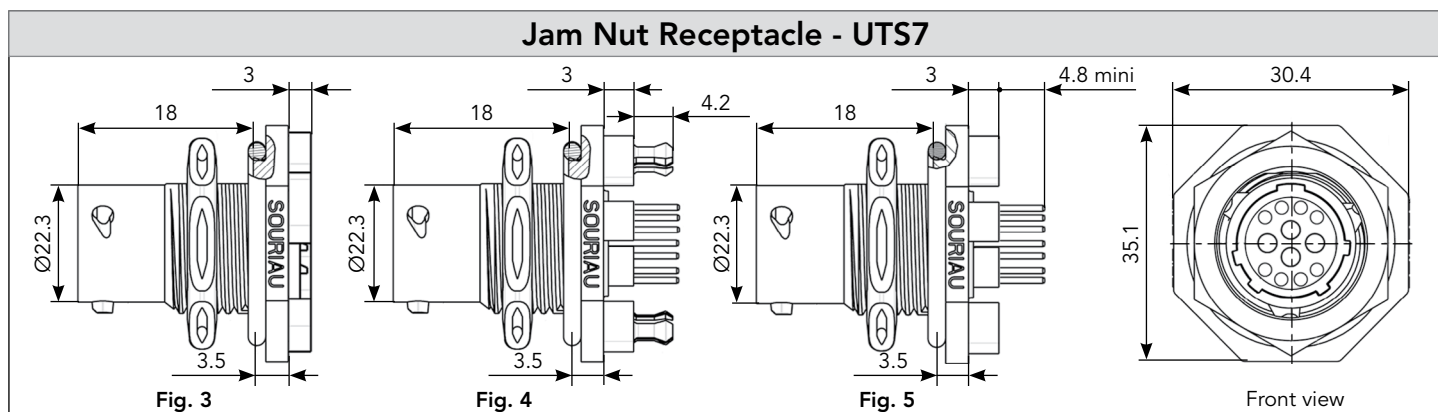
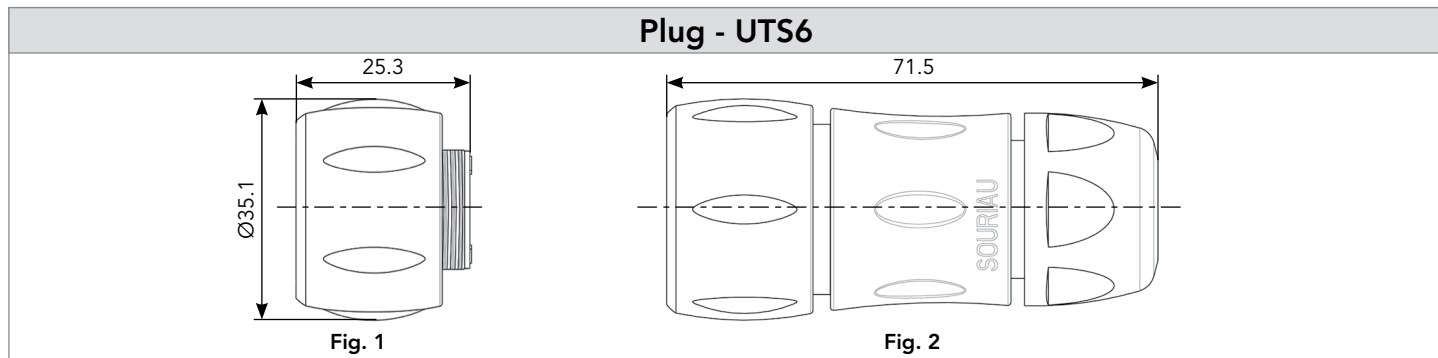
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 12x1.5	HAUTS0V14E12PST100	HAUTS0V14E12SST100
Right angle ending	Plug	1.5	H05 VV - F 12x1.5	HAUTS0V14E12PRA100	HAUTS0V14E12SRA100

(1) Other cable available on demand

* Other lengths available on demand

14E12/14D12 (Shell size 14, 8x#20, 4x#16)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

14E12/14D12 (Shell size 14, 8x#20, 4x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS14DCG



IP68/69K

Metal terminal

Part number

UTS14DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005588A

Plug cap

85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

14E12/14D12 (Shell size 14, 8x#20, 4x#16)

Contacts

#16	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 to 14	5.0 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-
#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	3.8 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

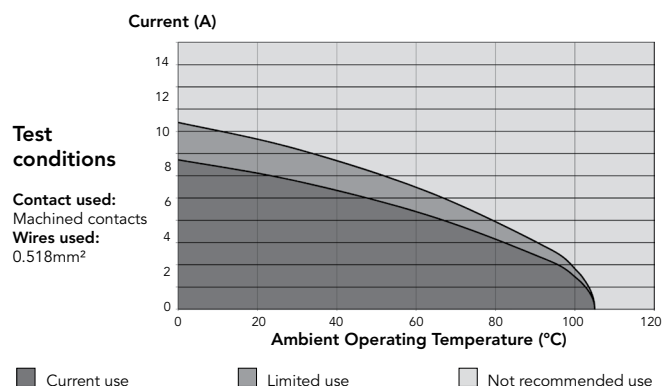
Electrical Characteristics

UL
4.5A 250V UL94 HB

CSA
4.5A 250V UL94 HB

IEC
4A 50V 1.5kV 3

UTS 14E12/14D12 Derating Curves



1492 (Shell size 14, 12x#16)



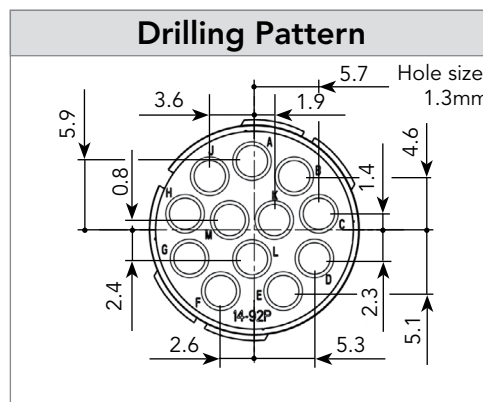
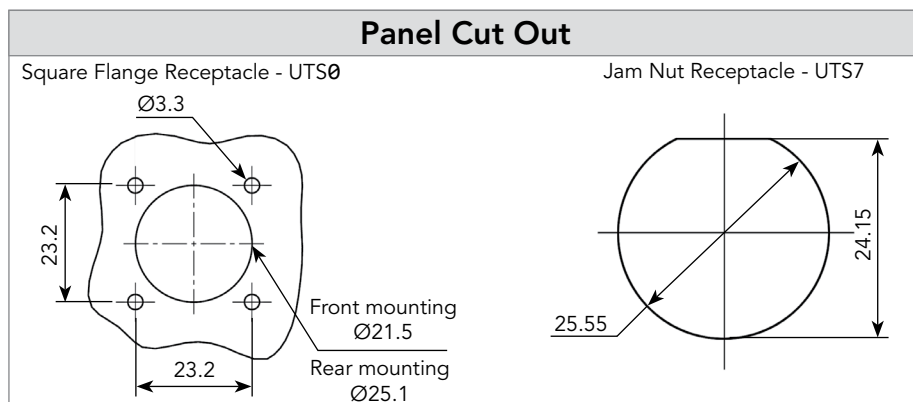
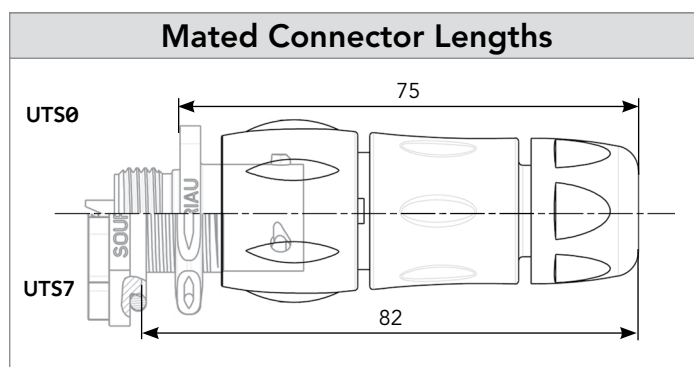
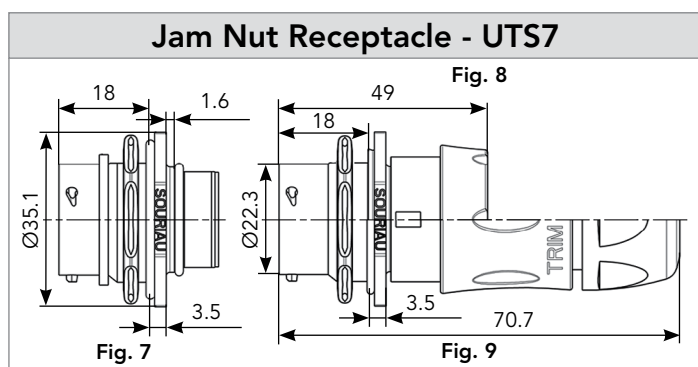
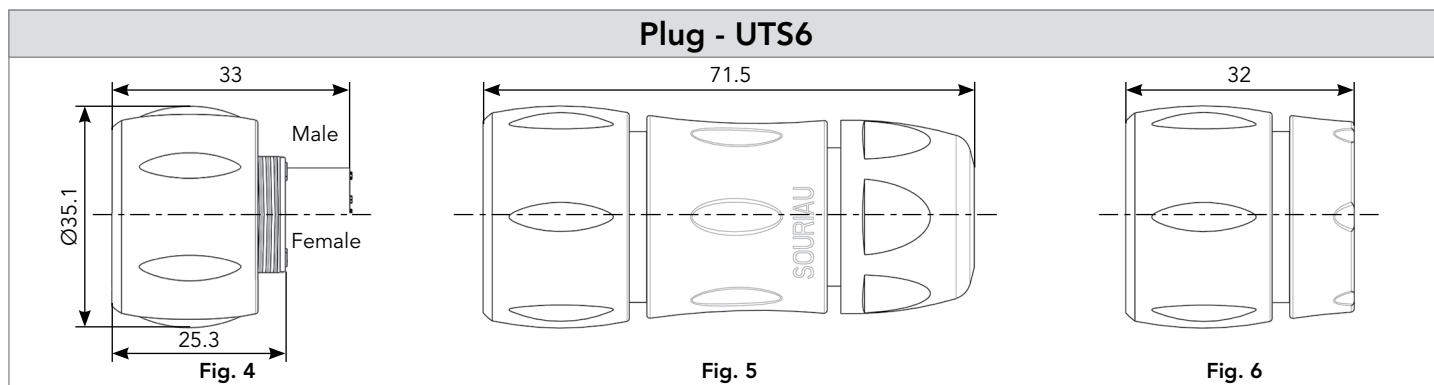
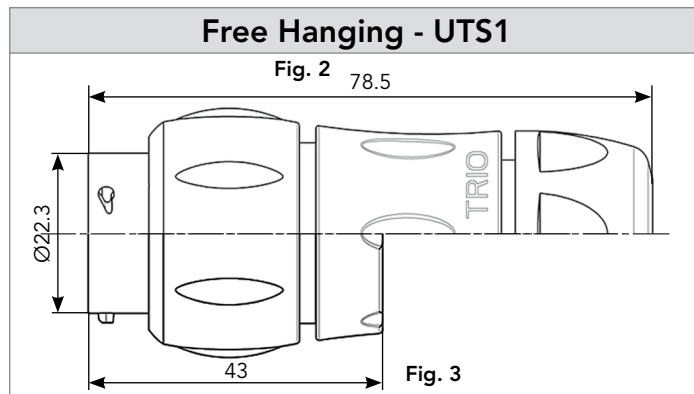
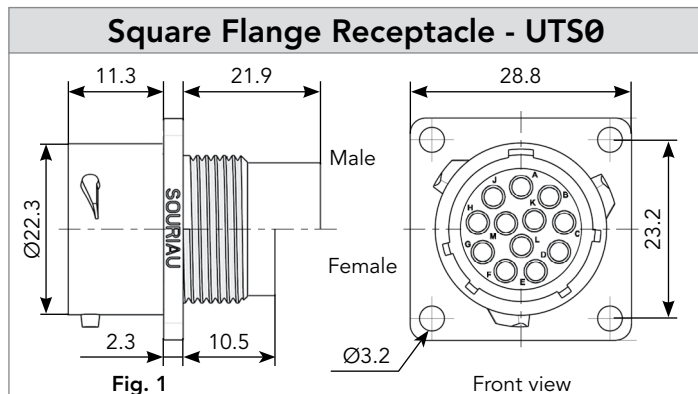
Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 127	Square flange receptacle	Without (Fig. 1)	UTS01492P	UTS01492S
	Free hanging receptacle	Cable gland and grommet (Fig. 2)	UTS1GJC1492P	-
	Free hanging receptacle	Nut and grommet (Fig. 3)	UTS1GN1492P	-
	Free hanging receptacle	Cable gland (Fig. 2)	UTS1JC1492P	UTS1JC1492S
	Plug	Without (Fig. 4)	UTS61492P	UTS61492S
	Plug	Cable gland and grommet (Fig. 5)	-	UTS6GJC1492S
	Plug	Nut and grommet (Fig. 6)	-	UTS6GN1492S
	Plug	Cable gland (Fig. 5)	UTS6JC1492P	UTS6JC1492S
	Jam nut receptacle	Without (Fig. 7)	UTS71492P	UTS71492S
	Jam nut receptacle	Cable gland and grommet (Fig. 9)	UTS7GJC1492P	-
	Jam nut receptacle	Nut and grommet (Fig. 8)	UTS7GN1492P	-
PCB contacts supplied separately see page 127	Square flange receptacle	Without (Fig. 1)	UTS01492P	UTS01492S
	Jam nut receptacle	Without (Fig. 7)	UTS71492P	UTS71492S

Possibilities of discrimination/keying methods see page 208

1492 (Shell size 14, 12x#16)

Dimensions



Note: all dimensions are in mm

1492 (Shell size 14, 12x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS14DCG



IP68/69K

Metal terminal

Part number
UTS14DCGR

Handle (without Head)



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle cap
85005588A

Plug cap
85005597

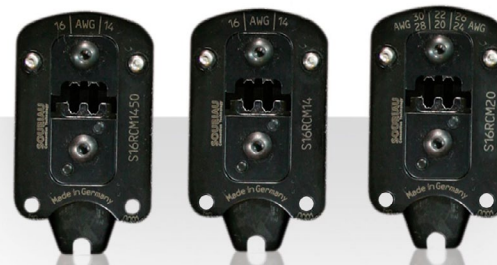
Gasket



Part numbers

UTFD14B

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yorK090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANDLES

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG



Handle



Head



Complete set

1492 (Shell size 14, 12x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-
Hand-solder	Loaded in the connector	14-18	-	-		

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: **SM20ML1TK6** (3): For dimensions see page 168 Note: all dimensions are in mm

12

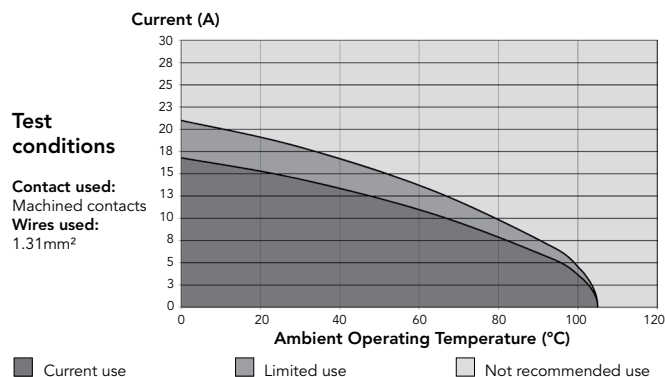
Electrical Characteristics

UL
10A 600V UL94 V-0

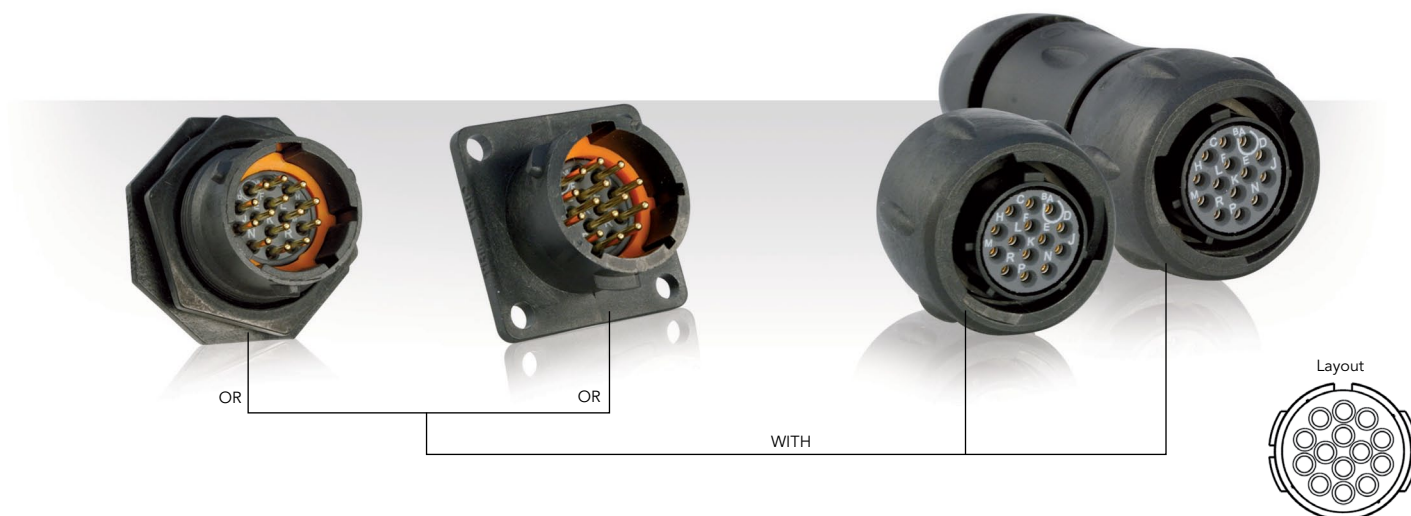
CSA
7A 600V UL94 V-0

IEC
10A 63V 1.5kV 3

UTS 1492 Derating Curves



12E14/12D14 (Shell size 12, 14x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 131	Square flange receptacle	Without (Fig. 6)	UTS012E14P	UTS012E14S
	Plug	Without (Fig. 1)	UTS612E14P	UTS612E14S
		Cable gland (Fig. 2)	UTS6JC12E14P	UTS6JC12E14S
	Jam nut receptacle	Without (Fig. 3)	UTS712E14P	UTS712E14S
PCB contacts loaded see page 131	Square flange receptacle	Without (Fig. 7)	UTS012D14P	UTS012D14S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 4)	UTS712D14P32	UTS712D14S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS712D14P	UTS712D14S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 14x0.5	HAUTS0V12E14PST100	HAUTS0V12E14SST100
Right angle ending	Plug	0.5	H05 VV - F 14x0.5	HAUTS0V12E14PRA100	HAUTS0V12E14SRA100

(1) Other cable available on demand

* Other lengths available on demand

12E14/12D14 (Shell size 12, 14x#20)

Dimensions

Plug - UTS6

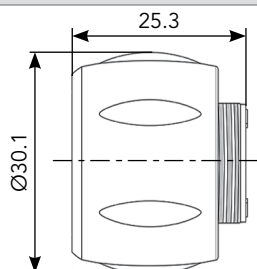


Fig. 1

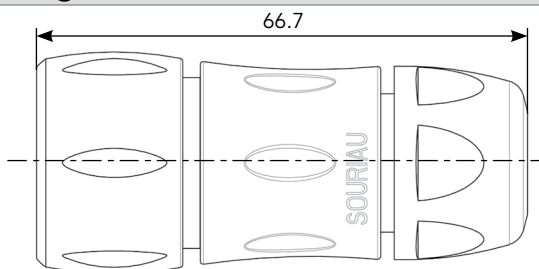


Fig. 2

Jam Nut Receptacle - UTS7

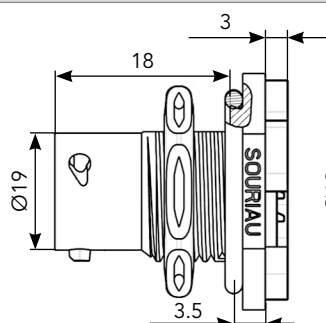


Fig. 3

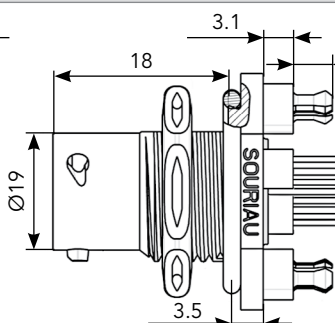


Fig. 4

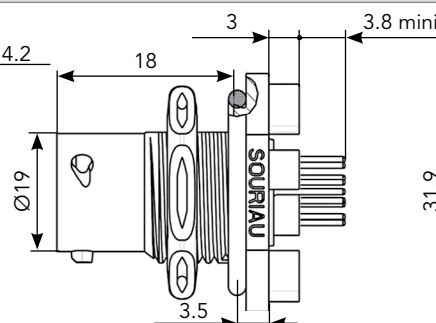
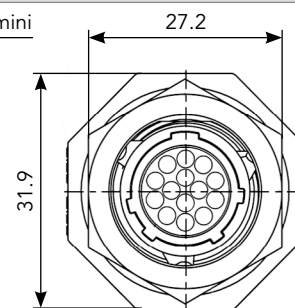


Fig. 5



Front view

Square Flange Receptacle - UTS0

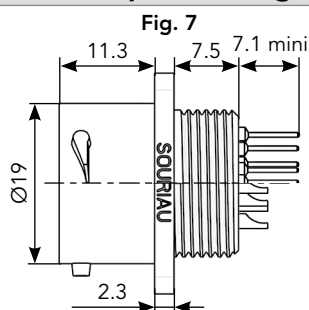
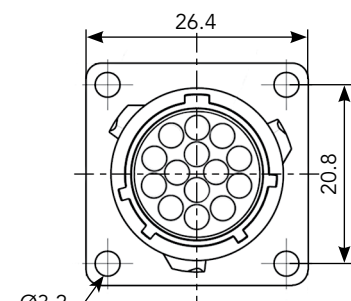
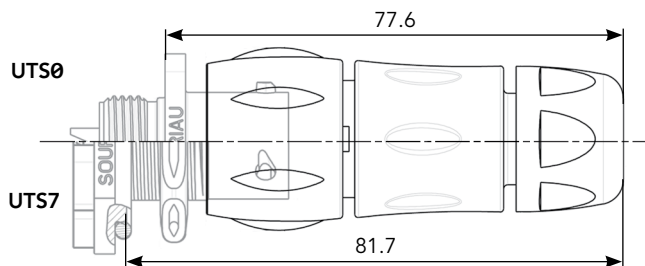


Fig. 6



Front view

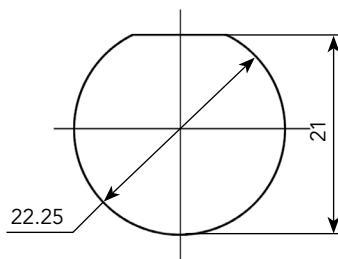
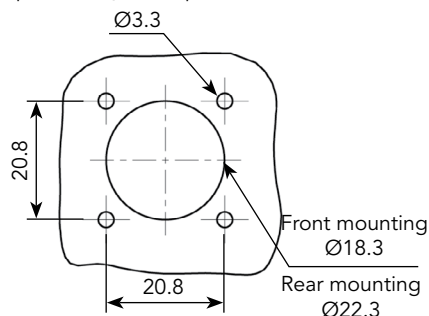
Mated Connector Lengths



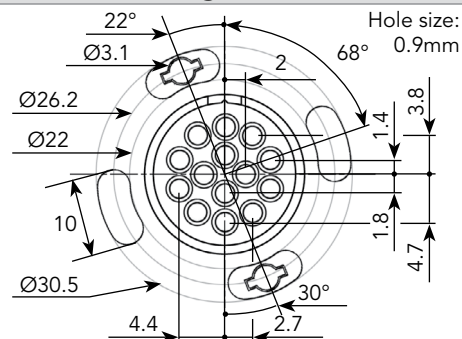
Panel Cut Out

Square Flange Receptacle - UTS0

Jam Nut Receptacle - UTS7



Drilling Pattern



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

12E14/12D14 (Shell size 12, 14x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS12DCG



IP68/69K

Metal terminal

Part number

UTS12DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS612DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS12DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005587A

Plug cap

85005596

Gasket



Part numbers

UTFD13B

Color Coding Rings

G for Green


Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS712CCRR

UTS612CCRR

UTS712CCRY

UTS612CCRY

UTS712CCRG

UTS612CCRG

12E14/12D14 (Shell size 12, 14x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Hand solder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

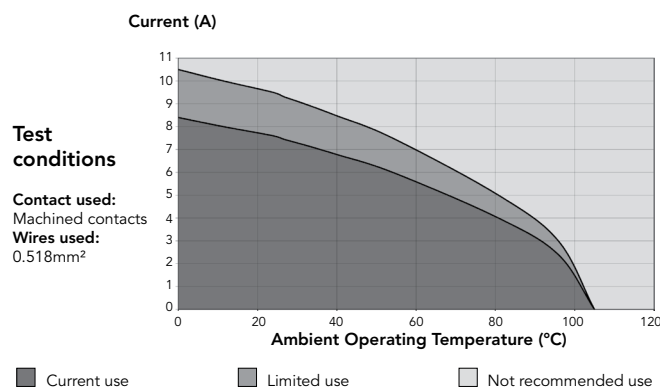
Electrical Characteristics

UL
4.5A 250V UL94 HB

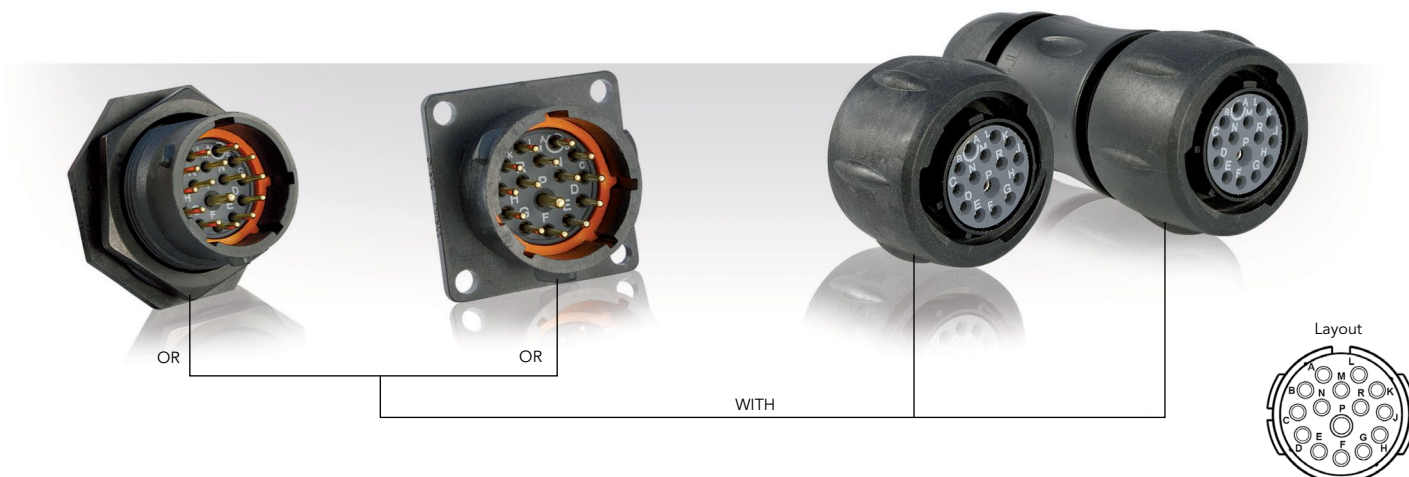
CSA
4.5A 250V UL94 HB

IEC
5A 32V 1.5kV 3

UTS 12E14/12D14 Derating Curves



14E15/14D15 (Shell size 14, 14x#20, 1x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 135	Square flange receptacle	Without (Fig. 6)	UTS014E15P	UTS014E15S
	Plug	Without (Fig. 1)	UTS614E15P	UTS614E15S
		Cable gland (Fig. 2)	UTS6JC14E15P	UTS6JC14E15S
	Jam nut receptacle	Without (Fig. 3)	UTS714E15P	UTS714E15S
PCB contacts loaded see page 135	Square flange receptacle	Without (Fig. 7)	UTS014D15P	UTS014D15S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 4)	UTS714D15P32	UTS714D15S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS714D15P	UTS714D15S

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 15x1.5	HAUTS0V14E15PST100	HAUTS0V14E15SST100
Right angle ending	Plug	1.5	H05 VV - F 15x1.5	HAUTS0V14E15PRA100	HAUTS0V14E15SRA100

(1) Other cable available on demand

* Other lengths available on demand

Dimensions

Fig. 1

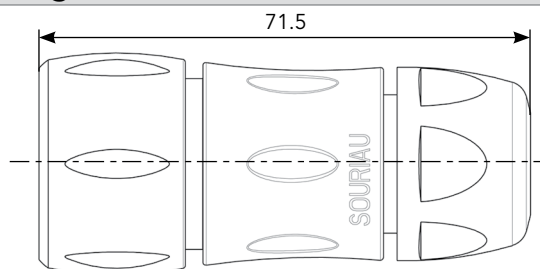


Fig. 2

Fig. 3

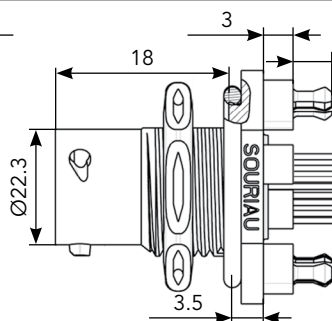


Fig. 4

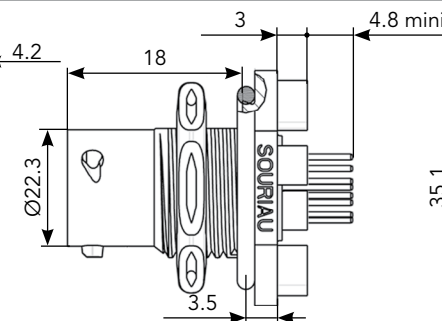
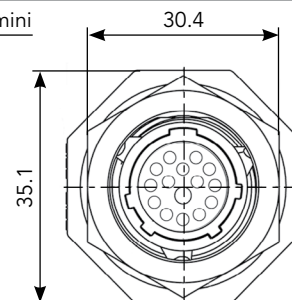


Fig. 5



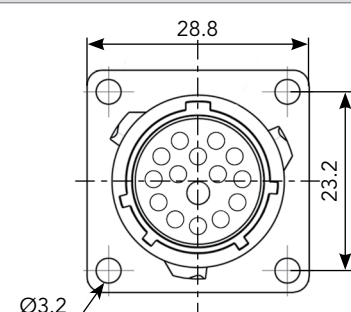
Front view

Fig. 7

Technical drawing of the front view of a mechanical part. The drawing shows a cylindrical component with a diameter of $\varnothing 22.3$. Key dimensions and features include:

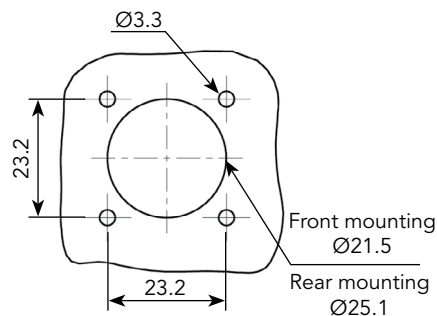
- A central longitudinal slot with a width of 2.3.
- A threaded section on the right with a diameter of 7.5 and a length of 8.1.
- A small feature (possibly a pin or screw) located on the left side, with a distance of 11.3 from the left edge to its center.
- A dimension of 7.5 is indicated for the distance from the left edge to the start of the threaded section.
- A small dimension of 8.1 is shown at the far right end of the part.

Fig. 6

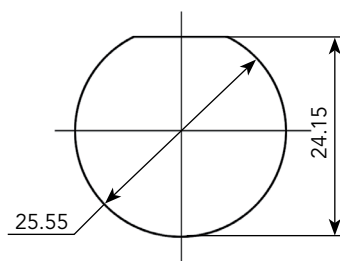


Front view

Square Flange Receptacle - UTS0



Jam Nut Receptacle - UTS7



Hole sizes:
#20: 0.9mm
#16: 1.3mm

The technical drawing shows a circular plate with various dimensions and features:

- Overall Dimensions:**
 - Total width: 6.1
 - Total height: 5.7
 - Radius: 2.5
 - Inner radius: 2.7
- Angles:**
 - Top-left chamfer angle: 22°
 - Bottom-right chamfer angle: 30°
 - Internal radial angle: 68°
- Distances and Spacing:**
 - Distance from top edge to centerline: 3.5
 - Distance from left edge to centerline: 1.9
 - Distance between hole centers (horizontal): 3.2
 - Distance between hole centers (vertical): 5.5
 - Distance from bottom edge to centerline: 5.1
 - Distance from right edge to centerline: 5.3
 - Distance from bottom edge to outer circle: 6.2
 - Distance from top edge to outer circle: 1
 - Distance from left edge to outer circle: 0.3
 - Distance from centerline to outer circle: 2.8
- Holes:**
 - A central hole.
 - Eight surrounding holes arranged in two concentric circles.
 - Two additional holes located near the bottom-left and bottom-right edges.

Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

14E15/14D15 (Shell size 14, 14x#20, 1x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS14DCG



IP68/69K

Metal terminal

Part number

UTS14DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005588A

Plug cap

85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

14E15/14D15 (Shell size 14, 14x#20, 1x#16)

Contacts

#16	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 to 14	5.0 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-
#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	3.8 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

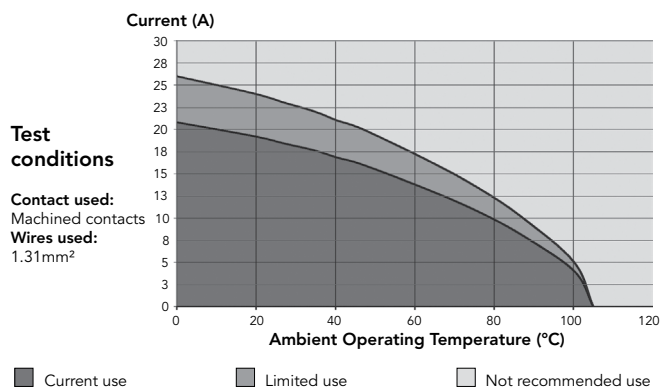
Electrical Characteristics

UL
12A 600V UL94 HB

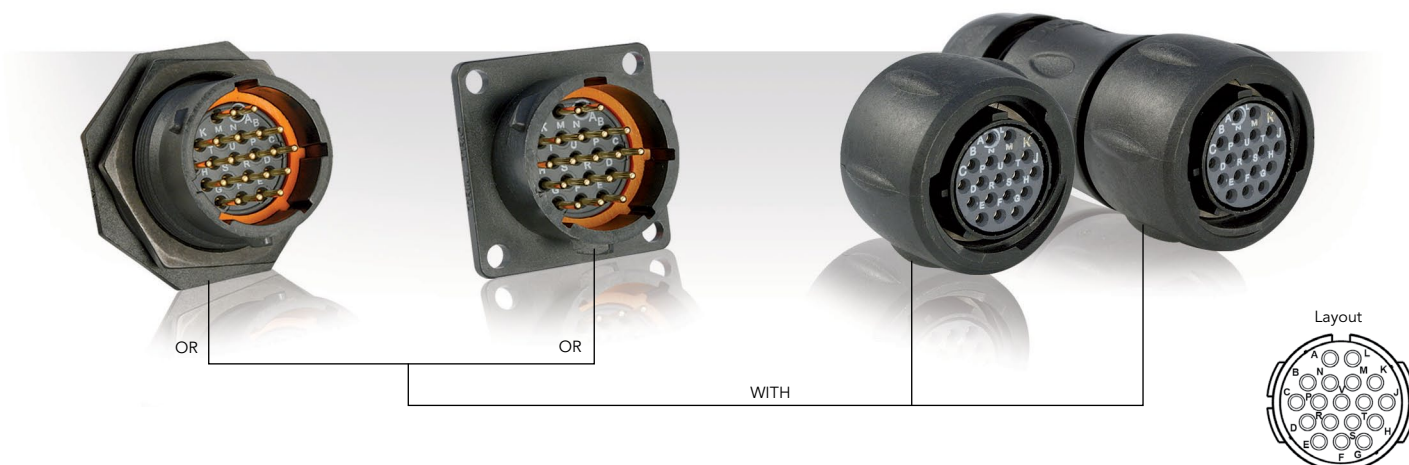
CSA
12A 600V UL94 HB

IEC
4A 50V 1.5kV 3

UTS 14E15/14D15 Derating Curves



14E18/14D18 (Shell size 14, 18x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see page 139	Square flange receptacle	Without (Fig. 6)	UTS014E18P	UTS014E18S
	Plug	Without (Fig. 1)	UTS614E18P	UTS614E18S
		Cable gland (Fig. 2)	UTS6JC14E18P	UTS6JC14E18S
	Jam nut receptacle	Without (Fig. 3)	UTS714E18P	UTS714E18S
PCB contacts loaded see page 139	Square flange receptacle	Without (Fig. 7)	UTS014D18P	UTS014D18S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 4)	UTS714D18P32	UTS714D18S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTS714D18P	UTS714D18S

Possibilities of discrimination/keying methods see page 208

Sealed unmatred

Overmoulded Cable Assembly Part Numbers

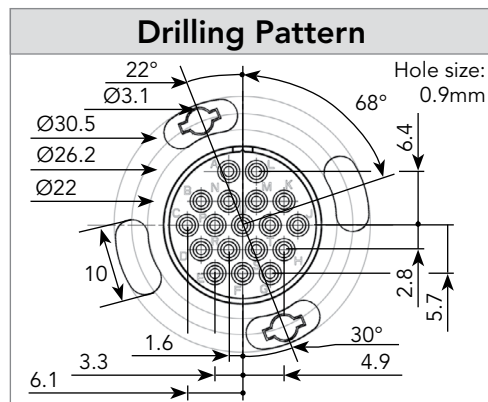
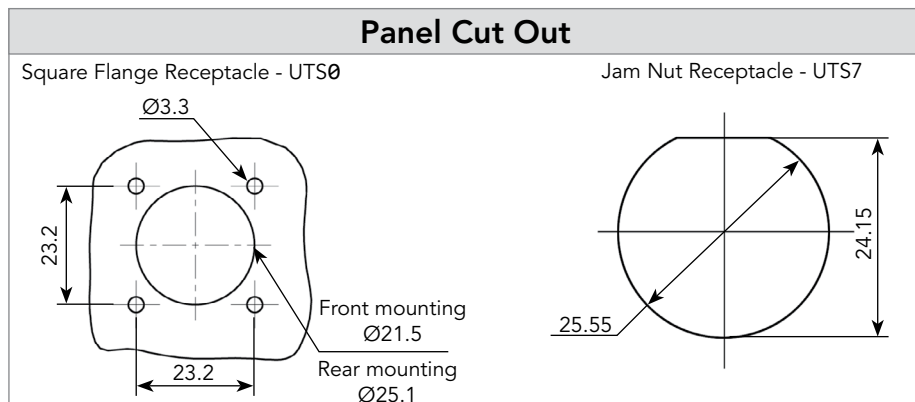
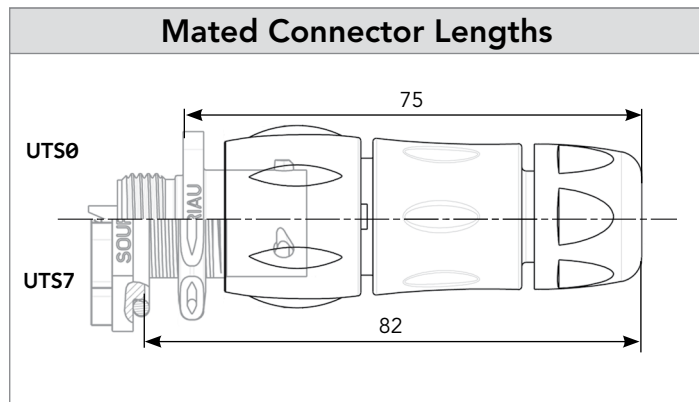
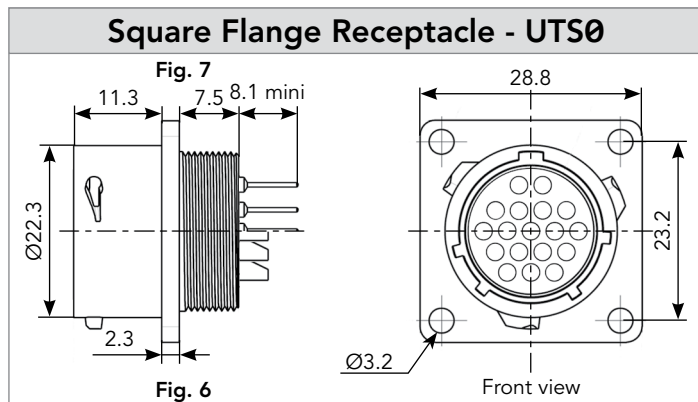
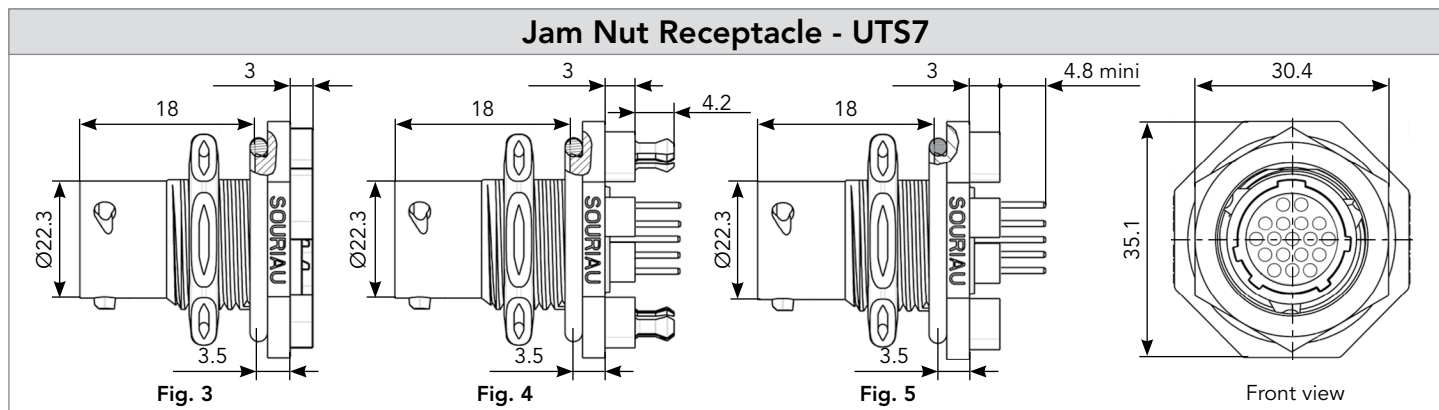
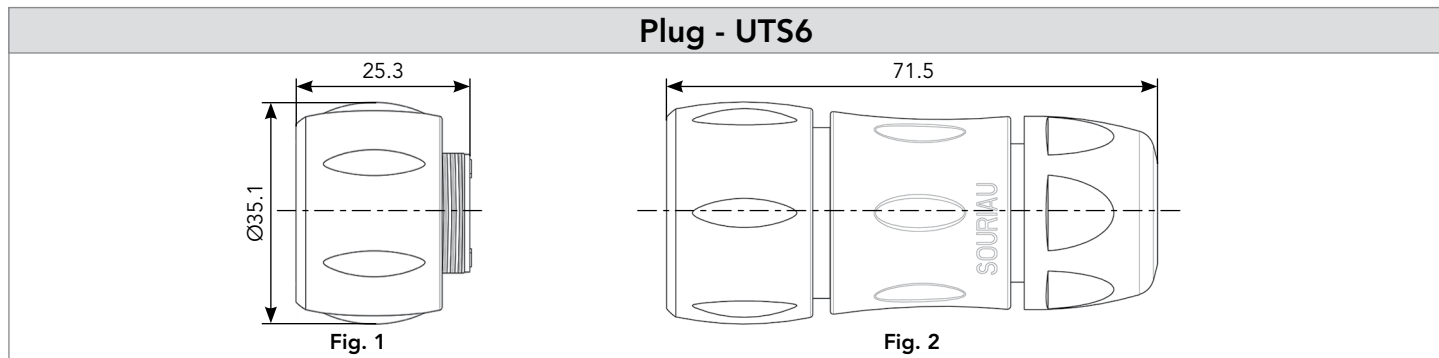
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 18x0.5	HAUTS0V14E18PST100	HAUTS0V14E18SST100
Right angle ending	Plug	0.5	H05 VV - F 18x0.5	HAUTS0V14E18PRA100	HAUTS0V14E18SRA100

(1) Other cable available on demand

* Other lengths available on demand

14E18/14D18 (Shell size 14, 18x#20)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

14E18/14D18 (Shell size 14, 18x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number

UTS14DCG



IP68/69K

Metal terminal

Part number

UTS14DCGR

Plug Sealing Cap



IP68/69K

Part number

UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number

UTS14DCGE

Plastic Protective Cap



Part numbers

Receptacle
cap

85005588A

Plug cap

85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for
Yellow

R for Red

Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

14E18/14D18 (Shell size 14, 18x#20)

Contacts

#20	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	22 to 18	5 mm
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	-	-

(1): For dimensions see page 169

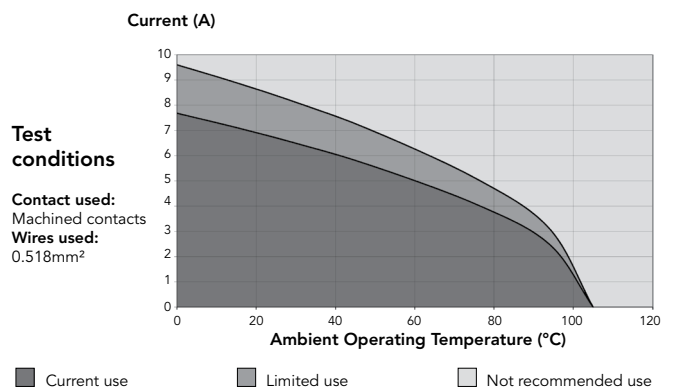
Electrical Characteristics

UL
4A 250V UL94 HB

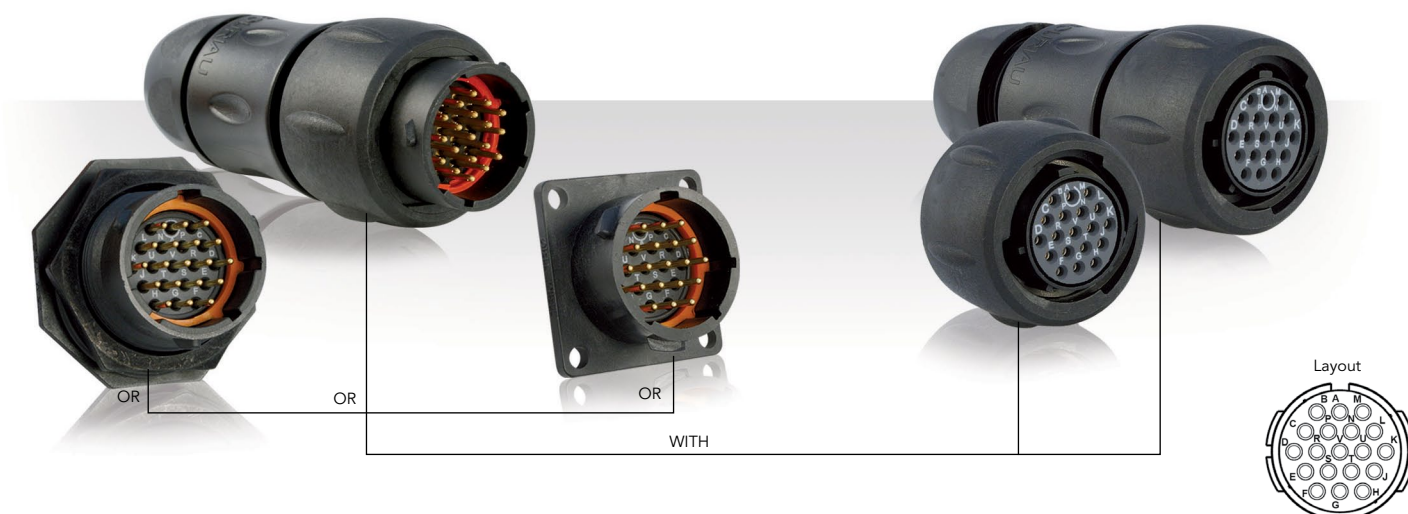
CSA
4A 250V UL94 HB

IEC
5A 50V 1.5kV 3

UTS 14E18/14D18 Derating Curves



1419 - 14E19/14D19 (Shell size 14, 19x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 143	Free hanging receptacle	Cable gland (Fig. 1)	UTS1JC1419P	UTS1JC1419S
	Plug	Without (Fig. 2)	UTS61419P	UTS61419S
	Plug	Cable gland (Fig. 3)	UTS6JC1419P	UTS6JC1419S
	Jam nut receptacle	Without (Fig. 4)	UTS71419P	UTS71419S
PCB contacts supplied separately see page 143	Jam nut receptacle	Without (Fig. 4)	UTS71419P	UTS71419S
Hand solder electrical contacts loaded see page 143	Square flange receptacle	Without (Fig. 8)	UTS014E19P	UTS014E19S
	Plug	Without (Fig. 2)	UTS614E19P	UTS614E19S
		Cable gland (Fig. 3)	UTS6JC14E19P	UTS6JC14E19S
	Jam nut receptacle	Without (Fig. 5)	UTS714E19P	UTS714E19S
PCB contacts loaded see page 143	Square flange receptacle	Without (Fig. 9)	UTS014D19P	UTS014D19S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTS714D19P32	UTS714D19S32
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTS714D19P	UTS714D19S

Possibilities of discrimination/keying methods see page 208

Sealed unsealed

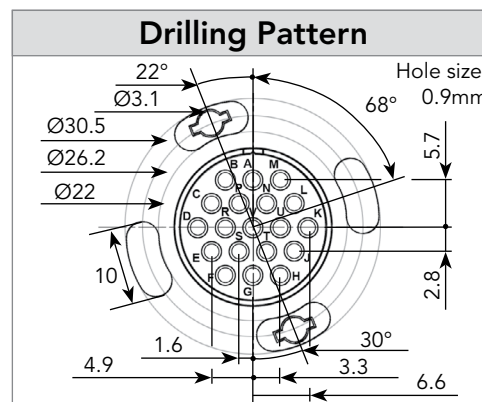
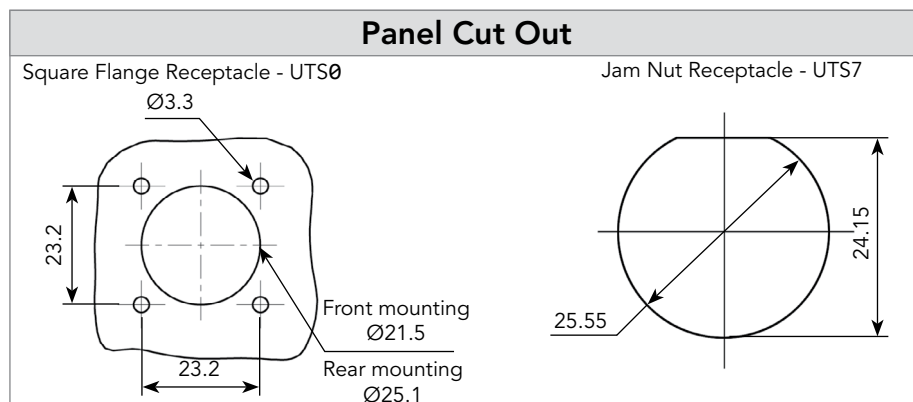
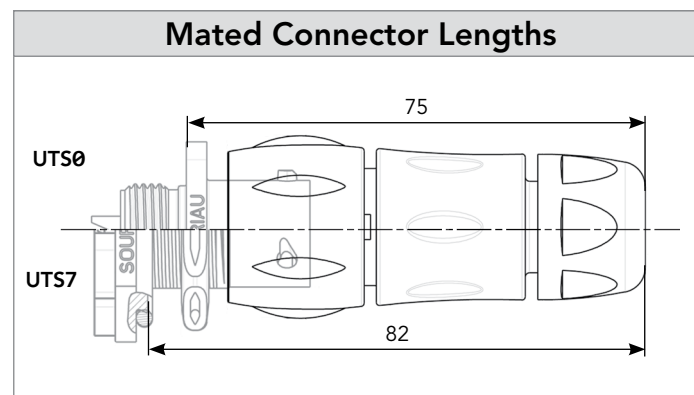
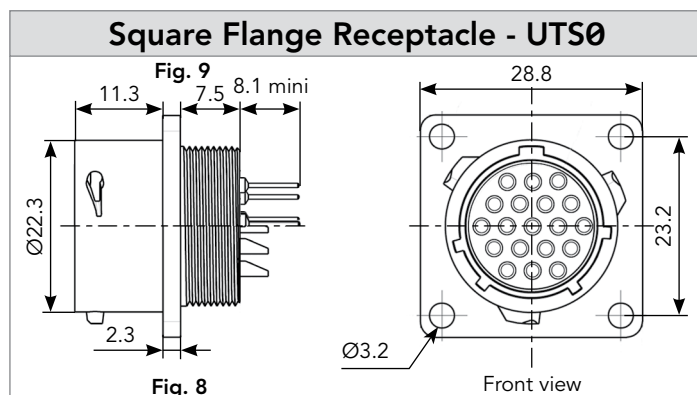
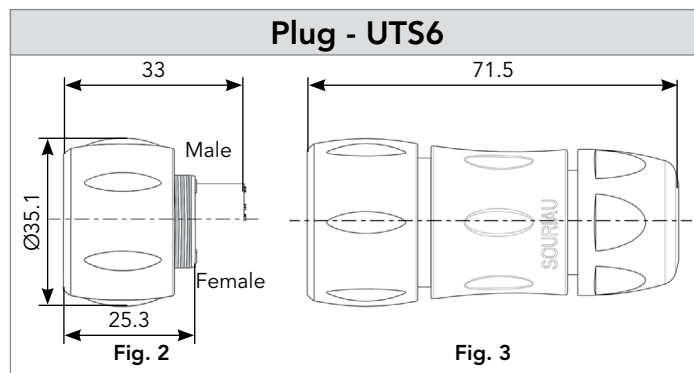
Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 19x0.5	HAUTS0V1419PST100	HAUTS0V1419SST100
				HAUTS0V14E19PST100	HAUTS0V14E19SST100
Right angle ending	Plug	0.5	H05 VV - F 19x0.5	HAUTS0V1419PRA100	HAUTS0V1419SRA100
				HAUTS0V14E19PRA100	HAUTS0V14E19SRA100

(1) Other cable available on demand

* Other lengths available on demand

Dimensions



Note: all dimensions are in mm

1419 - 14E19/14D19 (Shell size 14, 19x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS14DCG



IP68/69K

Metal terminal

Part number
UTS14DCGR

Handle (without Head)



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS614DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS14DCGE

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 24W3K ⁽¹⁾	Standard contacts #20 Ø 1mm	S20RCM*
RM/RC 20W3K ⁽¹⁾		S20RCM*
RM/RC 18W3K ⁽¹⁾		S20RCM*
SM/SC 24WL3S		S20SCM20*
SM/SC 20WL3S		S20SCM20*

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES

Plastic Protective Cap



Part numbers

Receptacle cap
85005588A

Plug cap
85005597

Gasket



Part numbers

UTFD14B

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles

Plugs

UTS714CCRR

UTS614CCRR

UTS714CCRY

UTS614CCRY

UTS714CCRG

UTS614CCRG

Extraction Tool #20



Part number
RX20D44



Handle

+



Head

=



Complete set

1419 - 14E19/14D19 (Shell size 14, 19x#20)

Contacts

#20	Contact type	Wire size		Part number		Max wire Ø	Max insulator Ø	Wire stripping length
		AWG	mm²	Male	Female			
Crimp	Machined	26-24	0.13-0.25	RM24W3K ⁽¹⁾	RC24W3K ⁽¹⁾	0.80	1.60	4.80
		22-20	0.32-0.52	RM20W3K ⁽¹⁾	RC20W3K ⁽¹⁾	1.15	1.60	4.80
		20-18	0.50-0.93	RM18W3K ⁽¹⁾	RC18W3K ⁽¹⁾	1.30	2.10	4.80
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24W3TK6 ⁽²⁾	SC24W3TK6 ⁽²⁾	-	0.90-1.60	4.00
		26-24	0.13-0.25	SM24W3S26 ⁽²⁾	SC24W3S25 ⁽²⁾	-	0.90-1.60	4.00
		22-20	0.32-0.52	SM20W3TK6 ⁽²⁾	SC20W3TK6 ⁽²⁾	-	1.20-2.10	4.00
		22-20	0.32-0.52	SM20W3S26 ⁽²⁾	SC20W3S25 ⁽²⁾	-	1.20-2.10	4.00
PCB	Machined ⁽³⁾	-	-	RMW5016K	RCW5016K	-	-	-
Hand-solder	Loaded in the connector	22-18	-	-	-	-	-	3.80

(1): Example of plating, for other plating see page 164

(2): Loose piece contact available if putting L. Example: SM20WL3TK6

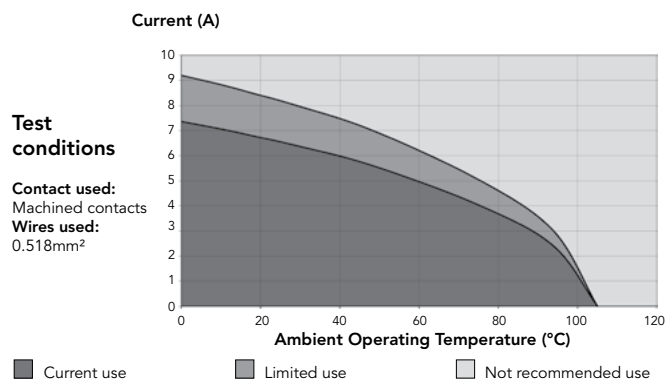
(3): For dimensions see page 168

Note: all dimensions are in mm

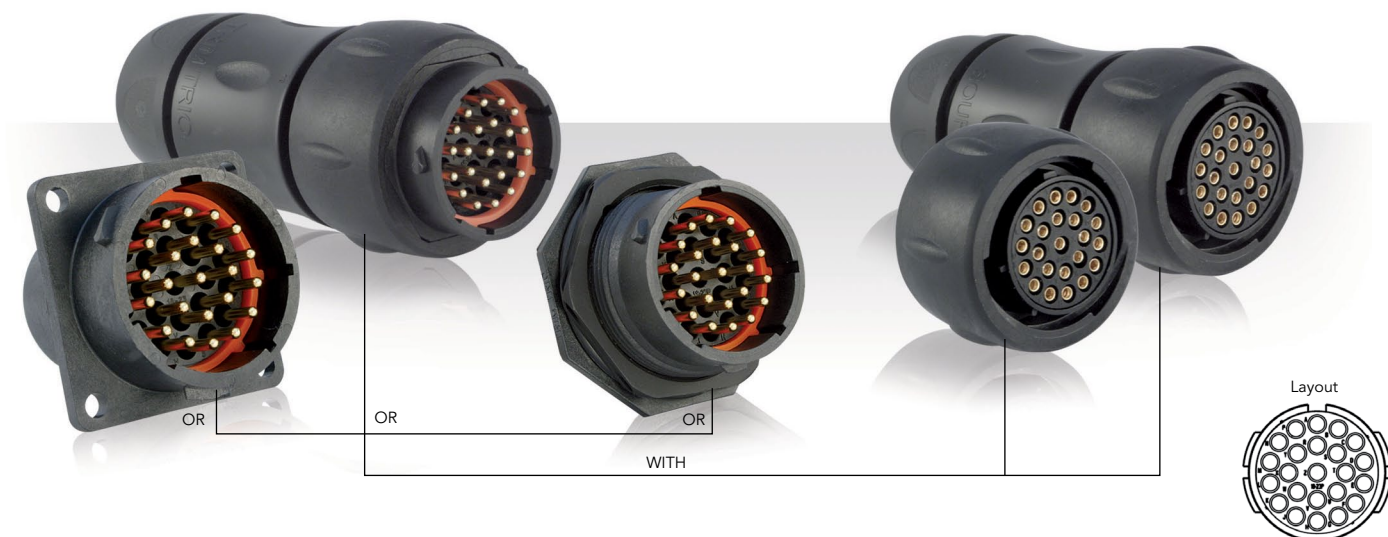
Electrical Characteristics

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

UTS 1419 - 14E19/14D19 Derating Curves



1823 (Shell size 18, 23x#16)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 147	Square flange receptacle	Without (Fig. 1)	UTS01823P	UTS01823S
	Free hanging receptacle	Cable gland (Fig. 2)	UTS1JC1823P	UTS1JC1823S
	Plug	Without (Fig. 3)	UTS61823P	UTS61823S
	Plug	Cable gland (Fig. 4)	UTS6JC1823P	UTS6JC1823S
	Jam nut receptacle	Without (Fig. 5)	UTS71823P	UTS71823S
PCB contacts supplied separately see page 147	Square flange receptacle	Without (Fig. 1)	UTS01823P	UTS01823S
	Jam nut receptacle	Without (Fig. 5)	UTS71823P	UTS71823S

Possibilities of discrimination/keying methods see page 208

Overmoulded Cable Assembly Part Numbers

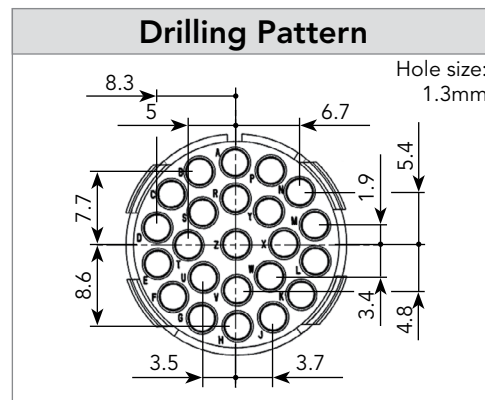
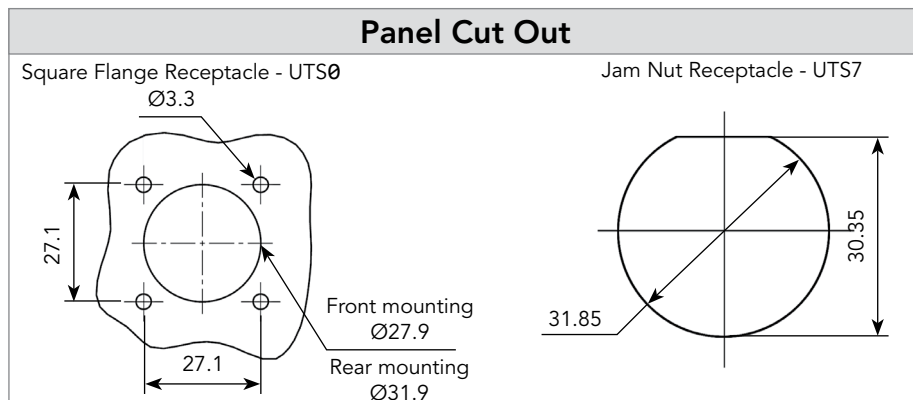
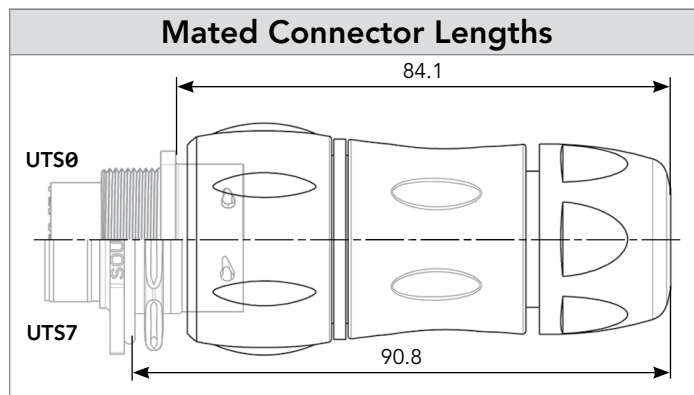
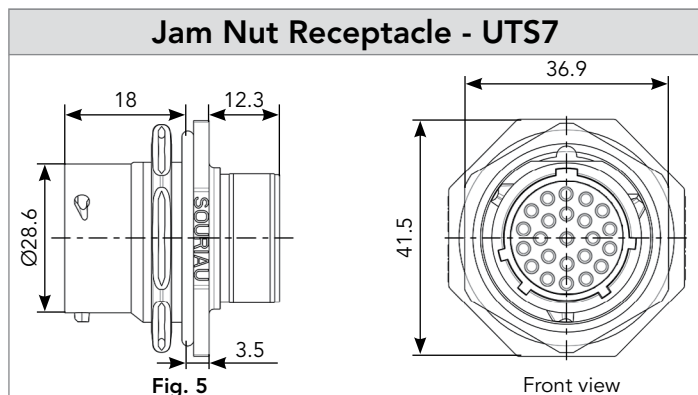
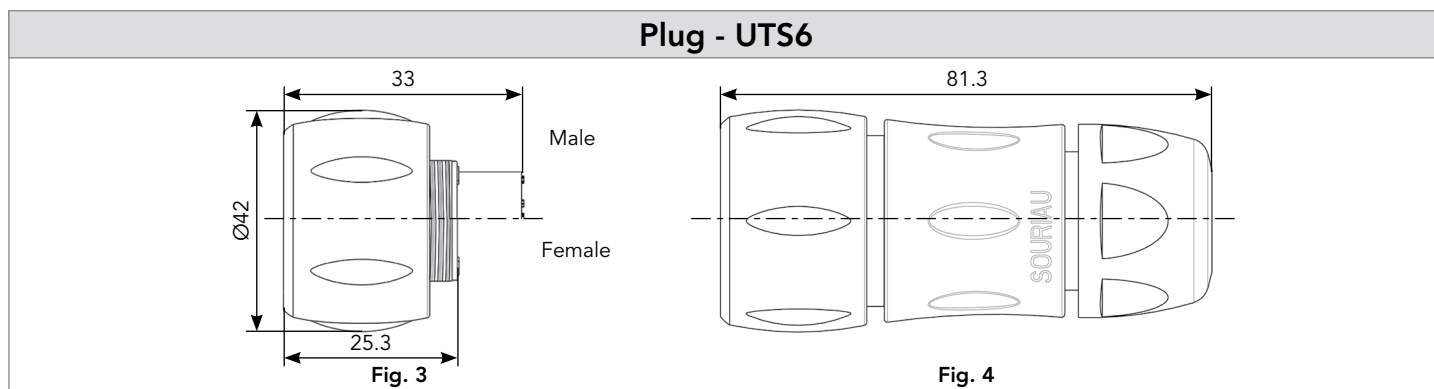
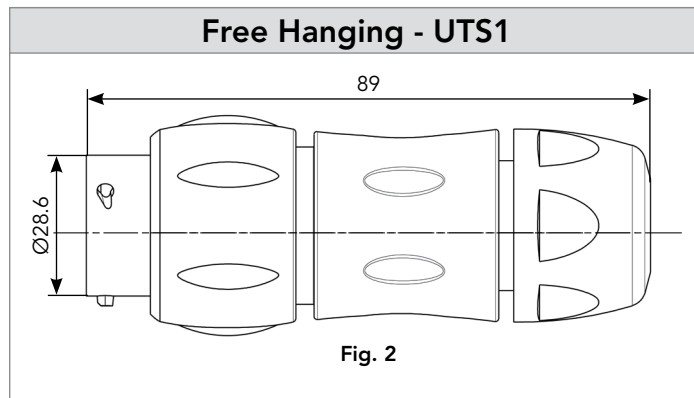
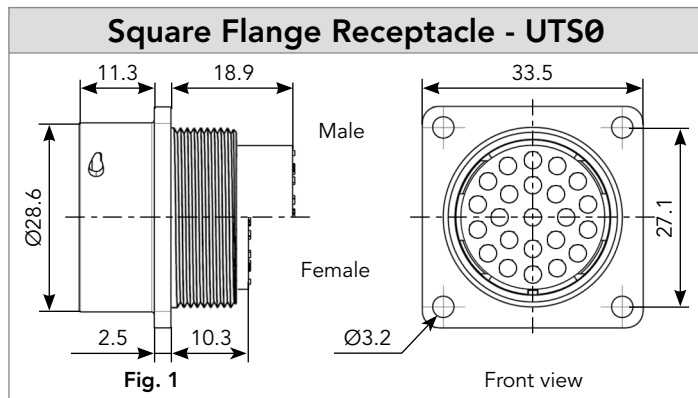
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 23x1.5	HAUTS0V1823PST100	HAUTS0V1823SST100
Right angle ending	Plug	1.5	H05 VV - F 23x1.5	HAUTS0V1823PRA100	HAUTS0V1823SRA100

(1) Other cable available on demand

* Other lengths available on demand

1823 (Shell size 18, 23x#16)

Dimensions



Note: Overmoulded cable assembly dimensions available page 179.

Note: all dimensions are in mm

1823 (Shell size 18, 23x#16)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS18DCG



IP68/69K

Metal terminal

Part number
UTS18DCGR

Handle (without Head)



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS618DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS18DCGE

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	S16RCM20*
RM/RC 24M9K ⁽¹⁾		S16RCM20*
RM/RC 20M13K ⁽¹⁾		S16RCM20*
RM/RC 20M12K ⁽¹⁾		S16RCM20*
RM/RC 16M23K ⁽¹⁾		S16RCM16*
RM/RC 14M30K ⁽¹⁾		S16RCM14*
SM/SC 24ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 20ML1TK6 ⁽¹⁾		S16SCM20*
SM/SC 16ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 14ML1TK6 ⁽¹⁾		S16SCML1*
SM/SC 16ML11TK6 ⁽¹⁾		S16SCML11*
RMDXK10D28K	Coaxial contacts	M10S1J with die set & stop bushing see page 200 to 204
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + yorK090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 164

* Heads to be used with handle PN: SHANDLES

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005590A	85005599

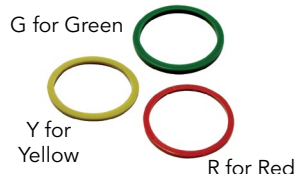
Gasket



Part numbers

UTFD16B

Color Coding Rings



Part numbers

Receptacles	Plugs
UTS718CCRR	UTS618CCRR
UTS718CCRY	UTS618CCRY
UTS718CCRG	UTS618CCRG



Handle



Head



Complete set

1823 (Shell size 18, 23x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
PCB	Machined ⁽³⁾	-	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	-	-
Coaxial	Cable Multipiece	see pages 167, 200 to 206	RMDXK10D28	RCDXK1D28	-	-
	Cable Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair Multipiece		RMDXK10D28 + york090	RCDXK1D28 + york090	-	-
	Twisted pair Monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
Fiber optic	POF contacts (Plastic Optical Fiber)	-	RMPOF1000	RCPOF1000B	-	-

(1): Example of plating, for other plating see page 164 (2): Loose piece contact available if putting L. Example: SM20ML1TK6 (3): For dimensions see page 168 Note: all dimensions are in mm

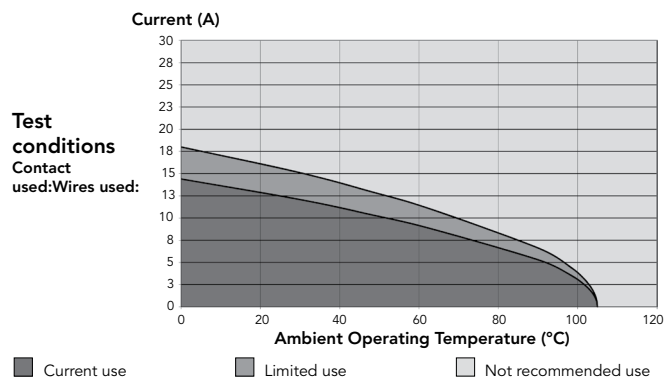
Electrical Characteristics

UL
10A 500V UL94 V-0

CSA
7A 500V UL94 V-0

IEC
9A 63V 1.5kV 3

UTS 1823 Derating Curves



1832 - 18E32 (Shell size 18, 32x#20)



Connector Part Numbers

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp Contact supplied separately see page 151	Free hanging receptacle	Cable gland (Fig. 2)	UTS1JC1832P	UTS1JC1832S
	Plug	Without (Fig. 3)	UTS61832P	UTS61832S
	Plug	Cable gland (Fig. 4)	UTS6JC1832P	UTS6JC1832S
	Jam nut receptacle	Without (Fig. 5)	UTS71832P	UTS71832S
PCB contacts supplied separately see page 151	Jam nut receptacle	Without (Fig. 5)	UTS71832P	UTS71832S
Hand solder electrical contacts loaded see page 151	Square flange receptacle	Without (Fig. 1)	UTS018E32P	-

Possibilities of discrimination/keying methods see page 208

Sealed unmated

Overmoulded Cable Assembly Part Numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 32x0.5	HAUTS0V1832PST100	HAUTS0V1832SST100
Right angle ending	Plug	0.5	H05 VV - F 32x0.5	HAUTS0V1832PRA100	HAUTS0V1832SRA100

(1) Other cable available on demand

* Other lengths available on demand

1832 - 18E32 (Shell size 18, 32x#20)

Accessories and Tooling

Jam Nut Sealing Caps



IP68/69K

Part number
UTS18DCG



IP68/69K

Metal terminal

Part number
UTS18DCGR

Handle (without Head)



Part number
SHANDLES

Tool Kit



Part number
TOOLKIT

Plug Sealing Cap



IP68/69K

Part number
UTS618DCG

Square Flange Sealing Cap



IP68/69K

Metal terminal

Part number
UTS18DCGE

Crimp Tooling (without Shandles)



Contacts	Contact size	Part number of head
RM/RC 24W3K ⁽¹⁾	Standard contacts #20 Ø 1mm	S20RCM*
RM/RC 20W3K ⁽¹⁾		S20RCM*
RM/RC 18W3K ⁽¹⁾		S20RCM*
SM/SC 24WL3S		S20SCM20*
SM/SC 20WL3S		S20SCM20*

(1): Example of plating, for other plating see page 164

*: Heads to be used with handle PN: SHANDLES



Handle

+



Head

=



Complete set

Plastic Protective Cap



Part numbers

Receptacle cap	Plug cap
85005590A	85005599

Gasket



Part numbers

UTFD16B

Color Coding Rings

G for Green



Y for Yellow



R for Red



Part numbers

Receptacles	Plugs
UTS718CCRR	UTS618CCRR
UTS718CCRY	UTS618CCRY
UTS718CCRG	UTS618CCRG

Extraction Tool #20



Part number
RX20D44

1832 - 18E32 (Shell size 18, 32x#20)

Contacts

#20	Contact type	Wire size		Part number		Max wire Ø	Max insulator Ø	Wire stripping length
		AWG	mm²	Male	Female			
Crimp	Machined	26-24	0.13-0.25	RM24W3K ⁽¹⁾	RC24W3K ⁽¹⁾	0.80	1.60	4.80
		22-20	0.32-0.52	RM20W3K ⁽¹⁾	RC20W3K ⁽¹⁾	1.15	1.60	4.80
		20-18	0.50-0.93	RM18W3K ⁽¹⁾	RC18W3K ⁽¹⁾	1.30	2.10	4.80
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	0.13-0.25	SM24W3TK6 ⁽²⁾	SC24W3TK6 ⁽²⁾	-	0.90-1.60	4.00
		26-24	0.13-0.25	SM24W3S26 ⁽²⁾	SC24W3S25 ⁽²⁾	-	0.90-1.60	4.00
		22-20	0.32-0.52	SM20W3TK6 ⁽²⁾	SC20W3TK6 ⁽²⁾	-	1.20-2.10	4.00
		22-20	0.32-0.52	SM20W3S26 ⁽²⁾	SC20W3S25 ⁽²⁾	-	1.20-2.10	4.00
PCB	Machined ⁽³⁾	-	-	RMW5016K	RCW5016K	-	-	-
Hand-solder	Loaded in the connector	18-22	-	-	-	-	-	3.80

(1): Example of plating, for other plating see page 164

(2): Loose piece contact available if putting L. Example: SM20WL3TK6

(3): For dimensions see page 168

Note: all dimensions are in mm

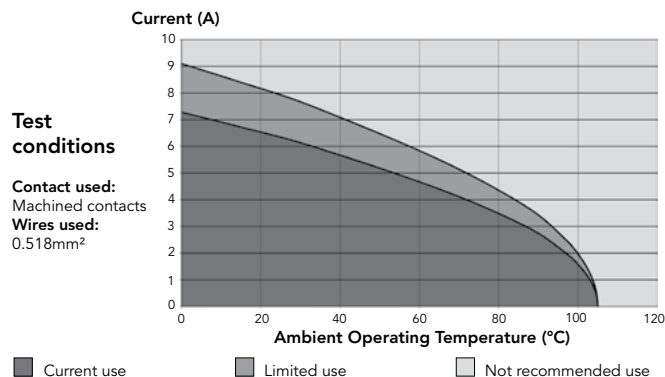
Electrical Characteristics

UL
5A 250V UL94 V-0

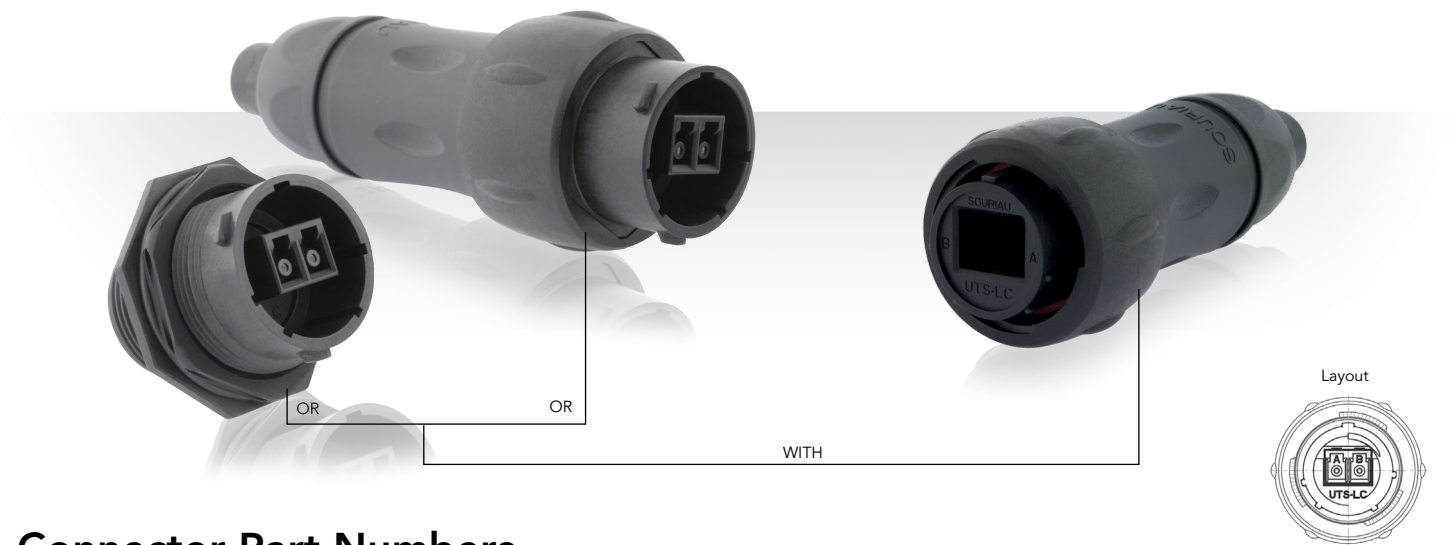
CSA
4A 250V UL94 V-0

IEC
4A 32V 1.5kV 3

UTS 1832 - 18E32 Derating Curves



LC



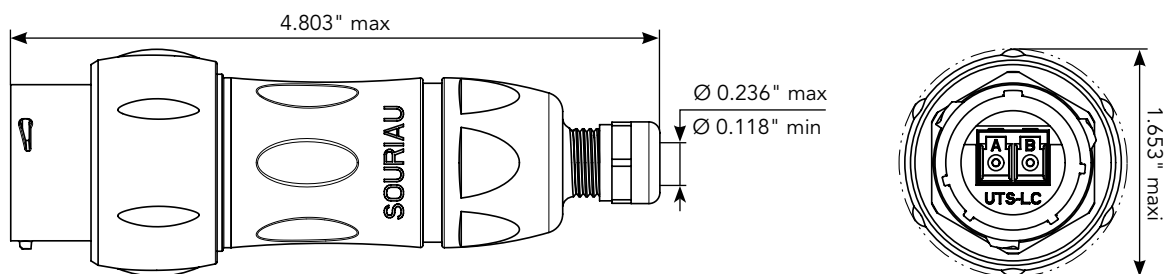
Connector Part Numbers

Connector type	Backshell	Part number	
		Male insert	Female insert
Free hanging receptacle	Cable gland	UTS1JC18LCN	-
Plug	Cable gland	-	UTS6JC18LCN
Jam nut receptacle	Without	UTS718LCN	-

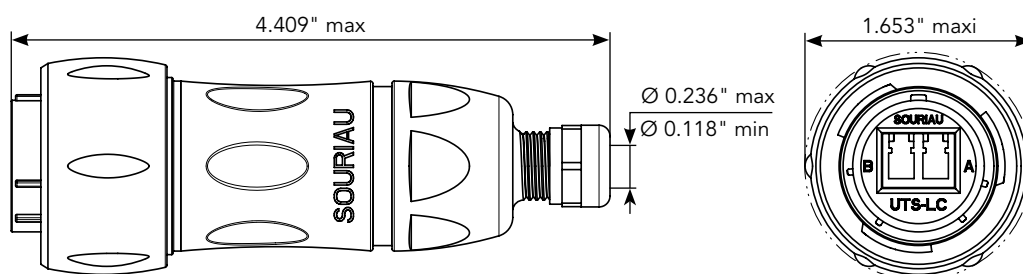
LC

Dimensions

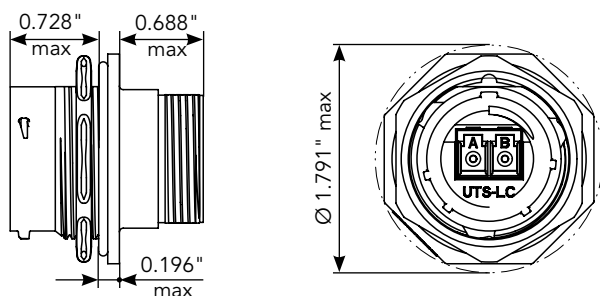
Free Hanging Receptacle -UTS1JC18LCN



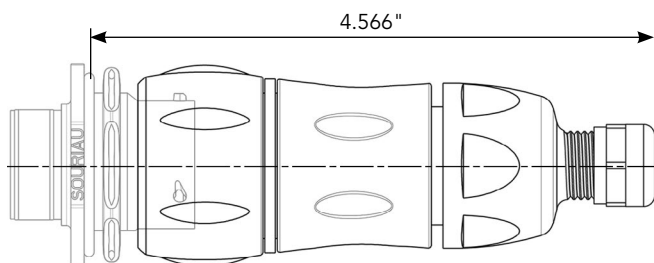
Plug - UTS6JC18LCN



Jam Nut Receptacle - UTS718LCN

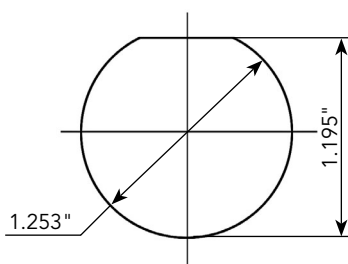


Mated Connector Length - UTS7



Panel Cut Out

Jam Nut Receptacle - UTS7



LC

Accessories

Sealing Caps							
For UTS6JC18LCN		For UTS1JC18LCN & UTS718LCN					
	<table><tr><th>Part number</th></tr><tr><td>UTS618DCG2</td></tr></table>	Part number	UTS618DCG2		<table><tr><th>Part number</th></tr><tr><td>UTS18DCG2</td></tr></table>	Part number	UTS18DCG2
Part number							
UTS618DCG2							
Part number							
UTS18DCG2							

MPO



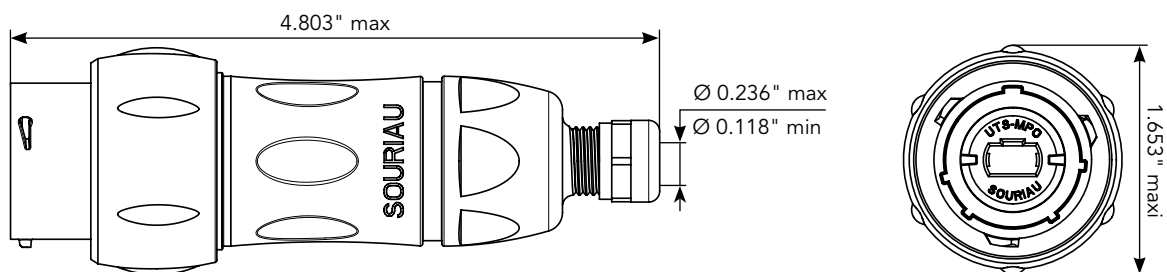
Connector Part Numbers

Connector type	Backshell	Part number	
		Male insert	Female insert
Free hanging receptacle	Cable gland	UTS1JC18MPN	-
Plug	Cable gland	-	UTS6JC18MPN
Jam nut receptacle	Without	UTS718MPN	-

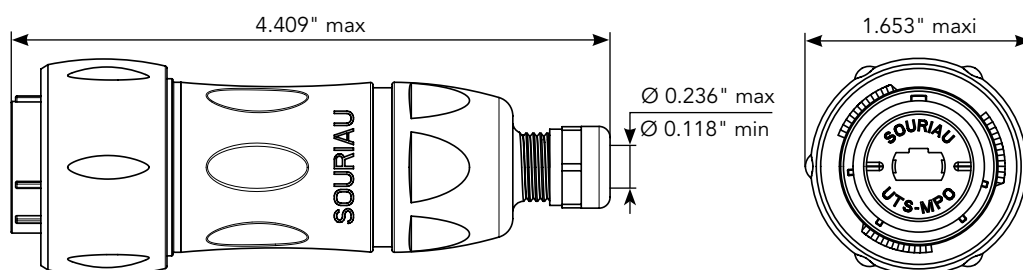
MPO

Dimensions

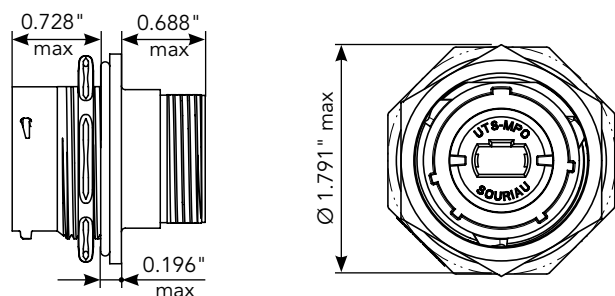
Free Hanging Receptacle - UTS1JC18MPN



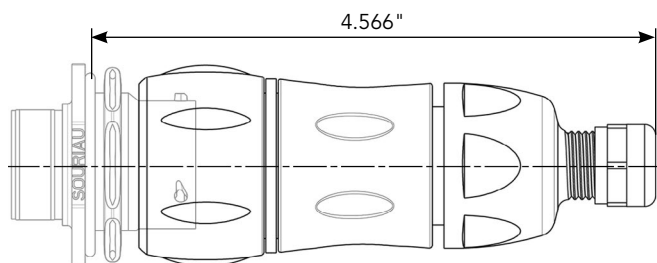
Plug - UTS6JC18MPN



Jam Nut Receptacle - UTS718MPN

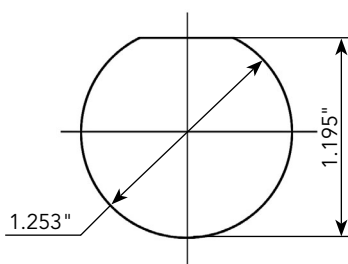


Mated Connector Length - UTS7



Panel Cut Out

Jam Nut Receptacle - UTS7



MPO

Accessories

Sealing Caps			
For UTS6JC18MPN		For UTS1JC18MPN & UTS718MPN	
	Part number		Part number
	UTS618DCG2		UTS18DCG2

UTS SERIES

Contacts

■ Description	162
■ Contact Plating Selector Guide	163
■ Contact Selector Guide	164
■ Packaging	164
■ Crimp Contacts	165
■ #16 Coaxial Contacts	167
■ PCB Contacts	168
■ Fiber Optic Contacts	169

Contacts



Description

The UTS series is delivered with (solder and PCB versions) or without contact (crimp version) and offers the unique feature to use the same contact style in any layout with the same active part size (i.e. #20, #16, #12, etc.). This provides our customers with an easy solution to buy only one type of contact to equip all their connectors even if housings/shell sizes are different.

This provides the benefit of standardisation and subsequent reduced inventory costs. In addition, it eliminates the need for added tooling and simplifies the assembly process. SOURIAU contacts are designed for simple snap-in installation and further eliminate the need for insertion tooling.

In addition to the below "crimp" style contact options, the UTS series can also be equipped with PCB contacts.

Crimp contacts are available in different versions:



• Machined



• Stamped & Formed



• Coaxial



• Fiber Optic

Contact Plating Selector Guide

Once the contact size has been selected, the next step is to decide on which type to use. SOURIAU offers two main types of electrical contacts:

- Machined
- Stamped & Formed

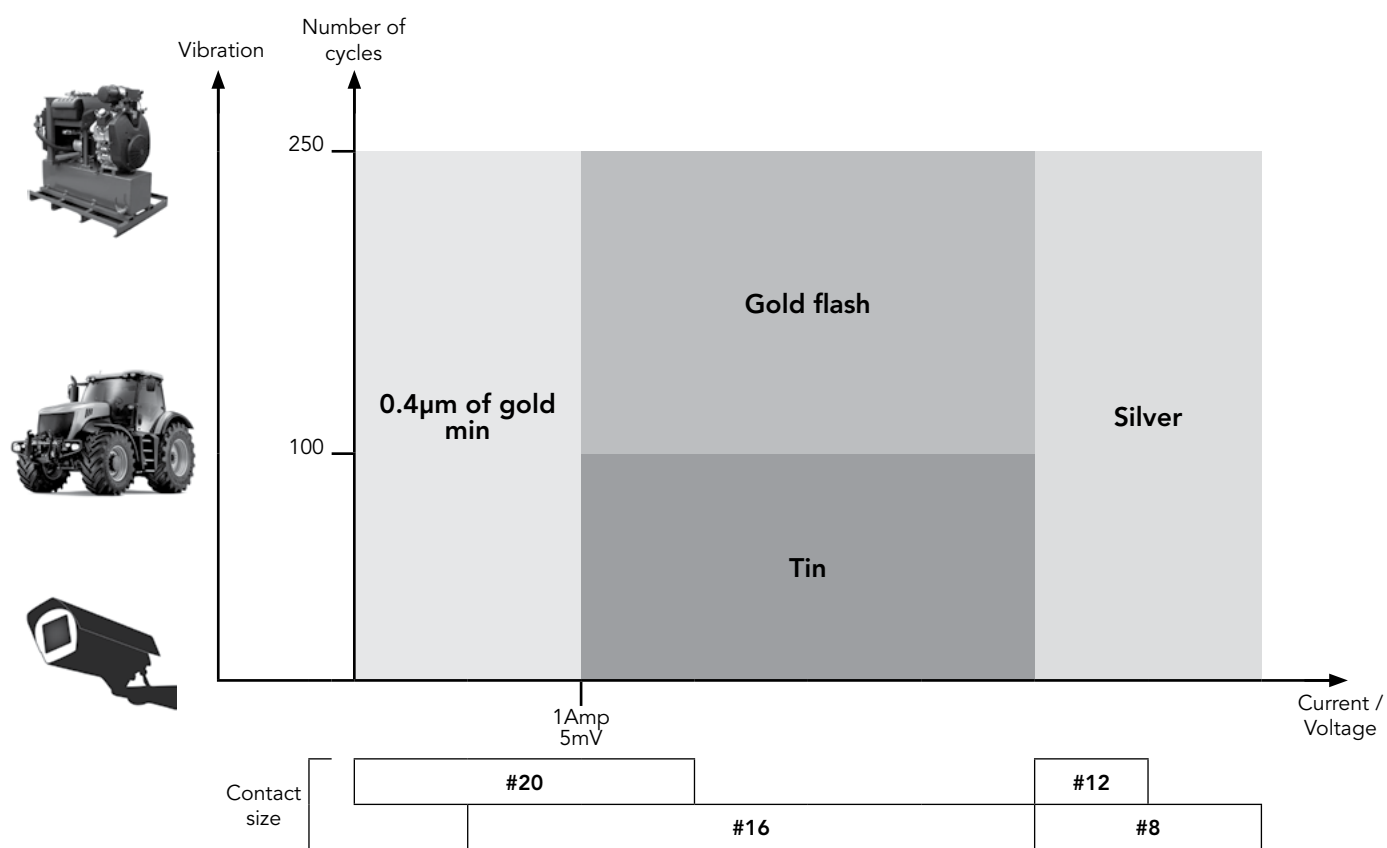
Machined contacts are generally chosen as a better solution for power applications or when lower quantities are needed.

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

The next decision to make is: What plating should I choose?

The graph below can help guide you to plating recommendations based on application, mating cycles and current/voltage needs.

Note: do not mix different platings (i.e. tin plated pin contacts with gold plated socket contacts).



Contact Selector Guide

Contact supplied separately

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

Available platings (contact supplied 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
TK6	2-5μ Sn pre-plated
D70	Superseded by S31
S6	Superseded by S18
Other platings on request (contact supplied separately)	
T	T: 2μ Ni mini all over + 3 to 5 μm Sn all over
D28	0.75μ gold over Ni
NPC	2 μm Ni

Contact preloaded

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

Available plating (contact preloaded)	
Min 0.4μ gold over 0.8μ Ni	

Packaging

Due to the wide variety of applications, contact packaging is offered for small series (bulk package) and high volume production (reeled contacts):

Size contacts #20 (Ø1mm) & #16 (Ø1.6mm)



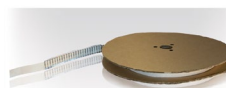
- 25 pieces loose package (Stamped & Formed contacts)



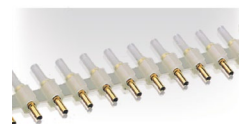
- 50 pieces bulk package (Machined contacts)



- 1,000 pieces bulk package (Machined contacts)



- 3,000 pieces reeled (Stamped & Formed contacts)



- 2,000 pieces reeled (Machined contacts)

Size contacts #12 (Ø2.4mm) & #8 (Ø3.6mm)



- 100 pieces bulk package (Machined contacts)

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

Crimp Contacts

Standard Version



Contact size	Type	Wire size		Part number		Max wire Ø	Max insulator Ø	Available plating see page 156
		AWG	mm ²	Male	Female			
#20 Ø1 mm	Machined	26-24	0.13-0.20	RM24W3K	RC24W3K	-	1.58 max	K
	Stamped & Formed	26-24	0.13-0.25	SM24W3 - (1)	SC24W3 - (1)	-	0.89-1.58	TK6 S25 (female) S26 (male)
				SM24WL3 - (2)	SC24WL3 - (2)	-		
	Machined	22-20	0.32-0.52	RM20W3K	RC20W3K	-	1.58 max	K
	Stamped & Formed	22-20	0.35-0.5	SM20W3 - (1)	SC20W3 - (1)	-	1.17-2.08	TK6 S25 (female) S26 (male)
				SM20WL3 - (2)	SC20WL3 - (2)	-		
#16 Ø1.6 mm	Machined	20-18	0.50-0.93	RM18W3K	RC18W3K		2.10 max	K
	Machined	30-28	0.05-0.08	RM28M1 -	RC28M1 -	0.55	1.1	K, J
	Machined	26-24	0.13-0.2	RM24M9 -	RC24M9 -	0.8	1.6	K, J
	Stamped & Formed	26-24	0.13-0.25	SM24M1 - (1) SM24ML1 - (2)	SC24M1 - (1) SC24ML1 - (2)	0.89-1.28	Insulation grip	S31, S18, TK6
	Machined	22-20	0.32-0.52	RM20M13 - RM20M12 -	RC20M13 - RC20M12 -	1.18	1.8 2.2	K, J
	Stamped & Formed	22-20	0.35-0.5	SM20M1 - (1) SM20ML1 - (2)	SC20M1 - (1) SC20ML1 - (2)	1.17-2.08	Insulation grip	S31, S18, TK6
	Machined	20-16	0.52-1.5	RM16M23 -	RC16M23 -	1.8	3.2	K, J
	Stamped & Formed	18-16	0.8-1.5	SM16M1 - (1) SM16ML1 - (2)	SC16M1 - (1) SC16ML1 - (2)	3.0	No insulation grip	S31, S18, TK6
#12 Ø2.4 mm	Machined	22	0.13-0.4	82911457N -	82911456 -	-	4.9	A, K
		20	0.5	82911459N -	82911458 -			
		18	0.75-1.0	82911461N -	82911460 -			
		16	1.5	82911463N -	82911462 -			
		14	2.5	82911465N -	82911464 -			
		12	4	82911467N -	82911466 -			
#8 Ø3.6 mm	Machined	16	1.5	82913601A	82913600A	-	6.5	A
		14	2.5	82913603A	82913602A			
		12	4	82913605A	82913604A			
		10	6.0	82913607A	82913606A			
		8	10.0	82913609A	82913608A			

(1) contact reeled (2) loose contact
Example: RM24W3K - Size #20, Machined, AWG24 wire.

Note: all dimensions are in mm

Crimp Contacts (Continued)

First Mate Last Break Contacts

Contact size	Type	Wire size		Part number		Max wire Ø (mm)	Max insulator Ø (mm)			Available plating see p. 156
		AWG	mm²	Male	Female			Front	Rear	
#16 Ø1.6 mm Longer male contact (+1mm)	Machined	30-28	0.05-0.08	RM28M1GE1K	-	0.55	1.1	-	Red	K
		26-24	0.13-0.2	RM24M9GE1K		0.8	1.6	Red	Red	
		22-20	0.32-0.52	RM20M13GE1K		1.18	1.8	Black	Red	
				RM20M12GE1K			2.2	Blue	Red	
		20-16	0.52-1.5	RM16M23GE1K		1.8	3.2	-	Red	
		16-14	1.5-2.5	RM14M30GE1K		2.28	-	-	Red	
#16 Ø1.6 mm Shorter female contact (-0.7mm)	Machined	30-28	0.05-0.08	-	RC28M1GE7K	0.55	1.1	-	Blue	K
		26-24	0.13-0.2		RC24M9GE7K	0.8	1.6	Red	Blue	
		22-20	0.32-0.52		RC20M13GE7K	1.18	1.8	Black	Blue	
					RC20M12GE7K		2.2	Blue	Blue	
		20-16	0.52-1.5		RC16M23GE7K	1.8	3.2	-	Blue	
		16-14	1.5-2.5		RC14M30GE7K	2.28	-	-	Blue	

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 ground symbol. For cavities marked with the ground 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

SOURIAU provides 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	RMDXK10D28	RCDXK1D28	See page 200	See pages 204 & 205
Monocrimp	RMDX60xxD28	RCDX60xxD28		See page 206

Contacts for twisted pairs cable summary

Contact type	Contact range		Contact part number with cable combination	Cabling notice
	Male contact	Female contact		
Multipiece	RMDXK10D28 + YORK090	RCDXK1D28 + YORK090	See page 201	See page 202
Monocrimp	RMDX60xxD28	RCDX60xxD28		See page 203

PCB Contacts

PCB Contacts Supplied Separately - UTS Standard Series

PCB soldering

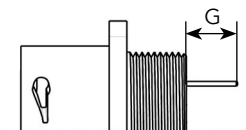
The UTS Series can be used in a wave soldering process, but not reflow soldering process. All high temperature processes are prohibited.



Contact size	Part number		Plating see page 164
	Male	Female	
#20 Ø1mm	RMW50A7K RMW5016K	RCW50A7K RCW5016K	K
#16 Ø1.6mm	RM20M12E8K RM20M12E83K RM20M12E84K	RC20M12E8K RC20M12E83K RC20M12E84K RC20M12E85K RC20M12E86K RC20M12E87K	K
#8 Ø3.6mm	82911685NPC	82911684NPC	2 µm Ni

Minimal length G (mm)

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



UTS0 with PCB contacts #16

Connector size	Pin contact			Socket contact			
	RM20M12E8K*	RM20M12E83K*	RM20M12E84K*	RC20M12E8K*	RC20M12E83K*	RC20M12E84K*	RC20M12E87K*
10	4.2	9.4	12.9	4.2	9.4	12.9	6.5
12	3.6	8.8	12.3	4.2	9.4	12.9	6.5
14	3.3	8.5	12.0	2.6	7.8	11.3	4.9
18	4.2	9.3	12.9	4.2	9.4	12.9	6.5

UTS7 with PCB contacts #20 and #16

Connector size	Pin contact				Socket contact		
	RM20M12E83K*	RM20M12E84K*	RMW50A7K*	RMW5016K*	RC20M12E84K*	RCW50A7K*	RCW5016K*
10	7.3	10.8	8.4	9.3	3.6	8.4	9.3
12	7.3	10.8	8.4	9.3	3.9	8.4	9.3
14	7.3	10.8	8.4	9.3	3.6	-	-
18	8.1	11.6	8.4	9.3	3.6	-	-

* Plating indication see page 164

UTS7 with PCB contacts #16 and #8

Connector type	Pin contact		Socket contact	
	RM20M12E83K*	82911685NPC*	RC20M12E87K*	82911684NPC*
UTS7142G1P	-	6.4	-	-
UTS7142G1S	-	-	-	8.2
UTS7142G1SNPT	-	5.8	-	5.4
UTS718X2M3	4.9	4.5	3.6	5.2
UTS7183G1SNPT	-	-	-	4.17

* Plating indication see page 164

Note: all dimensions are in mm

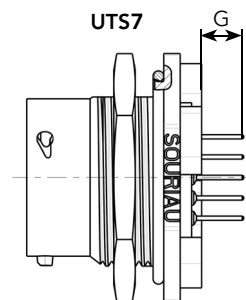
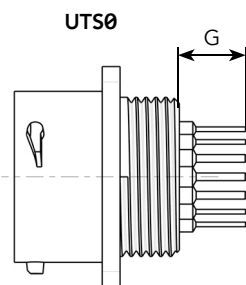
PCB Contacts Loaded - UTS Sealed Unmated Series

PCB soldering

The UTS Series can be used in a wave soldering process, but not reflow soldering process. All high temperature processes are prohibited.

Nominal length G (mm)

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



UTS0

Connector size	Connector Part Number	Pin contact		Socket contact	
		G mini	G maxi	G mini	G maxi
8	8D2 - 8D3 8D4	7.2	9.2	7	9
	8D3A/8D98 8D33	8.1	10.4	8.1	10.1
10	10D6 - 10D98 10D7	8.1	10.2	8.1	10.3
12	12D2 - 12D3 12D8 - 12D10	8.1	10.2	8.1	10.3
	12D4	8.2	10	8.1	10.3
	12D14	7.2	9	7.1	9.2
14	14D5 - 14D12 - 14D15 14D18 - 14D19	8.1	10.2	8.1	10.3
	14D7	8.2	10	8.1	10.3

UTS7

Connector size	Connector Part Number	Pin contact		Socket contact	
		G mini	G maxi	G mini	G maxi
8	8D2 - 8D3 8D4	3.8	6.1	3.7	5.9
	8D3A/8D98 8D33	4.7	7.3	4.7	7
10	10D6 - 10D98 10D7	4.7	7.3	4.7	7
12	12D2 - 12D3 12D8 - 12D10	4.7	7.3	4.8	7
	12D4	4.9	7.1	4.8	7
	12D14	3.9	6.2	3.8	6
14	14D5 - 14D12 - 14D15 14D18 - 14D19	4.8	7.3	4.9	7
	14D7	4.9	7.1	4.9	7

Note: all dimensions are in mm

Fiber Optic Contacts

Description

Size 16 fiber optic contacts for UTS and other TRIM TRIO® connectors

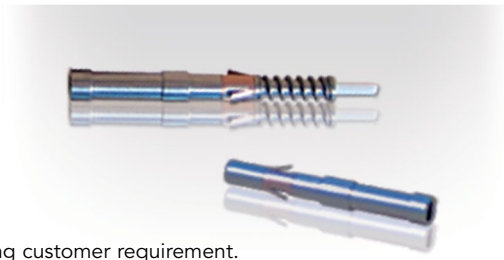
Size 16 fiber optic contacts are designed for the integration of optical links in UTS and other TRIM TRIO® cable connectors.

The Fiber optic contacts are designed to accommodate:

- Plastic Optical Fiber (POF) 1 mm core and 2.2 mm jacket

Typical features and benefits are:

- Socket contact is spring loaded to avoid any air gap between the two optical faces.
- Low insertion loss is provided by high precision pieces.
- Single jumpers, multiway harness and active device housings can be supplied regarding customer requirement.



Technical Characteristics

Performance

- Fiber type: POF
- Wave length:..... 650 nm
- Optical insertion loss (typ.): 2 dB max.
- Jacketed external diameter: 2.2mm
- Temperature range: -25°C to +70°C
- Cable retention:..... 49N
- Mating cycles without cleaning: 50
- Max. mating cycles: 500

Construction

- Contact body: Copper alloy

Connector accommodation

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, UTL.

Ordering Information

POF Contacts (Plastic Optical Fiber)

Male contact RMPOF1000

Female contact RCPOF1000B

POF Contact (Plastic Optical Fiber)

STANDARD TOOLING KIT - P/N 80MS0004

The *standard tooling kit* is made of the part numbers below that can be ordered separately as well.

Part numbers	Descriptions
80WD0005	Stripping tool
80WD0025	Automatic stripping tool for Ø 0.5 mm, 0.6 mm, 0.7 mm & 3.8 mm
80WM0006	Ruler
80WP0005	Polishing plate
80WP0013	Non slip base (to hold the polishing plate)
80WP0014	Polishing disk (grain size 9µm)
80WP0018	Polishing tool
80WP0019	Polishing disk (grain size 30µm)
80WS0002	Crimping plier

SPECIFIC TOOLING LIST - Can only be ordered separately

Part numbers	Descriptions
80WG0010	Needle
80WG0015	Capsule
80WG0016	Syringe
80WN0005	Dry air spray
80WN0006	Optical paper
80WN0012	Dropper bottle
80WN0008	Wiping solvent

UTS SERIES

Technical Information

■ Tooling	174
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■ Extraction Tools	179
■ Overmoulded Harnesses Dimensions	179
■ Assembly Instructions	180
■ Mated Connector Lengths	184
■ Mating Procedure	185
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■ UV Resistance	187
■ UL94 + UL1977	188
■ IEC 61984 & IP Codes Explained	191
■ IEC 61140 Explained	193
■ What is NEMA Rating ?	194
■ Ethernet for the Layman	195

Automatic Crimping Tools



SOURIAU

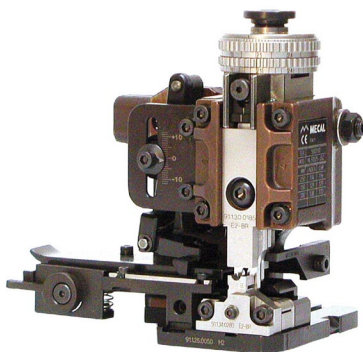
Mecal is a leader in manufacturing tooling for crimping terminals over a stripped wire.

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 Datacom industries.

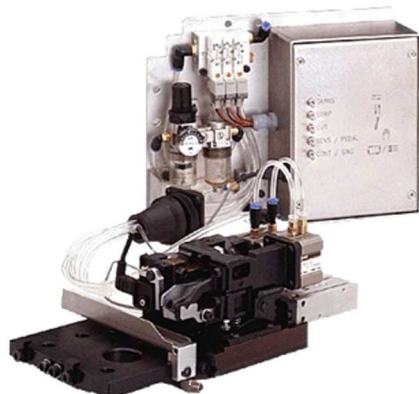
The extreme environment interconnect specialist "from deep sea to deep space".

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

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



Mini Applicator



Stripper



Presses

Mecal sales network:

<http://www.mecal.net/index.php/en/europe>

Tooling

Crimp Tool Table

Standard contacts

Contact size	Part number	Head*	Handles*	Extraction tools
#20 Ø 1mm	RM/RC 24W3K	S20RCM	SHANGLES	RX20D44
	RM/RC 20W3K			
	RM/RC 18W3K			
	SM 24WL3S* ⁽¹⁾	S20SCM20		
	SC 24WL3S* ⁽¹⁾			
	SM/SC 20WL3S* ⁽¹⁾			
#16 Ø 1.6mm	RM/RC 28M1*	S16RCM20		
	RM/RC 24M9*			
	RM/RC 20M13*			
	RM/RC 20M12*			
	RM/RC 16M23*	S16RCM16		
	RM/RC 14M30*	S16RCM14		
	SM/SC 24ML1* ⁽¹⁾	S16SCM20		
	SM/SC 20ML1* ⁽¹⁾			
	SM/SC 16ML1* ⁽¹⁾	S16SCML1		
	SM/SC 14ML1* ⁽¹⁾			
	SM/SC 16ML11* ⁽¹⁾	S16SCML11		

(1) loose contact

* endurance of SHANGLES & Head tools = 50,000 cycles

Contact size	Part number	Tool with separate locator			Extraction tools
		Hand tool	Positioner + locator setting		
#12 Ø 2.4mm	82911457N* / 82911456*	M317	VGE10077A	1-2	51060210924
	82911459N* / 82911458*			2	
	82911461N* / 82911460*			2	
	82911463N* / 82911462*			3	
	82911465N* / 82911464*			3	
	82911467N* / 82911466*			4	
#8 Ø 3.6mm	82913601A / 82913600A	M317	VGE10078A	3	51060210936
	82913603A / 82913602A			3	
	82913605A / 82913604A			4	
	82913607A / 82913606A			5	
	82913609A / 82913608A			6/7	

* see page 157 for plating options and other contact details

Specific contacts (First mate Last break 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	RM28M1GE1K	S16RCM20	-	-	-	RX2025GE1
	RM24M9GE1K					
	RM20M13GE1K					
	RM16M23GE1K RM20M12GE1K	S16RCM16	MH860	MH86186	6/8	
	RM14M30GE1K	S16RCM14	-	-	-	
#16 Ø 1.6mm Shorter RC contact	RC28M1GE7K	S16RCM20	MH860	MH86164G	4/6	
	RC24M9GE7K				5/6	
	RC20M13GE7K RC20M12GE7K				5/7	
	RC16M23GE7K	S16RCM16		6/8		
	RC14M30GE7K	S16RCM14	M317	UH25	3	

* see page 166 for plating options and other contact details

Coaxial contacts

See coax contacts details on page 167 and cabling notice pages 202 to 206.

Crimping instructions

Wire Stripping Crimp Version

	Part number		Stripping length L
	Male	Female	
Machined contact 	#20 (Ø 1mm)		
	RM24W3- / RM20W3- RM18W3-	RC24W3- / RC20W3- RC18W3-	4.8
	#16 (Ø 1.6mm)		
	RM28M1- / RM24M9- RM20M13- / RM20M12-	RC28M1- / RC24M9- RC20M13- / RC20M12-	4.8
	RM16M23- / RM14M30-	RC16M23- / RC14M30-	7.1
Stamped & Formed With insulation support 	#8 (Ø 3.6mm)		
	82913601- / 82913603- 82913605- / 82913607- 82913609-	82913600- / 82913602- 82913604- / 82913606- 82913608-	6.5 to 7.5
	#16 (Ø 1.6mm)		
	SM24M1- / SM24ML1- SM20M1- / SM20ML1-	SC24M1- / SC24ML1- SC20M1- / SC20ML1-	4
	SM16M11- / SM16ML11-	SC16M11- / SC16ML11-	4.65
Without insulation support 	#20 (Ø 1mm)		
	SM24W3- / SM24WL3- SM20W3- / SM20WL3-	SC24W3- / SC24WL3- SC20W3- / SC20WL3-	4
	#16 (Ø 1.6mm)		
	SM16M1- / SM16ML1-	SC16M1- / SC16ML1-	6.35
	SM14M1- / SM14ML1-	SC14M1- / SC14ML1-	6.35
Power contacts 	#12 (Ø 2.4mm)		
	82911457- / 82911459- 82911461- / 82911463- 82911465- / 82911467-	82911456- / 82911458- 82911460- / 82911462- 82911464- / 82911466-	7 to 8
	#8 (Ø 3.6mm)		
	82913601- / 82913603- 82913605- / 82913607- 82913609-	82913600- / 82913602- 82913604- / 82913606- 82913608-	6.5 to 7.5

Note: See page 165 for plating options and other contact details

Wire Stripping Solder and Screw Versions

		Stripping length L
Solder contact delivered with connector 	#16 (Ø 1.6mm) & #20 (Ø 1mm)	
		5
Screw contact delivered with connector 	#16 (Ø 1.6mm)	
		5.8

Note: all dimensions are in mm

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):

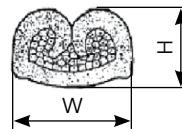
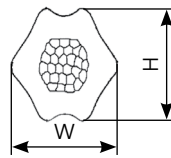
- Efficient processing of connections at each production level
- Processing by fully-automatic or semi-automatic crimping machines, or with hand operated tools
- No cold-soldered joints
- No degradation of the spring characteristic of female contacts by the soldering temperature

- 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 pull forces are indicated in the tables below:



Machined contact



Stamped & Formed contact



Active contact part	Contact type	Die location on heads	Wire section range	Section (mm ²)	Tensile straight test (mini)	Height (mm) H (±0.075)	Width (mm) W (±0.075)	Tooling head p/n
Machined contacts size #20 Ø 1 mm	RM24W3K RC24W3K	26/24	AWG 26	0.12 min	15 N	0.95	1.27	S20RCM
			AWG 24	0.25 max	32 N			
	RM20W3K RC20W3K	22/20	AWG 22	0.32 min	40 N	1.26	1.78	
			AWG 20	0.50 max	60 N			
	RM18W3K RC18W3K	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 Ø 1 mm	SM24WL3TK6* SC24WL3TK6*	26/24	AWG 26	0.12 min	15 N	0.80	1.49	S20SCM20
			AWG 24	0.25 max	32 N			
	SM20WL3TK6* SC20WL3TK6*	22/20	AWG 22	0.32 min	40 N	1.01	1.53	
			AWG 20	0.50 max	60 N			
Machined contacts size #16 Ø 1.6 mm	RM28M1K* RC28M1K*	30/28	AWG 30	0.05 min	11 N	1.14	1.41	S16RCM20
			AWG 28	0.08 max	11 N			
	RM24M9K* RC24M9K*	26/24	AWG 26	0.12 min	15 N	1.15	1.41	
			AWG 24	0.25 max	32 N			
	RM20M13K* RC20M13K* RM20M12K* RC20M12K*	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			
	RM16M23K* RC16M23K*	20	AWG 20	0.50 max	60 N	1.66	2.18	
			18	AWG 18	0.82 max	90 N	1.80	2.28
			16	AWG 16	1.50 max	150 N	1.96	2.43
	RM14M30K* RC14M30K*	16	AWG 16	1.50 min	150 N	2.10	2.68	S16RCM14
			14	AWG 14	2.50 min	230 N	2.30	
	S & F contacts size #16 Ø 1.6 mm	SM24ML1TK6* SC24ML1TK6*	26/24	AWG 26	0.12 min	15 N	0.84	1.50
AWG 24				0.25 max	32 N			
SM20ML1TK6* SC20ML1TK6*		22/20	AWG 22	0.32 min	40 N	1.02	1.54	
			AWG 20	0.50 max	60 N			
SM16ML11TK6* SC16ML11TK6*		18	AWG 18	0.82 min	90 N	1.32	2.09	S16SCML11
		16	AWG 16	1.50 max	150 N	1.36	2.10	
SM16ML1TK6* SC16ML1TK6*		18	AWG 18	0.82 min	90 N	1.49	2.02	S16SCML1
		16	AWG 16	1.50 max	150 N	1.7	2.05	
	SM14ML1TK6* SC14ML1TK6*	14	AWG 14	2.50 max	230 N	1.79	2.58	

*: example of plating options, for other plating see page 164

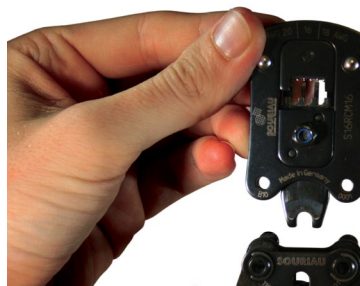
Handle & Interchangeable Heads

User Guide

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



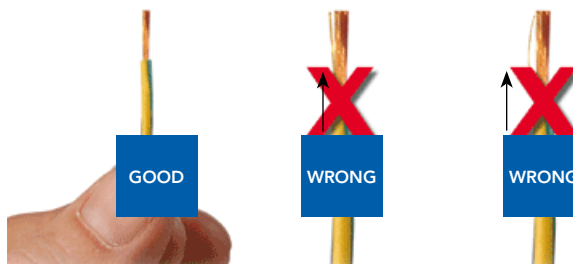
- 2) Choose the adapter head (sold separately), keep vertical and slide it into the handle until the mechanical end.



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



- 4) Strip the cable properly check the recommended size in the catalog on page 176.



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



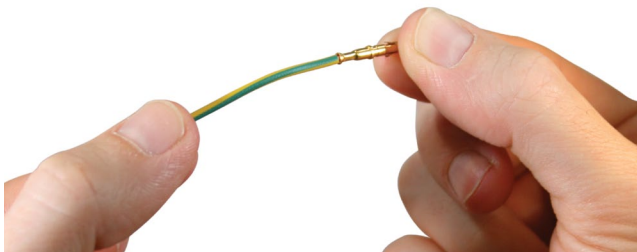
- 6) Position the contact in the bottom of the tool by checking its orientation.



- 7) To crimp contact assembly-cable, tighten sharply the clip to the end of the mechanism (maxi 175N).



- 8) To control crimp quality, slightly pull cable with two fingers to control retention.



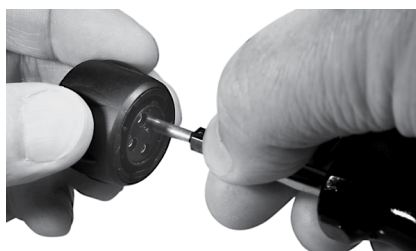
Extraction Tools

Contact size	Extractor
#20 Ø 1 mm	RX20D44
#16 Ø 1.6 mm	RX2025GE1
#12 Ø 2.4mm	51060210924
#8 Ø 3.6mm	51060210936

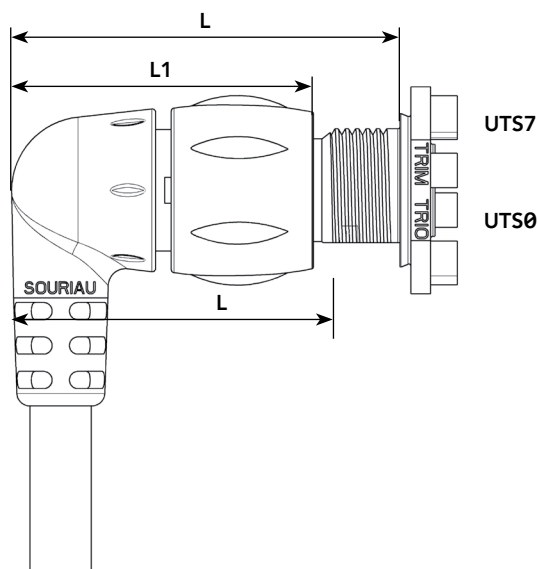


Contact extraction instruction

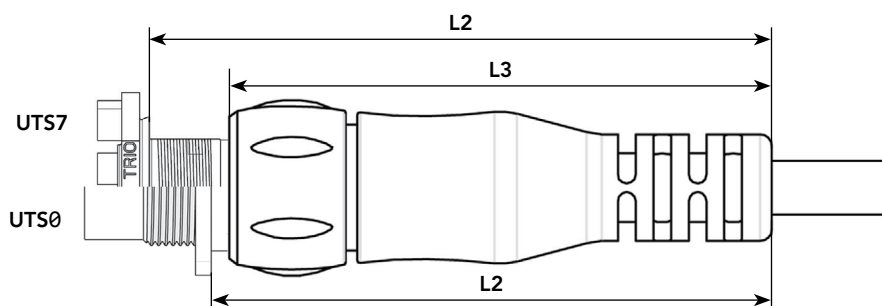
Place the tool into the cavity from front face of the connector, push on the handle, then remove the contact.



Overmoulded Cable Assembly Dimensions



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



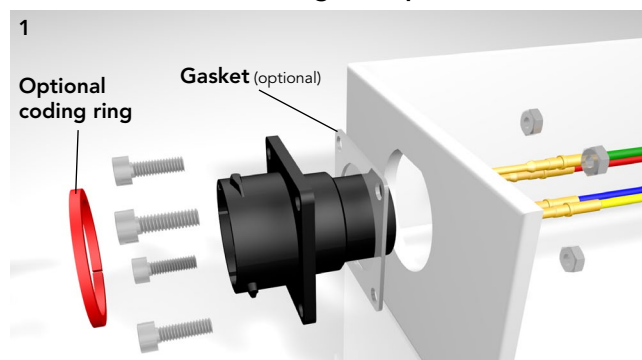
Note: all dimensions are in mm

Assembly Instructions

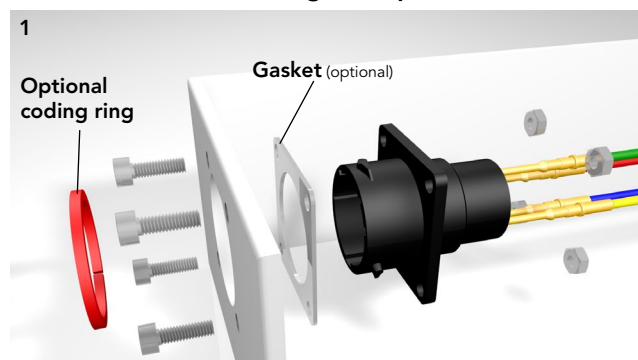
UTS0 Assembly (Mounting Suggestion)

- Strip wires, crimp or solder contacts (see pages 176 & 177)
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts)
- Place receptacle in the panel cut-out
- Secure receptacle with screws (not supplied)
Tighten screws: M2.5 (recommended torque: see table below)
- For complete sealing of the system use optional gasket and sealed screw solution (not sold by SOURIAU).

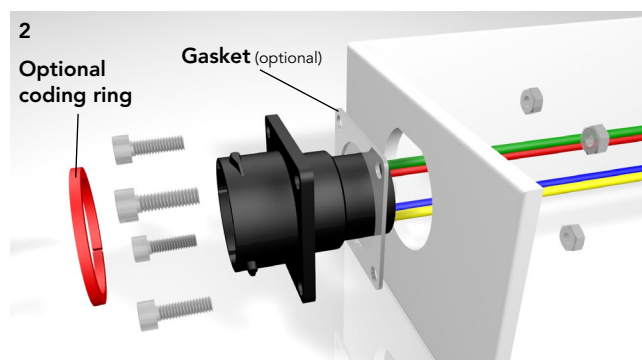
Front mounting: Crimp version



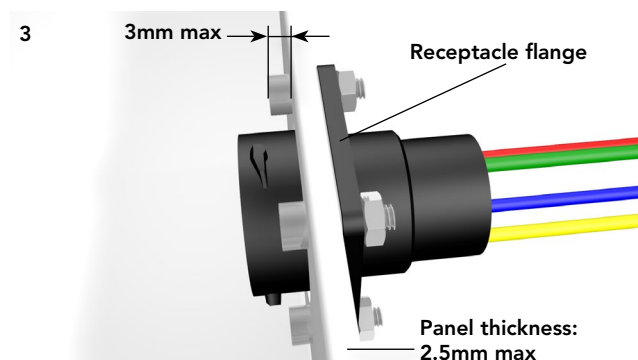
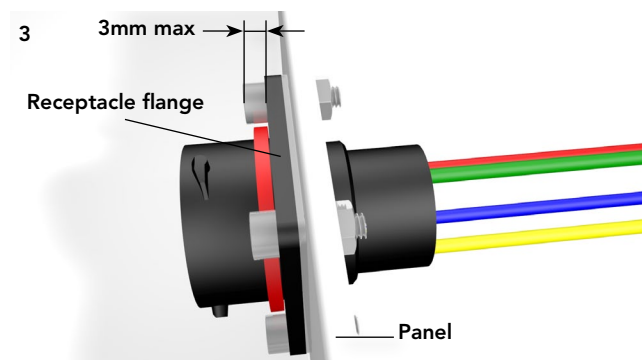
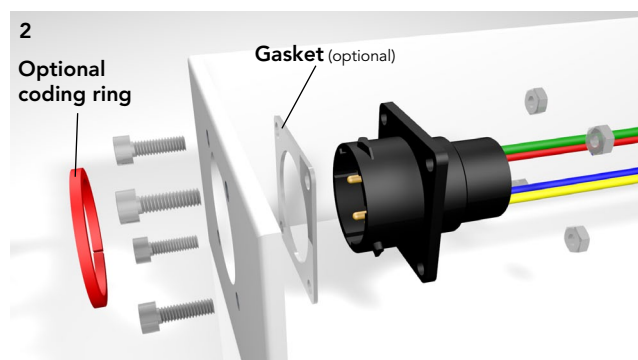
Rear mounting: Crimp version



Front mounting: Solder version



Rear mounting: Solder version



	Shell size				
	10	12	14	16	18
Screw tightening torque (Nm)	0.30/0.40	0.30/0.40	0.30/0.40	0.30/0.40	0.35/0.45

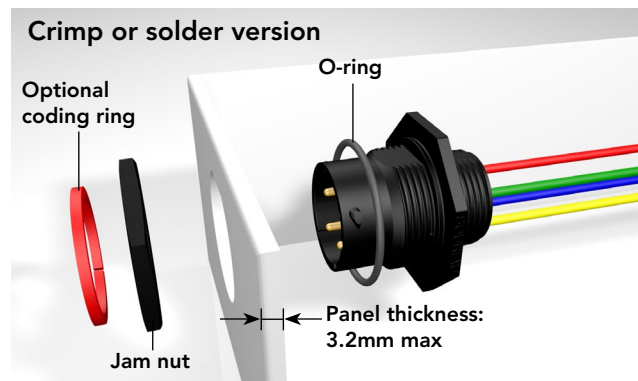
UTS7 Assembly (Mounting Suggestion)

- Strip wires and crimp contacts (see pages 176 & 177)
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts)
- Seat o-ring, place receptacle in the panel cut-out
- Tighten jam nut

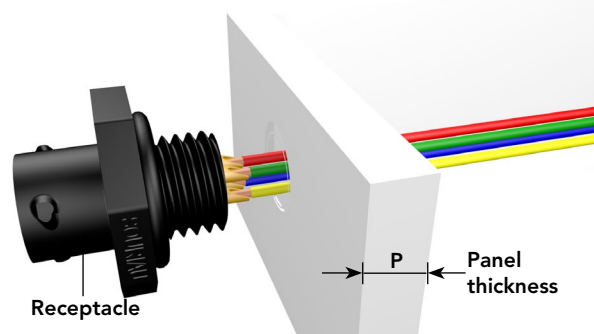
Shell size	Jam nut torque (Nm) maxi	Exterior jam nut dim. (mm)	Ø Wire	
			Standard version	Discrete wire sealing
8	1.5	19.0	3.2 mm max.	from 1.7 mm to 3.0 mm
10	3	22.2		
12	4	27.0		
14	5	30.1		
18	5	36.5		

Threaded receptacle

Shell size	Jam nut torque (Nm) maxi	Threading	P mini (mm)
8	2.5	M12 x 1.5	7.7
10	3.75	M16 x 1.5	
12	3.75	M20 x 1.5	10.4
14	4.18	1/2"	8.3
18	4.76	3/4"	11.6



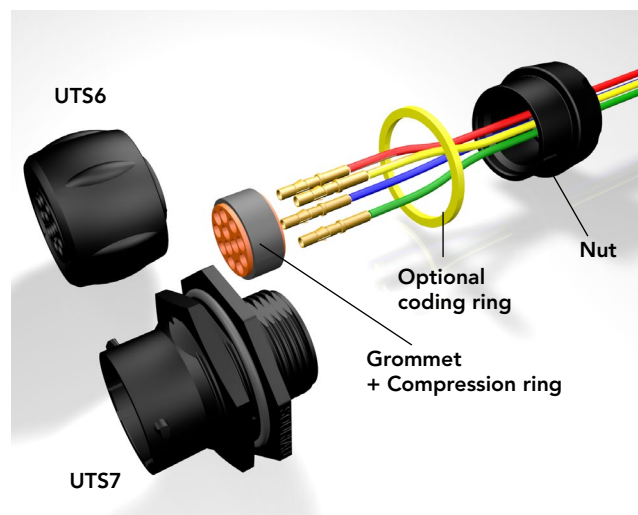
Threaded version



UTS6 or UTS7 with GN Backshell Assembly

- Strip wires and crimp contacts (see pages 176 & 177)
- Insert first contact into the grommet (first contact in cavity A, no tool is required). Then insert the contact in the connector cavity A (insert manually or use tool RTM205)
- Insert the other contacts
- Tighten the nut to rear of either UTS6 or UTS7 (recommended torque values to be applied according to the table below).

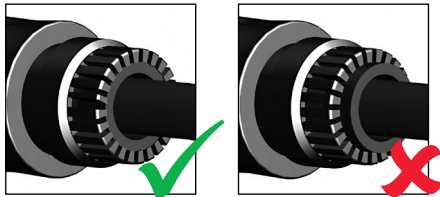
Shell size	layout	Nut tightening torque (Nm)	Ø Wire
10	4	1	From 1.7 mm to 3.0 mm
12	8	1.5	
14	7	1.5	
14	12	1.5	



Assembly Instructions (Continued)

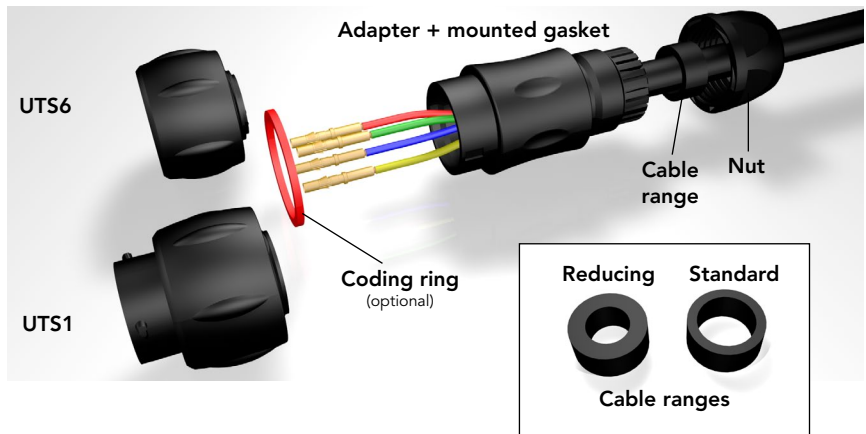
UTS1JC or UTS6JC Assembly: Crimp Version

- Slide accessories onto the cable



Make sure the seal is positioned as shown.

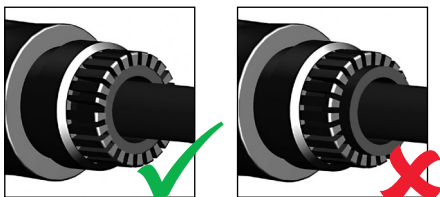
- Mate the plug with a corresponding counter part
- Strip external cable jacket
- Strip wires and crimp contacts (see pages 176 & 177)
- Insert contacts into connector cavities (insert manually or use tool RTM205)
- Tighten adapter with plug UTS6 or receptacle UTS1, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTS1 or UTS6 (recommended torque values to be applied according table to the right)
- Caution: only one of both delivered gasket should be used !



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	1	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	
18	37	45	4	3.5	9.0/18.0	7.0/16.0	

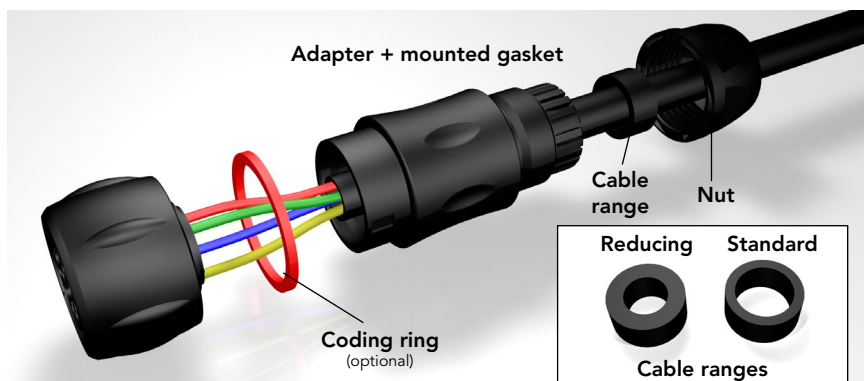
UTS6JC Assembly: Solder Version

- Slide accessories onto the cable



Make sure the seal is positioned as shown.

- Mate the plug with a corresponding receptacle
- Strip external cable jacket
- Strip wires and crimp contacts (see pages 176 & 177)
- Insert contacts into connector cavities (insert manually or use tool RTM205)
- Tighten adapter with plug, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTS6 (recommended torque values to be applied according table to the right)
- Caution: only one of both delivered gasket should be used !

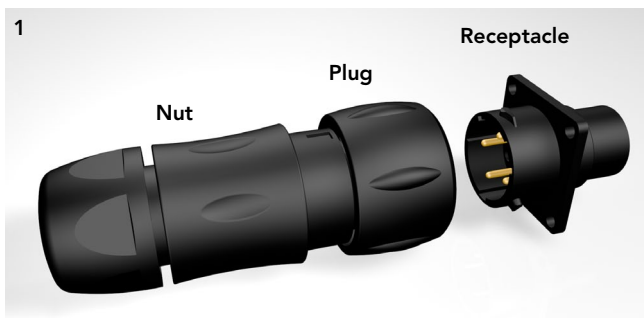


Shell size	Recommended jacket strip length (mm)	Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal	Ø Cable range Reducing seal	Ø Wire
	Male					
8	17	1	0.75	2.5/6.5	1.5/5.0	From 1.7 mm to 3.0 mm
10	21	1.5	1	2.5/8.0	1.5/5.0	
12	25	2	2.5	5.0/12.0	3.0/9.0	
14	29	3	2.5	7.0/14.0	5.0/12.0	

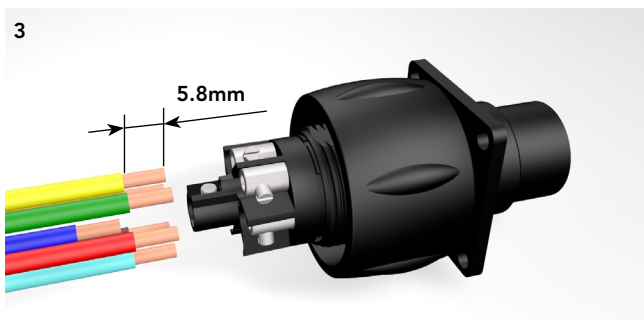
Note: all dimensions are in mm

UTS6JC Screw Termination Assembly

- Mate the plug with a corresponding receptacle equipped with its contacts
- Choose and place right seal depending on cable diameter (see table below)



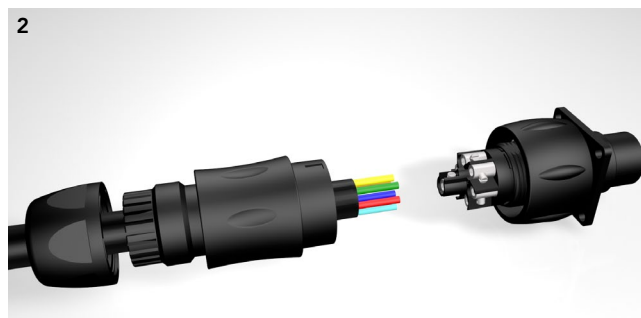
- Strip the wires (strip length 5.8 mm)



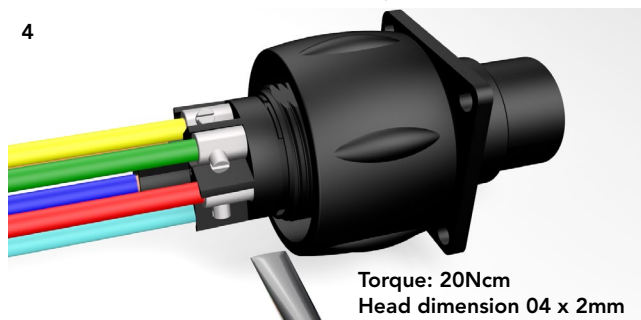
- Check the mechanical cable retention, by gently pull the cable with 2 fingers
- Tighten adapter with the plug (recommended torque: see table)



- Slide accessories on the cable
- Strip external jacket (see table below).



- Place the conductors in the contact barrel. Make sure all conductor strands are inside the barrel
- Tight the contact screws, advised torque 20 Ncm



- Tighten backshell nut with adapter (recommended torque: see table below) (cables should not turn into the backshell during this operation).



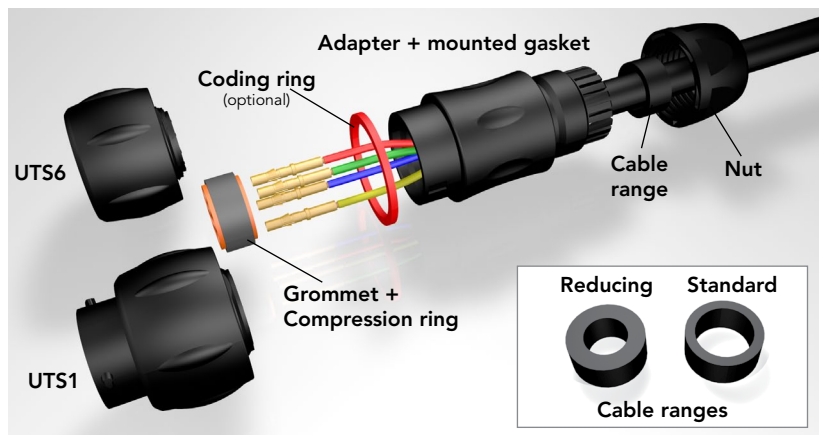
Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal	Ø Cable range Reducing seal	Ø Wire
	Male	Female					
12	22.8 max	15.1 max	2	2.5	5.0/12.0	3.0/9.0	From 1.7 mm to 3.0 mm
14	26.7 max	18.9 max	3	2.5	7.0/14.0	5.0/12.0	

Note: all dimensions are in mm

Assembly Instructions (Continued)

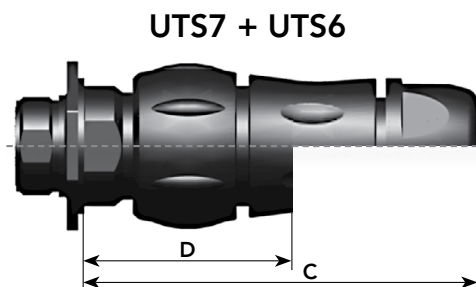
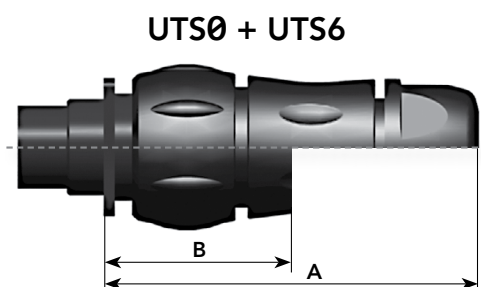
UTS1GJC or UTS6GJC Assembly

- Slide accessories onto the cable (make sure to keep compression ring on the grommet)
- Strip external cable jacket
- Strip wires and crimp contacts (see pages 176 & 177)
- Insert first contact into the grommet (first contact in cavity A, 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 adapter with plug UTS6 or receptacle UTS1, choose right seal(waste the other seal)
- Tighten the nut to rear of either UTS1 or UTS6 (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 Lengths



Shell size	UTS0 + UTS6 JC & GJC	UTS0 + UTS6 GN	UTS7 + UTS6 JC & GJC	UTS7 + UTS6 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

Mating Procedure

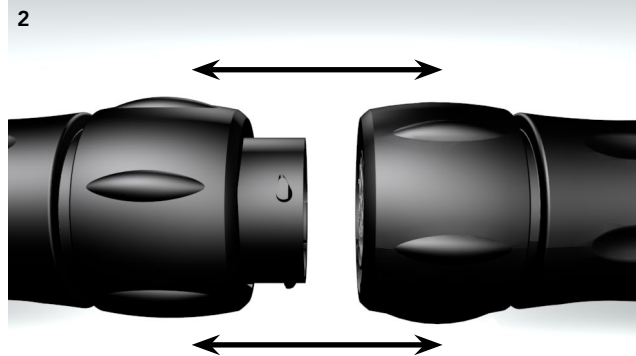
UTS Coupling Procedure

The pictures below provide step by step instructions on how to mate a plug and receptacle connector in order to avoid damaging any of the contacts.

- Identify the primary key of each connector.



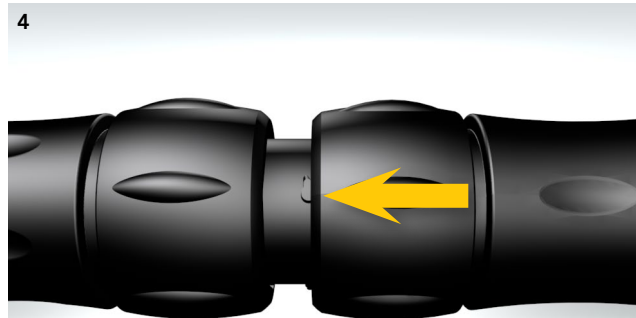
- Align the primary keys of the connectors.



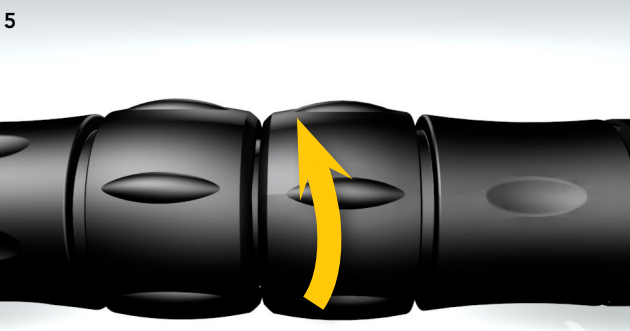
Non correct positioning:



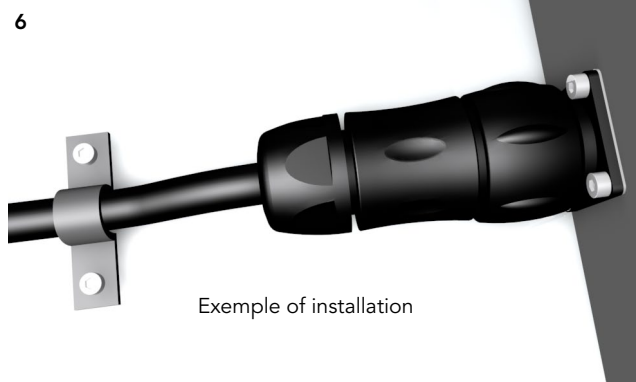
- Offer the plug to the receptacle.



- Turn coupling ring until you hear a 'click'



Fastening of cable: In order to avoid any mechanical stress on the connection, cable could be clamp closed to the connector in such a way there is no bending or traction applying on the connector.



Exemple of installation

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 in dissipating 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 placing 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 – 1.5mm² wires

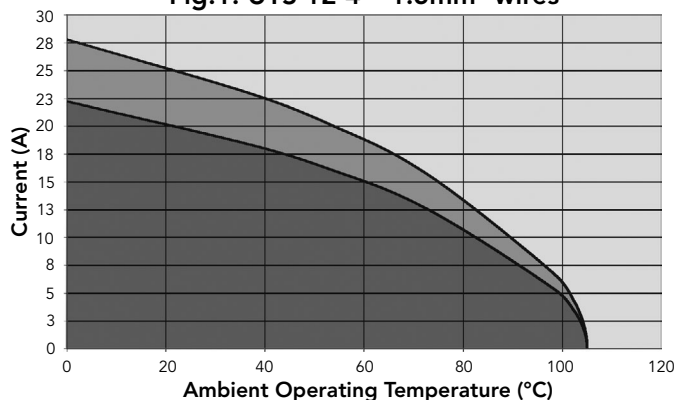


Fig.2: UTS 12-8 – 1.5mm² wires

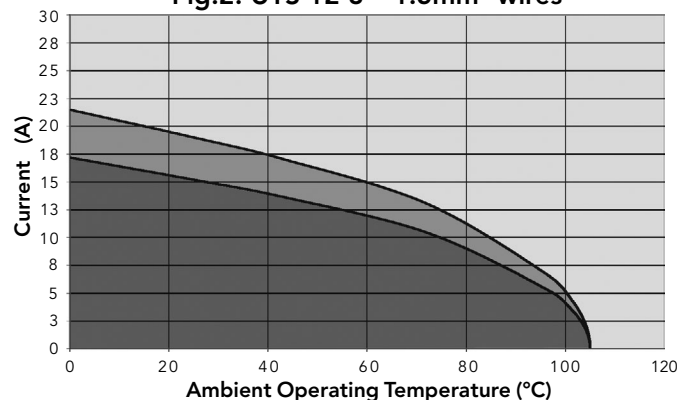
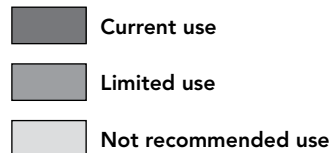
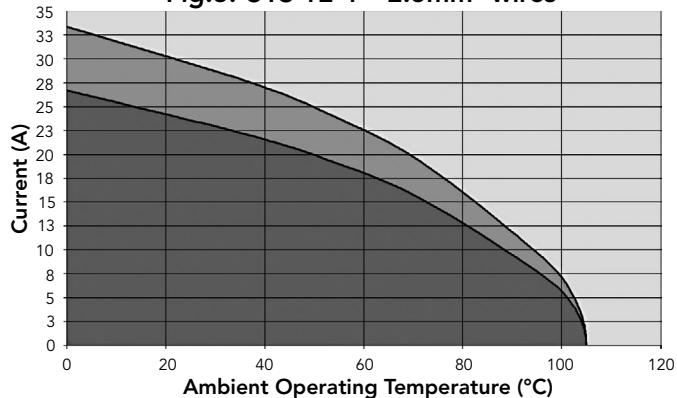


Fig.3: UTS 12-4 – 2.5mm² wires



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

Exposure in Natural Environment

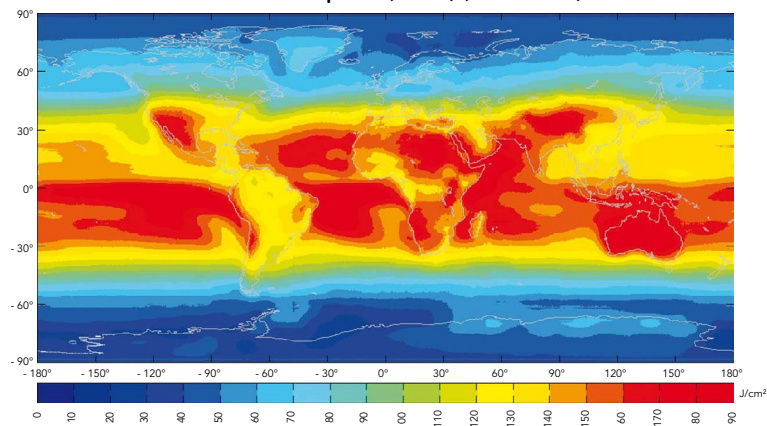
Solar radiation affects all materials, but plastics can be susceptible to extreme degradation over time. The choice of materials for the UTS series was therefore a critical consideration.

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/cm²) (1990-2004)



UL94 + UL1977

Underwriter Laboratories



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

UL94

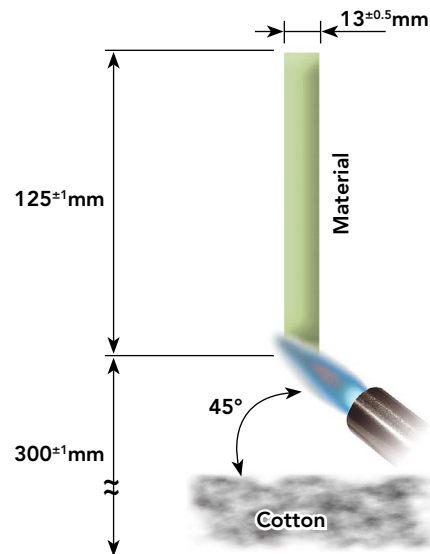
This standard is dedicated to plastics flammability. It characterises how the material burns in various orientation and thicknesses.

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.

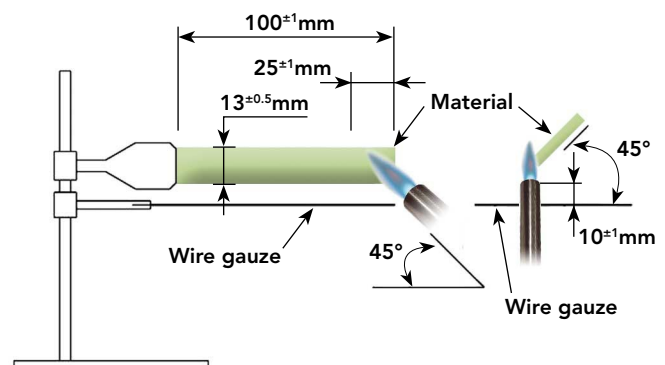
V-0 Vertical burning:

- Specimens must not burn with flaming combustion for more than 10 seconds after each 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 classified 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 classified 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 classified HB shall cease to burn before the 100 mm reference mark.



UL1977

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 taking into account intensity and voltage. The categories are as follows:

	0	30 V (42 V peak)	600 V
0	Type 0		Type 1A
31 A	Type 1B		Type 2
			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.

UL94 + UL1977 (Continued)

Underwriter Laboratories  US

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 3.2mm 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 shown 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 catalog 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 & IP Codes Explained

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. Depending on your application connectors should be compliant with another standard. This has to be double checked with the customer.

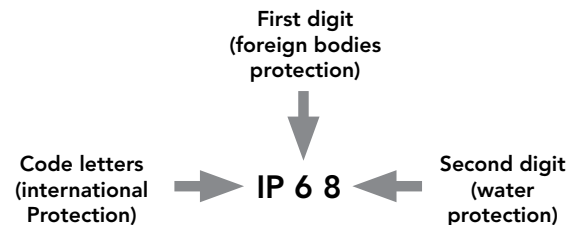
There are a lot of constructional requirements and performances specified in that standard. Most of them are illustrated in greater details hereafter.

Provisions for earthing:

The UTS connector is intended to be used on Class I or Class III (see IEC 61140) systems. Even if the purpose of our connector is not to interrupt current, there is a need to add a protective earth contact. 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 attached to the ground wire.

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 st digit	Degree of protection	2 nd digit	Degree of protection
0	No protection against accidental contact. No protection against solid foreign bodies.	0	No protection against water.
1	Protection against contact 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 contact 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	Same as 3 however diameter is bigger than 1 mm.	4	Splash-proof. Protection against splashed water from all directions.
5	Full protection against contact. Protection against interior injurious dust deposits.	5	Hose-proof. Protection against water (out of a nozzle) from all directions.
6	Total protection against contact. 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 & IP Codes Explained (Continued)

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

IEC 61140 Explained

IEC 61140

On a daily basis, we are using many electrical appliances, some are grounded, and some are not. The levels of grounding protection are clearly defined by the International Electrotechnical Commission standard IEC 61140, a standard that has an influence on our connectors and how they should be used; our customers therefore need to pay particular attention to the three categories defined within this standard to ensure compatibility with their system. Everything explained hereafter is valid for connectors not intended to interrupt current.

Class I:

Devices which belong to this category have their chassis grounded via the ground wire (green/yellow in Europe, green in the US, Canada and Japan). A fault in the appliance might cause a live conductor to energize the casing. In this case, the current flows to the ground conductor and the circuit interrupter will cut off the power supply. In case of the UTS series, it means the envelope (coupling ring, backshell and housing) may become live, therefore, care needs to be taken to attach the connector to the ground. This is usually done via the ground conductor using a splice between the ground contact and the housing.

Class II:

Products in this category have reinforced insulation, meaning that the casing does not need to be connected to ground. In this case, the possibility of electric shock has been removed. Most of the time, reinforced insulation means double insulation, i.e. the second layer will take over the first one in case the first one fails. The UTS series is not designed to comply with this standard, so we cannot recommend it for this product category.

Note: UL 1310 also defines a class II device, but in that case this is just to set the upper limit of use, like a wall charger for our cell phone.

Class III:

In this category, electrical appliances are fed by a low voltage source (<48VAC or < 120VDC). In normal conditions live conductors can be accessible without any risk for the end user. No particular attention needs to be taken in regards to UTS series when it comes to a class III device.

Conclusion:

UTS series can be used in class I and class III environments, but each category affects the product performance. Throughout the catalog, current and voltage ratings have been given for class I devices keeping in mind the ground conductor needs to be attached according to recommended wiring instructions.

Note: Special applications like recreational vehicles are not under the scope of the IEC 61140.

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	IP68
Type 1	•							
Type 3				•				
Type 3R		•						
Type 3S				•				
Type 4						•		
Type 4X						•		
Type 6							•	
Type 6P								•
Type 12			•					
Type 13					•			

• indicates compliance

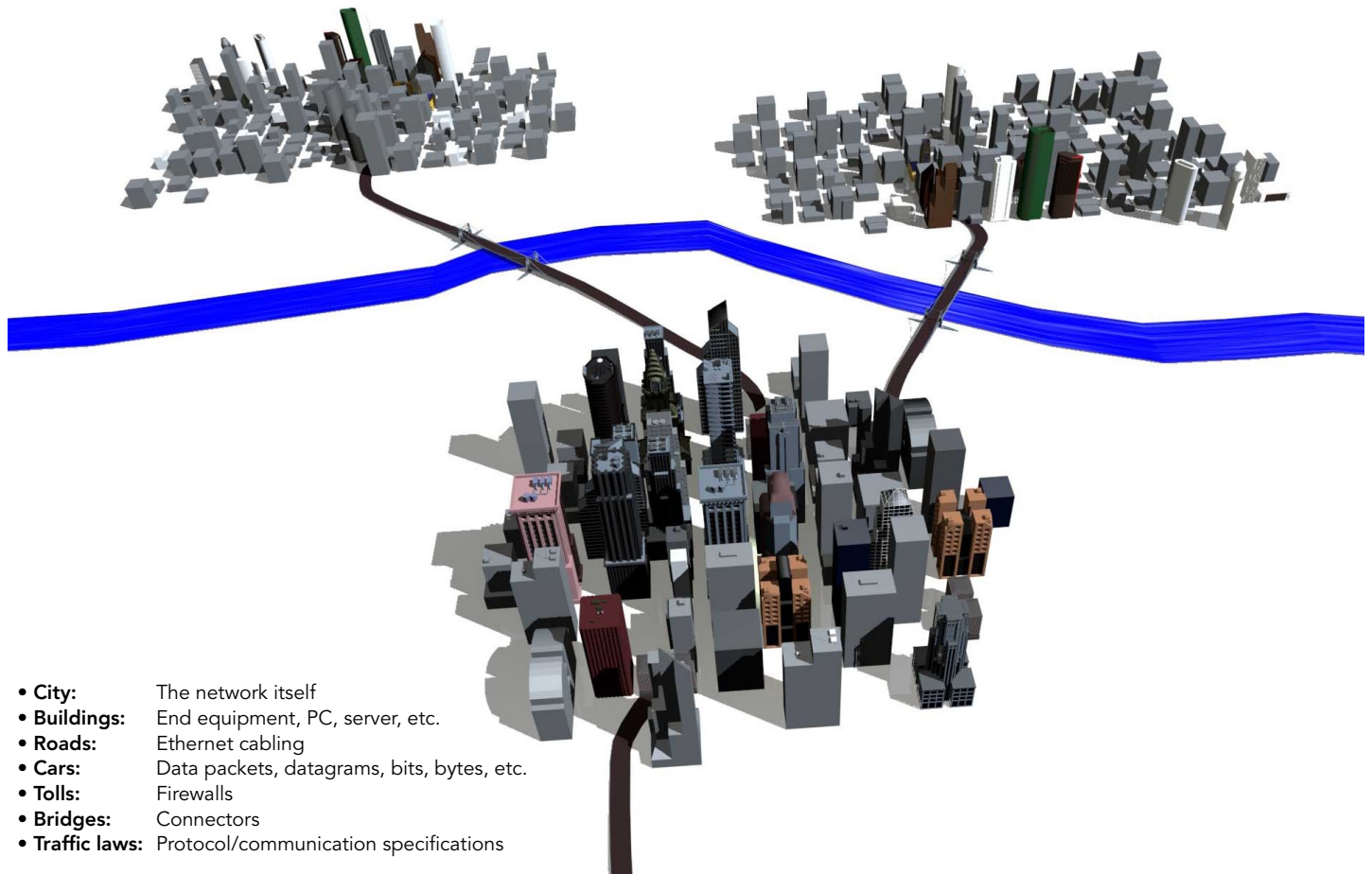
Type 6 rating can be either Type 6 or Type 6P - please see below:



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	IP68	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/Cat6. What does it all mean?

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

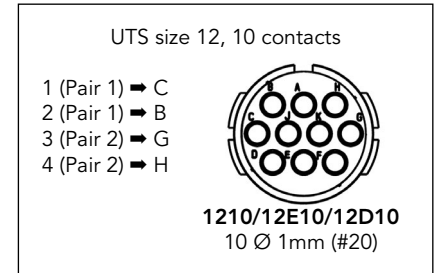
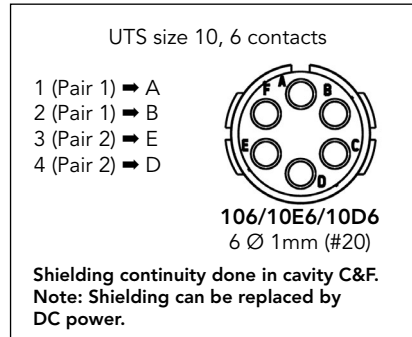
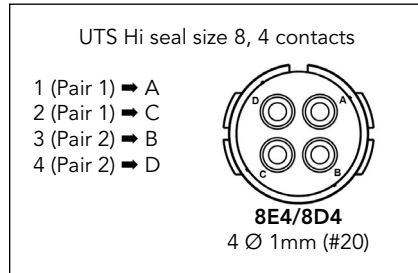
- 100Mhz is a measurement of Frequency for the signal
 - Comparable to the Speed Limit of a highway
- 100BaseTX (or Fast Ethernet) is an Ethernet link standard and identifies available link bandwidth. The bandwidth is measured in units of Mbits/S (megabits per second)
 - Comparable to the number of cars that pass a point in one second
- Cat5e/Cat6 are an EIA/TIA standard for performance 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 and one for receive. This way data traffic can flow in both directions simultaneously.

Ethernet for the Layman (Continued)

Souriau offering:

Standard solutions.



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

Appendices

■ #16 Coaxial Contacts/Cabling Notices	200
■ Glossary of Terms	207
■ Discrimination/Keying Methods	208
■ Part number Index	209

#16 Coaxial Contacts

Coaxial Cable - Contact Monocrimp and Multipiece

Cable type	Impe- dance	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		
RG/188A/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	0.06"	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	RCDXK1D28
PRD PN 247AS- C1123-001	-	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	0.054v	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

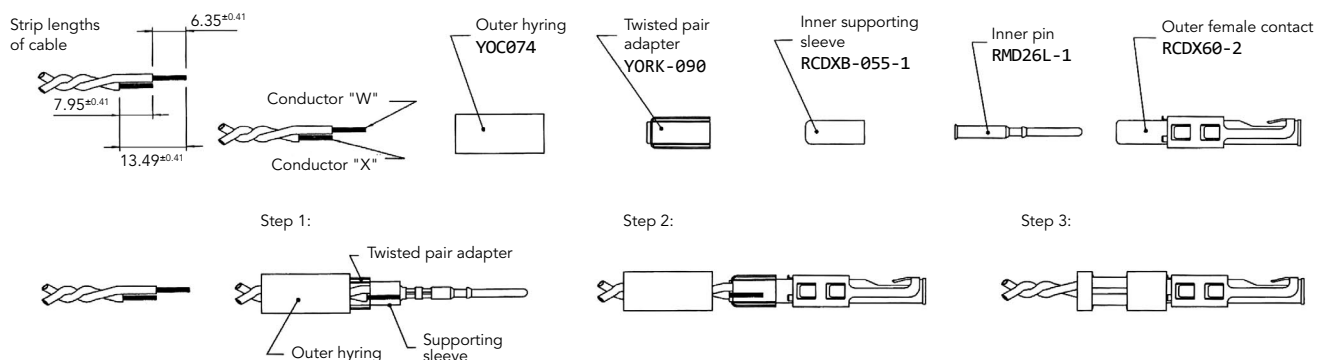
Cable type	Contact type	Inner AWG cond	Ø over jacket (single wire)		Inner cond size		Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	Stranded definition	Ext. Ø mm	inch	mm		
2#24 stranded MIL-W-16878 type B	Multi piece	24	0.049"	1.24 max	7/.008	-	-	-	RMDXK10D28	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-W-16878 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 + YORX090	RCDX6031D28 + YORX090
20218201		-	0.028"	0.71	-	-	-	-	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090
#30 solid		-	0.025"	0.64	-	-	-	-	RMDX6015D28 + YORX090	RCDX6015D28 + YORX090
#26 7/.0063		26	0.028"	0.71	7/.063	0.16	-	-	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090
#26 19/.004		26	0.049"	1.24	19/.004	-	-	-	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
#24 7/.008		24	0.049"	1.24	7/.008	-	-	-	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
#24 19/.005		24	0.057"	1.45	19/.005	-	-	-	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
-		26	-	1.25	-	-	-	19x0.1	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
-		24	-	1.25	-	-	-	7x0.2	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
-		24	-	1.45	-	-	-	19x0.13	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
-		26	-	0.7	-	-	-	7x0.16	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090

#16 Coaxial Contacts (Continued)

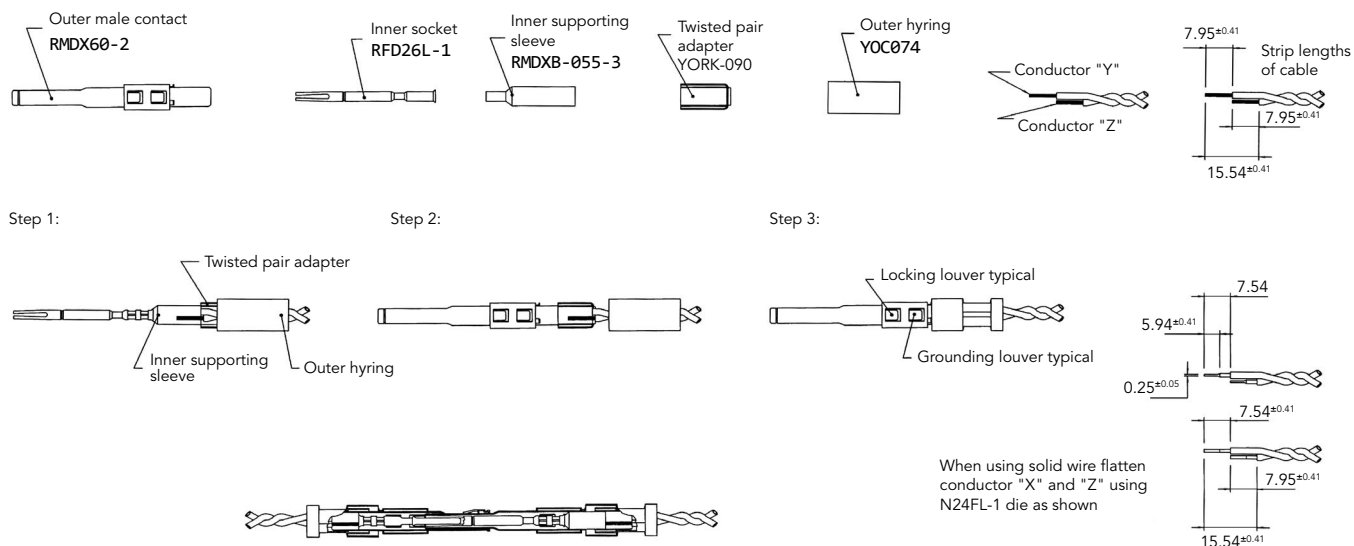
Twisted Pair Cable Multipiece Contact Cabling

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



Male contact

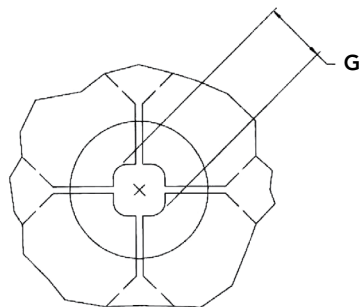
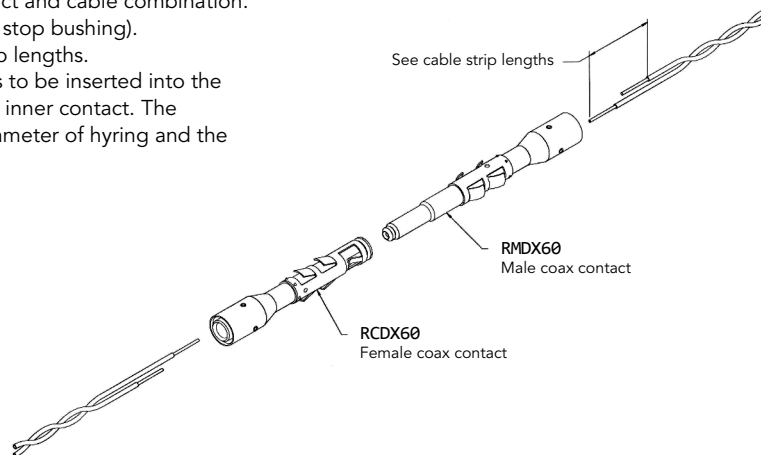
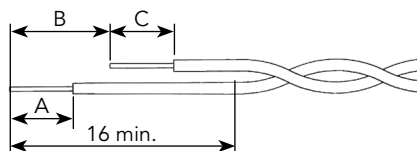


Twisted Pair Cable Monocrimp Contact Cabling

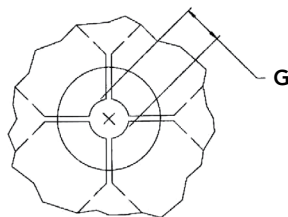
Cable reference	Contact type	Male contact	Female contact	Crimp tool	Die set	Stop bushing	Cable strip length			Inner conductor crimp		Braid crimp	
							A	B	C	g dim	t dim	g dim	t dim
#28 7/.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090	M10S1J	S80	SL105	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 7/.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 19/.004					M10SG8 ASSY'Y TOOL DIE SET STOP BUSHING M10S1J 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 7/.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 19/.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)					M10SG8 crimping kit		4.7	6	4				
AWG24 (7x0.2)													
AWG24 (19x0.13)													
AWG26 (7x0.16)					S80	SL105							

- 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 hyring, and pushed forward into the inner contact. The second cable is to be inserted between the outside diameter of hyring and the inside diameter of the outer contact body.
- Crimp the contact.

Cable strip length



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 (Continued)

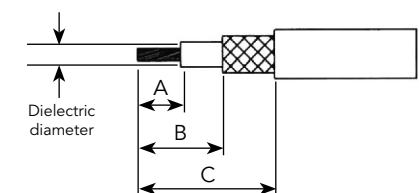
Multipiece Male Contact with Coax Cable

Cable reference	Contact	Hying complementary compoments	Outer contact crimp tool		Inner contact crimp tool		Cable strip length		
			Crimp tool M10S1J		Crimp tool M10S1J				
			Die set	Stop bushing	Die set	Stop bushing	A	B	C
RG161U	Male: RMDXK10D28	YOC074	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					4.37		7.95	15.88	
RG174/U		YOC074 + RMDXB0553			S26D2		4.37	7.95	15.88
RG178A/U					S23D2		7.54	9.12	17.53
RG196U							7.54	9.12	17.53
AMPHENOL 21-598					YOC074		-	4.37	7.95
surprenant pn 8134		-					4.37	7.95	15.88

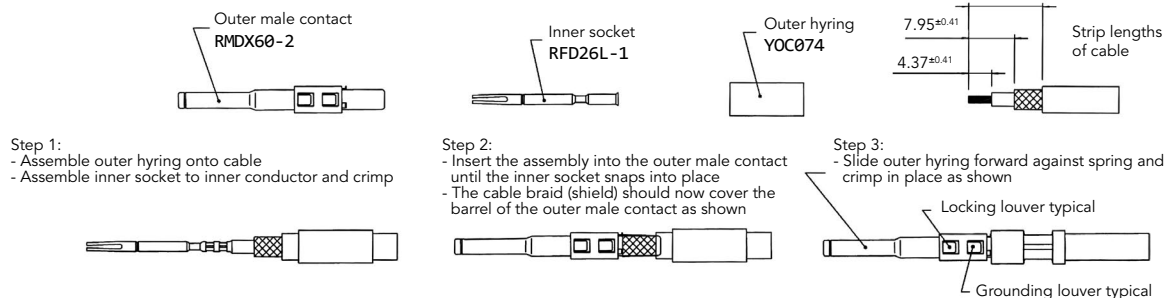
Multipiece kit details

RMDXK10D28 includes	RMDX60D28	Outer contact
	RFD26L1D28	Inner contact
	YOC074	Outer hying
	RMDXB0553	Inner supporting sleeve

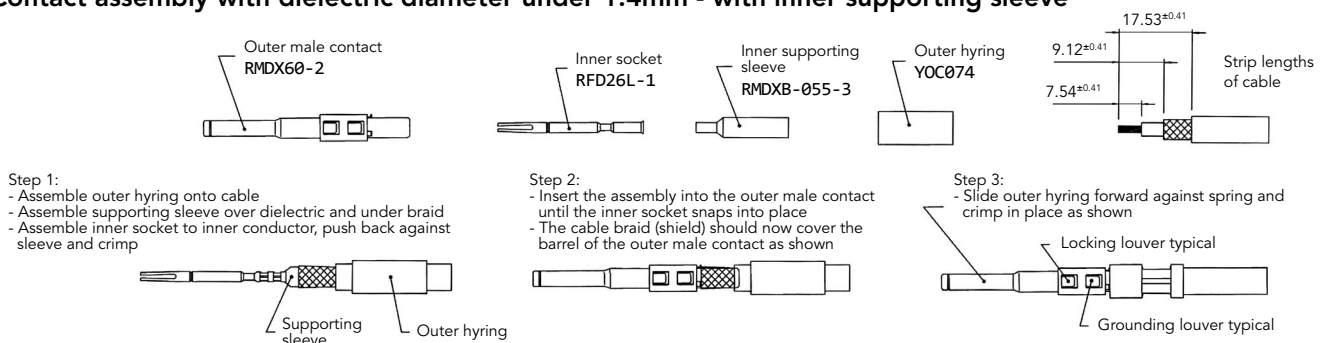
Cable strip length



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



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



Note : all dimensions are in mm

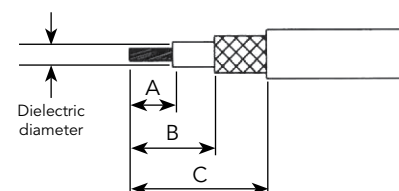
Multipiece Female Contact with Coax Cable

Cable reference	Contact	Hying complementary compoments	Outer contact crimp tool		Inner contact crimp tool		Cable strip length			
			Crimp tool M10S1J		Crimp tool M10S1J					
			Die set	Stop bushing	Die set	Stop bushing	A	B	C	
RG161U	Female: RCDXK1D28	YOC074	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		YOC074 + RMDXB0553			S26D2		4.37		11.13	
RG178A/U					S23D2		6.35		11.13	
RG196U							6.35		11.13	
AMPHENOL 21-598					YOC074		-		4.37	11.13
surprenant pn 8134							-		4.37	11.13

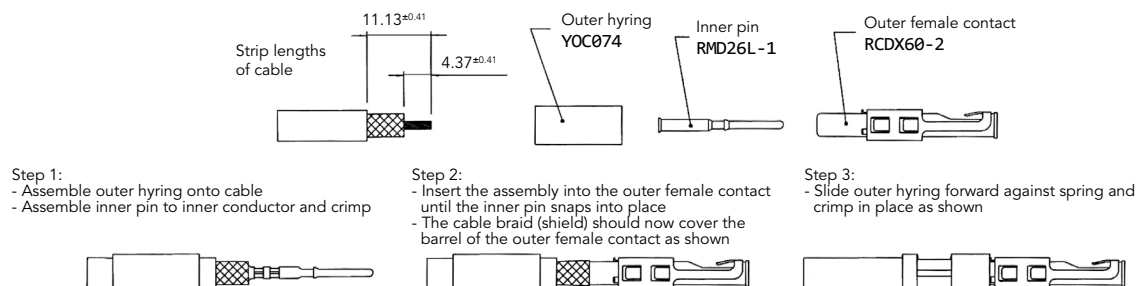
Multipiece kit details

RCDXK1D28 includes	RCDX60D28	Outer contact
	RMD26L1D28	Inner contact
	YOC074	Outer hyring
	RCDXB0553	Inner supporting sleeve

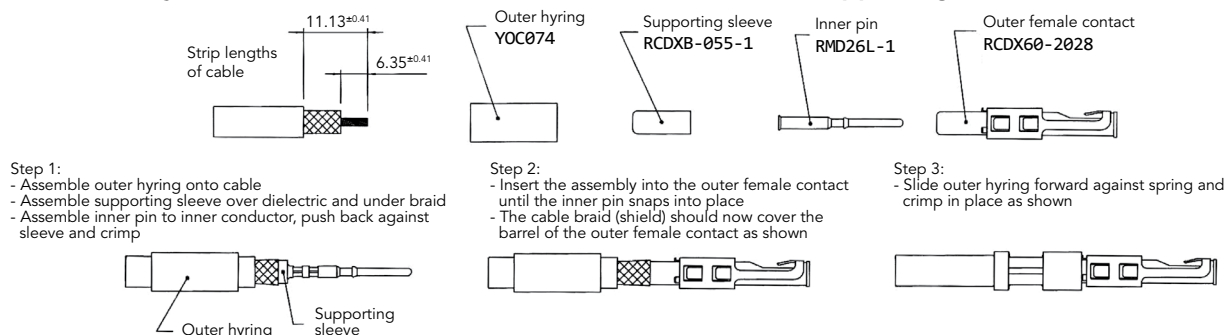
Cable strip length



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



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



Note : all dimensions are in mm

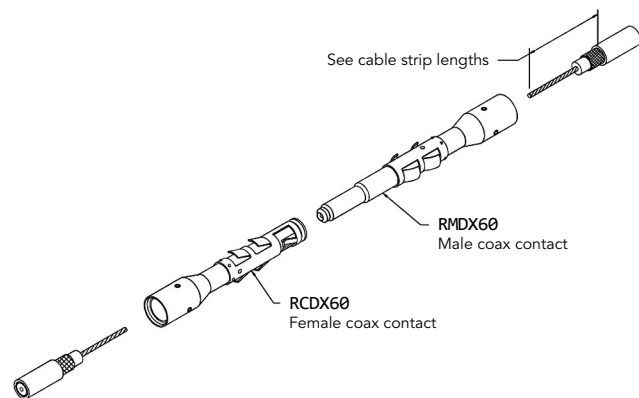
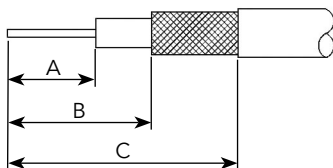
#16 Coaxial Contacts (Continued)

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	M10S1J	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-C1123-001	RMDX6018D28	RCDX6018D28		M10SG8 ASSY'Y TOOL DIE SET STOP BUSHING M10S1J 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				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		M10SG8 ASSY'Y TOOL DIE SET STOP BUSHING M10S1J 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				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.

Cable strip length



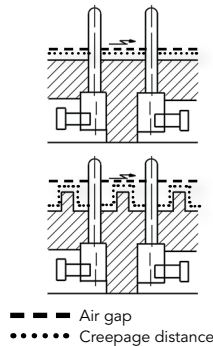
Glossary of Terms

• 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 characterise 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:

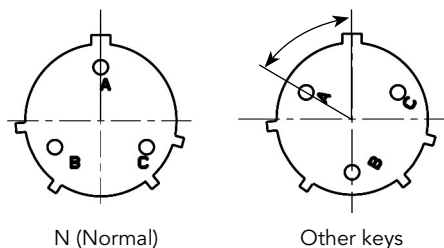
Maximum service temperature for a material, where a class of critical property will not be unacceptably compromised through chemical thermal degradation, over the reasonable life of an electrical product, relative to a reference material having a confirmed, acceptable corresponding performance defined 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 cause disturbances, system failure or even danger to operating personnel.

To eliminate mismatching, some Trim Trio® connectors are offered with discrimination keys to avoid interconnection system errors. In addition, the connector insert can also be rotated inside the shell to create custom keying options.



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)

Consult us for overmoulded harnesses.

Shell size	Layout	Discrimination keys degrees			
		W	X	Y	Z
8	8E2/8D2	58°	122°	-	-
	8E3/8D3 8E3A/ 8D3A 8E98/8D98	60°	210°	-	-
	8E4/8D4	45°	-	-	-
	8E33/8D33	90°	-	-	-
10	102W2/103	-	-	-	-
	104	45°	-	-	-
	103W3	-	-	-	-
	106 10E6/10D6	90°	-	-	-
	10E7/10D7	90°	-	-	-
	10E98/ 10D98	90°	180°	240°	270°
12	12E2/12D2	-	-	-	-
	12E3/12D3	-	-	180°	-
	124 12E4/12D4	-	-	-	-
	128	26°	-	-	-
	12E8/12D8	90°	112°	203°	292°
	1210 12E10/12D10	60°	155°	270°	295°
	12E14/12D14	45°	-	-	-
	14E5/14D5	40°	92°	184°	273°
14	142G1	-	-	-	-
	147 14E7/14D7	-	-	-	-
	148	-	-	-	-
	1412	60°	-	-	-
	1492	49°	71°	145°	-
	14E12/14D12	43°	90°	-	-
	14E15/14D15	17°	110°	155°	234°
	14E18/14D18	15°	90°	180°	270°
	1419	30°	165°	315°	-
	14E19/14D19	30°	165°	315°	-
	183G1	-	-	-	-
	18X2M3	-	-	-	-
18	1823	-	158°	-	270°
	1832 18E32/18D32	85°	138°	222°	265°

SMSPKE0 (only for UTS layouts using #16 contacts)

When one of these dummy contacts is used, the UTS connector will only mate with a connector which has a vacant cavity at the corresponding position.

The material used is polyamide 6.6.



Part Number Index

Connectors

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UTS010D6S.....	P. 84	UTS014D15S.....	P. 132	UTS1GN1412P.....	P. 116
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UTS710D6P32.....	P. 84	UTS014D18S.....	P. 136	UTS1GN1492P.....	P. 124
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UTS710D6S32.....	P. 84	UTS014D19S.....	P. 140	UTS1JC102W2S.....	P. 64
UTS010D98P.....	P. 88	UTS014D5P.....	P. 72	UTS1JC103P.....	P. 28
UTS010D98S.....	P. 88	UTS014D5S.....	P. 72	UTS1JC103S.....	P. 28
UTS010E6P.....	P. 84	UTS014E12P.....	P. 120	UTS1JC103W3P.....	P. 80
UTS010E6S.....	P. 84	UTS014E12S.....	P. 120	UTS1JC103W3S.....	P. 80
UTS010E7P.....	P. 96	UTS014E15P.....	P. 132	UTS1JC104P.....	P. 68
UTS010E7S.....	P. 96	UTS014E15S.....	P. 132	UTS1JC104S.....	P. 68
UTS010E98P.....	P. 88	UTS014E18P.....	P. 136	UTS1JC106P.....	P. 84
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UTS0128P.....	P. 100	UTS014E19S.....	P. 140	UTS1JC1210S.....	P. 112
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