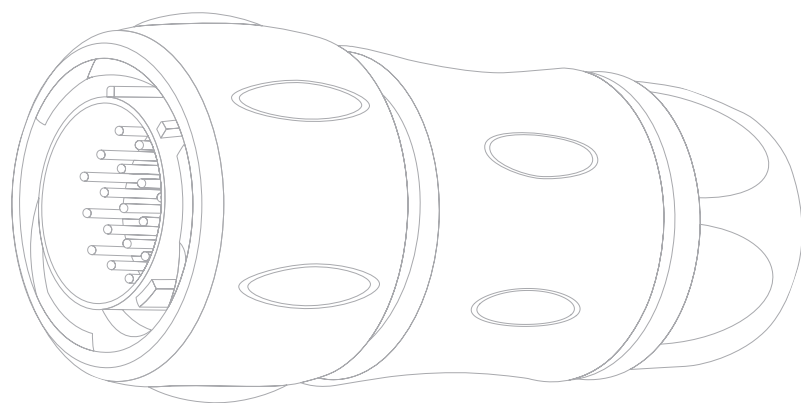


Plastic circular connectors
Souriau TRIM TRIO® UTSX series



Powering Business Worldwide



UTSX series

plastic circular connectors

Typical applications



Upgraded for higher performance

The Souriau UTSX series is a full-plastic, waterproof circular connector designed for harsh environments. The UTSX series features reinforced bayonet pins and a broader range of layouts, sizes and mechanical keyings when compared to its predecessor, the UTS series.

Interchangeable with other Souriau TRIM TRIO® connectors

Part of the Souriau TRIM TRIO® connector line, the UTSX series shares a unique design of contacts that are interchangeable across several of our connector series, allowing you to simplify your supply chain and maintain the same cabling process across all ranges. The trio of contacts; machined, stamped and formed, and coaxial is used in different connector shapes with plastic or metal shells, bayonet or push-pull coupling mechanisms. For series that are intermateable, such as the UTS, UTGX and UTO series, you can easily switch from one series to the other across the applications in your operation.

Reliable connections in harsh environments

UTSX series connectors are waterproof, lightweight, withstand 250 mating cycles and are manufactured from materials that have UV and corrosion resistant properties. They are IP68/69K rated even in dynamic conditions and available with multiple contact layouts for design flexibility, including hybrid power/signal and hybrid copper/fiber.

Easy, quick and safe to use in a wide range of applications

The easy to grip connectors have a one-third bayonet coupling to confirm the connection with an audible and tactile click. The UTSX series is compliant with IEC and UL standards and resistant to shock, ensuring safe connections for installers and operators. The UTSX series is perfect for outdoor solar and wind management applications, as well as conditions where humidity or corrosive agents would compromise metal components – applications that range from off-road machinery to instrumentation and water management.



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Souriau UTSX series

Range overview

UTSX series



Cable sealed



Plug without backshell



Plug with backshell

UTSX backshells

Cable sealing



Double sealing
(wires + cable)



Grommet

Contacts supplied separately



Choice of crimp contacts
Machined / Stamped and formed / Coaxial

PCB
Fiber optic

Contacts loaded
Handsolder Screw

UTSX Hi-seal



Plug without backshell



Plug with backshell

Plug



Overmolded cable
assembly



For more information on our overmolding solutions, please contact us.

UTSX standard receptacle

Square flange



Jam nut



Free hanging



Jam nut



Contacts supplied separately



Choice of crimp contacts

Machined / Stamped and formed / Coaxial

PCB
Fiber optic

UTSX backshells

Cable sealing only for square flange



UTSX backshells

Cable sealing



Double sealing
(wires + cable)



Grommet

Contacts supplied separately



Choice of crimp contacts

Machined / Stamped and formed / Coaxial

PCB
Fiber optic

Contacts loaded

Handsolder Screw

UTSX Hi-seal receptacle

Jam nut



Square flange



Contacts loaded

PCB
Handsolder

UTSX PCB contacts

Stand-offs to allow
cleaning after soldering



Metal hold down clips lock the
connector easily on the PCB and release
stress on solder joints. They are also
suitable for soldering the connector to
the PCB through metal holes.

Pre-assembled PCB contacts
- machined or stamped versions available
- different solder tail lengths possible
- different plating options

Low profile housing to limit space
between panel and PCB

Souriau UTSX series

Technical specifications



Technical features

Environmental

- Temperature class: 40/100/21 per NFF 61-030 from -40°C to +105°C
- Flammability rating:
 - UL94 V-0 (all UTSX except the sealed unmated version)
 - UL94 HB (UTSX sealed unmated version only)
 - R22 HL2 / R23 HL2 according to EN45545-2 (not applicable for hi-seal versions)
 - GWFI: 960°C
 - GWIT: 800°C
- Salt spray: per EIA-364-26: 500 hours
- UV resistant connector made with (f1) material according to UL746C
- Outdoor used following level 6/6P according to UL50/UL50E
- Aging validation: ISO 21207 Method B, 5 cycles. Corresponding to 27 years in an industrial environment
- Sealing:
 - UTSX standard: IP68/IP69K dynamic (mated)
 - UTSX sealed unmated version: IP68/IP69K dynamic (unmated)
 - UTSX single wire sealed: IP67/69K (up to IP68 with double sealing backshell)
 - UTSX 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

Materials

- Connector body and backshell: thermoplastic
- Insert:
 - UTSX standard, UTSX single wire sealed UTSX screw termination contacts: thermoplastic
 - UTSX Hi-seal: elastomer
- Nut: metal
- Locking ring: brass and stainless steel
- Contacts: see **Page 198**
- Halogen free
- RoHS compliant and conforms to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)

Electrical

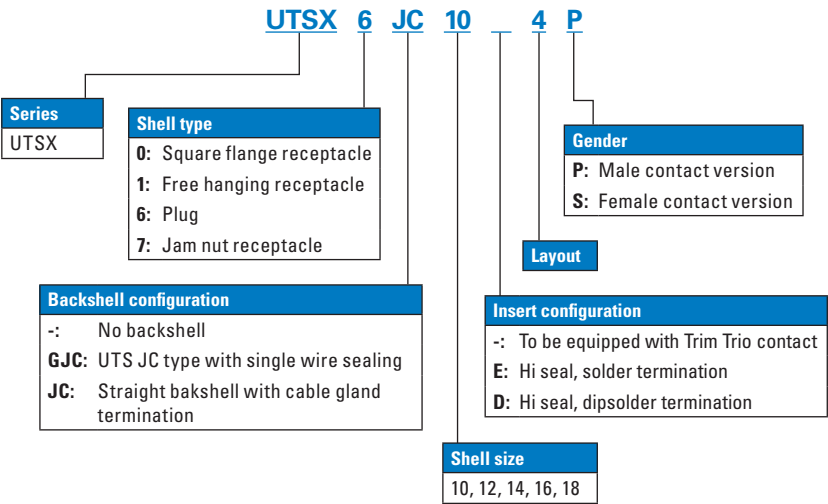
- In accordance with:
 - UL 1977: category ECBT2 file number: E169916
 - C22.2 n°182.3: category ECBT8 file number: E169916
- Voltage and current information available on **Page 10**

Mechanical

- Durability: 250 matings and unmatings according to MIL -C-26482
- Vibration resistance (all UTSX versions except UTSX screw termination contacts):
 - Sinusoidal vibrations per EN 60512-4 - from 10 to 2000 Hz
 - Sinusoidal vibrations according to CEI 60512-6-4
- Thermal shock: 5 cycles 30 min. from -40°C to 105°C per MIL -STD-1344 method 1003
- IK resistors: see table below for shock resistance

Connector type	Size 10	Size 12	Size 14	Size 16	Size 18
UTSX0 / UTSX6JC	IK03	IK05	IK05	IK04	IK06
UTSX7 / UTSX6JC	–	IK05	IK05	IK05	IK06

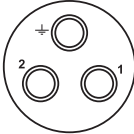
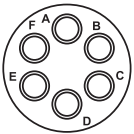
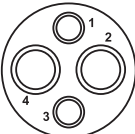
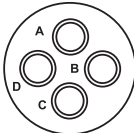
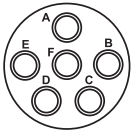
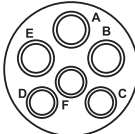
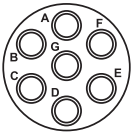
UTSX part numbers



Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #16 (Ø 0.062"/1.6 mm)	Contacts	Contact #20 (Ø 0.039"/1.0 mm)	Contacts	Hybrid and others
Description (mating face view male connectors)		Description (mating face view male connectors)		Description (mating face view male connectors)	
	103 16A/300V 2 + ground Page 23		106 – 10E6/10D6 7A/32V 6 contacts Page 70		102W2 25A/150V 4 contact 2 x Ø 2.4 (#12) + 2 x Ø 1.0 (#20) Page 45
					
	104 13A/150V 4 contacts Page 50		10E98/10D98 7A/32V 6 contacts Page 75		103W3 5A/32V 6 contacts 3 x Ø 1.6 (#16) + 3 x Ø 1.0 (#20) Page 64
					
			10E7/10D7 7A/50V 7 contacts Page 89		

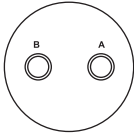
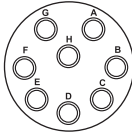
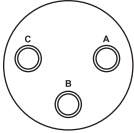
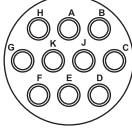
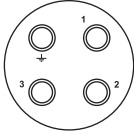
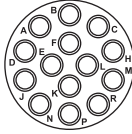
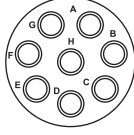
Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031"² 0.13 to 0.80 mm²	Contacts #16: from AWG 30 to 14 0.002" to 0.098"² 0.05 to 2.5 mm²	Contacts #12: from AWG 20 to 12 0.005" to 0.157"² 0.52 to 4 mm²	Contacts #8: from AWG 16 to 8 0.059" to 0.393"² 1.5 to 10 mm²
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Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #16 (Ø 0.062"/1.6 mm)	Contacts	Contact #20 (Ø 0.039"/1.0 mm)
Description (mating face view male connectors)		Description (mating face view male connectors)	
	12E2/12D2 16A/150V 2 contacts Page 23		12E8/12D8 6A/32V 8 contacts Page 102
			
	12E3/12D3 16A/150V 3 contacts Page 32		1210 – 12E10/12D10 6A/50V 10 contacts Page 120
			
	124 – 12E4/12D4 16A/150V 3 + ground Page 36		12E14/12D14 5A/32V 14 contacts Page 153
			
	128 10A/80V 8 contacts Page 97		

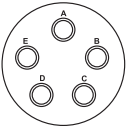
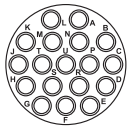
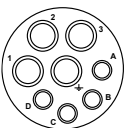
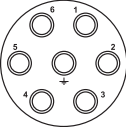
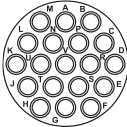
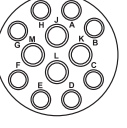
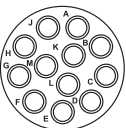
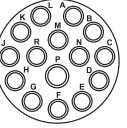
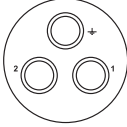
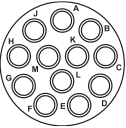
Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031" ² 0.13 to 0.80 mm ²	Contacts #16: from AWG 30 to 14 0.002" to 0.098" ² 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.020" to 0.157" ² 0.52 to 4 mm ²	Contacts #8: from AWG 16 to 8 0.059" to 0.393" ² 1.5 to 10 mm ²
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Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #16 (Ø 0.062"/1.6 mm)	Contacts	Contact #20 (Ø 0.039"/1.0 mm)	Contacts	Mixed power
Description (mating face view male connectors)		Description (mating face view male connectors)		Description (mating face view male connectors)	
	14E5/14D5 16A/150V 5 contacts Page 55		14E18/14D18 5A/50V 18 contacts Page 161		148 17A/230V 8 contacts 4 x Ø 1.6 (#16) + 3 x Ø 2.4 (#12) + ground Page 106
					
	147 – 14E7/14D7 7A/150V 6 + ground Page 84		1419 – 14E19/14D19 5A/32V 19 contacts Page 165		14E12/14D12 4A/50V 12 contacts 4 x Ø 1.6 (#16) + 8 x Ø 1.0 (#20) Page 134
		Contacts	Contact #8 (Ø 0.141"/3.6 mm)		
	1412 10A/63V 12 contacts Page 129	Description (mating face view male connectors)			14E15/14D15 4A/50V 15 contacts 1 x Ø 1.6 (#16) + 14 x Ø 1.0 (#20) Page 157
			142G1 40A/300V 2 + ground Page 28		
	1492 10A/63V 12 contacts Page 138				

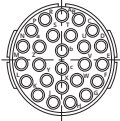
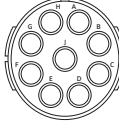
Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031" ² 0.13 to 0.80 mm ²	Contacts #16: from AWG 30 to 14 0.002" to 0.098" ² 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.020" to 0.157" ² 0.52 to 4 mm ²	Contacts #8: from AWG 16 to 8 0.059" to 0.393" ² 1.5 to 10 mm ²
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Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #20 (Ø 0.039"/1.0 mm)	Contacts	Contact #16 (Ø 0.062"/1.6 mm)	Contacts	Contact #12 (Ø 0.094"/2.4 mm)
Description (mating face view male connectors)		Description (mating face view male connectors)		Description (mating face view male connectors)	
	1626 - 16E26/16D26 4.5A/32V 26 contacts Page 184		1619 8A 32V 19 contacts Page 170		169 22A/160V 9 contacts Page 116
					
		16E8/16D8 13A/80V 8 contacts Page 112			

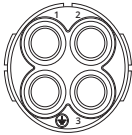
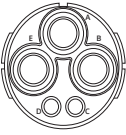
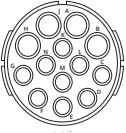
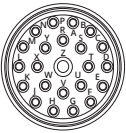
Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031" ² 0.13 to 0.80 mm ²	Contacts #16: from AWG 30 to 14 0.002" to 0.098" ² 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.020" to 0.157" ² 0.52 to 4 mm ²	Contacts #8: from AWG 16 to 8 0.059" to 0.393" ² 1.5 to 10 mm ²
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Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

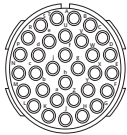
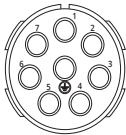
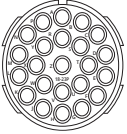
Contacts	Contact #8 (Ø 0.141"/3.6 mm)	Contacts	Mixed power
Description (mating face view male connectors)		Description (mating face view male connectors)	
	163G1 46A/400V 3 + ground Page 41		165 46A/320V 5 contacts 2 x Ø1.6 (#16) 3 x Ø 3.6 (#8) Page 59
			
			1613 23A/160V 13 contacts 4 x Ø2.4 (#12) 9 x Ø1.6 (#16) Page 143
			
			16E23/16D23 13A/32V 23 contacts 22 x Ø1.0 (#20) 1 x Ø1.6 (#16) Page 175

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031" ² 0.13 to 0.80 mm ²	Contacts #16: from AWG 30 to 14 0.002" to 0.098" ² 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.020" to 0.157" ² 0.52 to 4 mm ²	Contacts #8: from AWG 16 to 8 0.059" to 0.393" ² 1.5 to 10 mm ²
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Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.
A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #20 (Ø 0.039"/1.0 mm)	Contacts	Contact #16 (Ø 0.062"/1.6 mm)	Contacts	Contact #12 (Ø 0.094"/2.4 mm)
Description (mating face view male connectors)		Description (mating face view male connectors)		Description (mating face view male connectors)	
	1832 - 18E32/18D32 4A/32V 32 contacts Page 193		18E11/18D11 13A/40V 11 contacts Page 125		187G1 23A/250V 7 + ground Page 93
					
		1823 8A/16V 23 contacts Page 179			

Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031" ² 0.13 to 0.80 mm ²	Contacts #16: from AWG 30 to 14 0.002" to 0.098" ² 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.020" to 0.157" ² 0.52 to 4 mm ²	Contacts #8: from AWG 16 to 8 0.059" to 0.393" ² 1.5 to 10 mm ²
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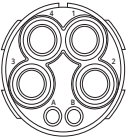
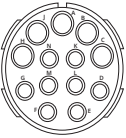
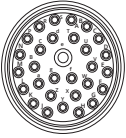
Souriau UTSX series

Layouts size 18

Layouts face male contact

Electrical parameter according to IEC61984 for a pollution degree IV and overvoltage category III.

A higher voltage can be applied by selecting the appropriate connectors and contacts. Please consult us for more information.

Contacts	Contact #8 (Ø 0.141"/3.6 mm)	Contacts	Mixed power
Description (mating face view male connectors)		Description (mating face view male connectors)	 186 46A/320V 6 contacts 4 x Ø3.6 (#8) 2 x Ø1.6 (#16) Page 79  1813 23A/160V 13 contacts 5 x Ø2.4 (#12) 8 x Ø1.6 (#16) Page 148  18E30/18D30 13A/20V 30 contacts 29 x Ø1.0 (#20) 1 x Ø1.6 (#16) Page 189

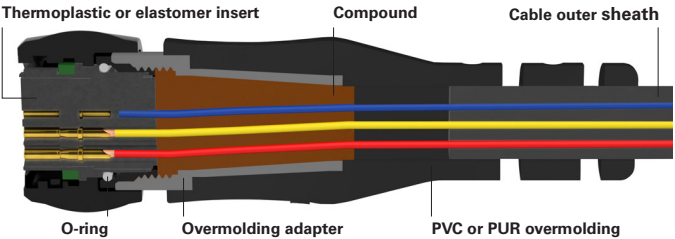
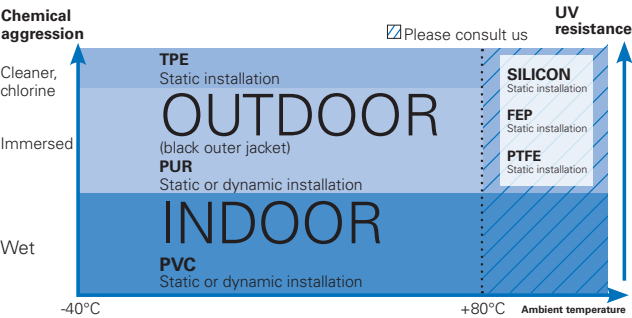
Note: Layouts in blue text are UTSX sealed unmated (Hi-seal) condition

Contacts #20: from AWG 26 to 18 0.005" to 0.031" ² 0.13 to 0.80 mm ²	Contacts #16: from AWG 30 to 14 0.002" to 0.098" ² 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.020" to 0.157" ² 0.52 to 4 mm ²	Contacts #8: from AWG 16 to 8 0.059" to 0.393" ² 1.5 to 10 mm ²
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Overmolded cable assembly

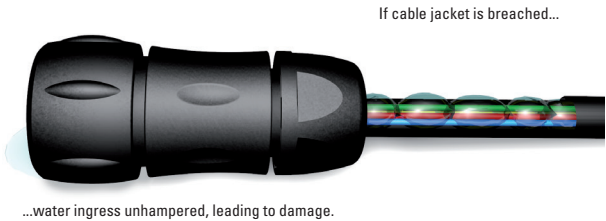
Overmolding is a process that further enhances the sealing properties of the UTSX series, especially over many years of use. Overmolding provides the opportunity to change the cable exit from straight to 90 degrees and avoid stress on the cable terminated to the connector. Also, as the wires are encapsulated inside the moulding, 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



Connector with cable gland backshell

GOOD



Overmolded connector

BEST



Souriau UTSX series

Overmolded cable assembly

UTSX waterproof plastic overmold



HAUTSX standard offering

Cable

- PVC outer sheath (grey color)
- Wire section 16 AWG for #16 contact
- Wire section 20 AWG for #20 contact
- 300V
- Unshielded
- Operating temperature: -40°C +70°C

Overmolding specifications

Plating	Salt spray	Temperature*	Waterproof*	Mechanical
No plating	500 H	-30°C up to + 50°C	IP68/IP69K dynamic (mated)	250 matings/unmatings

* With appropriate cable and overmolding

Cable information

Range of temperature	Rated voltage	Wire section	Harmonized reference
-30°C +50°C	U0/U: 300/500V	Layouts with #16 contact: wire section 0.196” ² (5 mm ²)	H05 VV - F XX

Example of customized cable assemblies



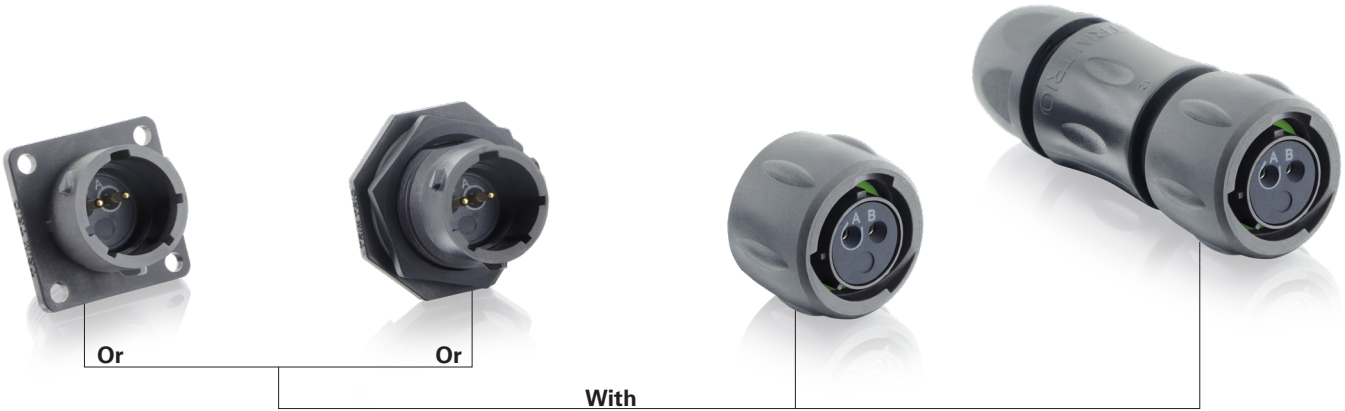
Overmolding on curly cable



Overmolding with double ends

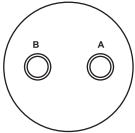


Harness for PCB connection



Connector part number

UTSX 12E2/12D2



2 contacts + ground
13A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Hand solder electrical contacts loaded see Page 21	Square flange receptacle	Without (Fig. 1)	UTSX012E2P	UTSX012E2S
	Plug	Without (Fig. 5)	UTSX612E2P	UTSX612E2S
		Cable gland (Fig. 3)	UTSX6JC12E2P	UTSX6JC12E2S
	Jam nut receptacle	Without (Fig. 4)	UTSX712E2P	UTSX712E2S
PCB contacts loaded see Page 21	Square flange receptacle	Without (Fig. 2)	UTSX012D2P	UTSX012D2S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX712D2P	UTSX712D2S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX712D2P32	UTSX712D2S32

For discrimination/keying methods see **Page 223**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

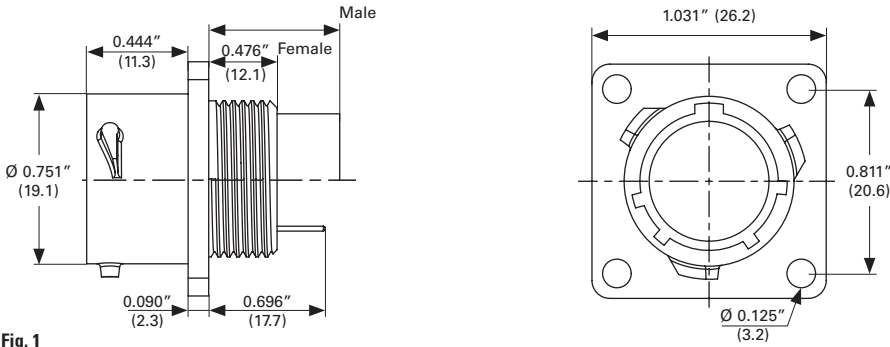


Fig. 1

Plug - UTSX6 and UTSX6JC

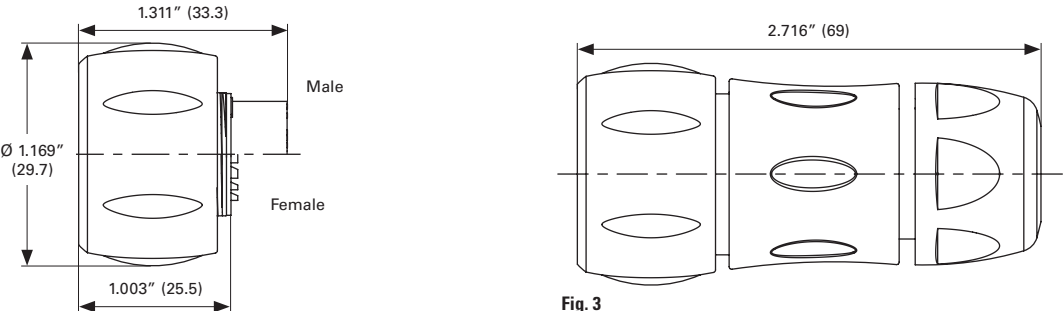


Fig. 2

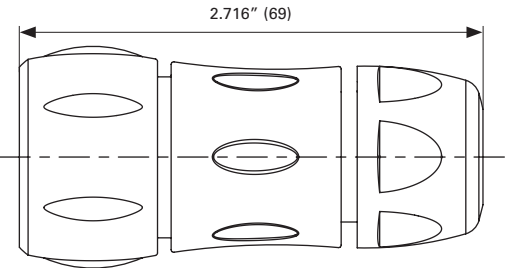


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7

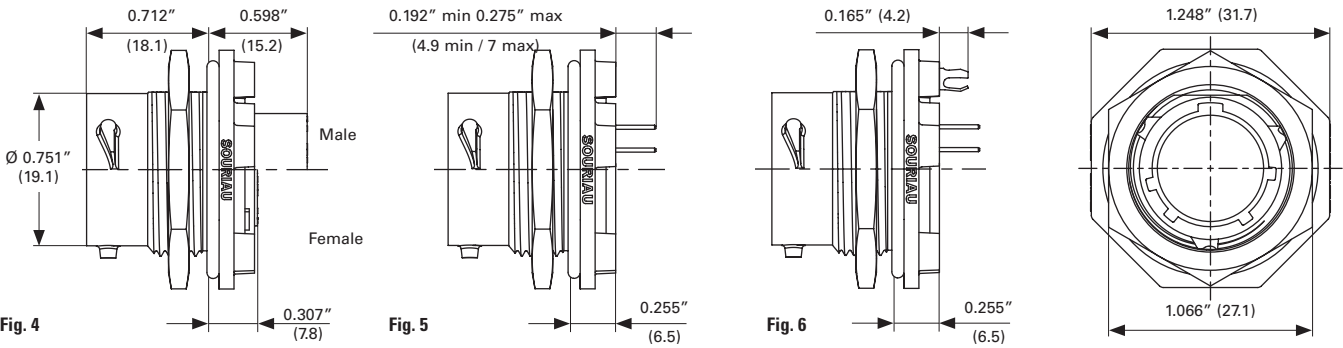


Fig. 4

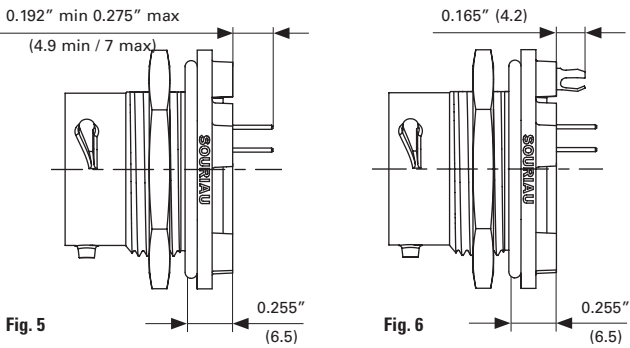


Fig. 5

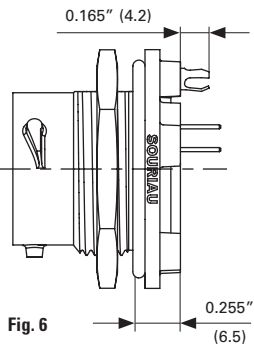
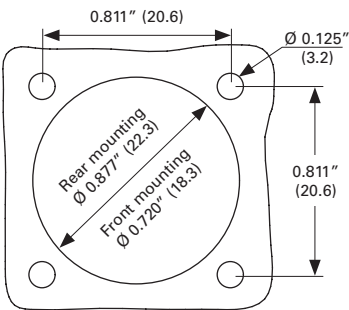


Fig. 6

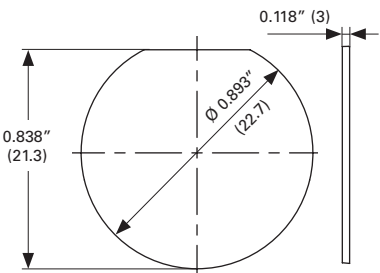
Panel cut out

Square flange receptacle - UTSX0



Dimensions in inches (millimeters)

Jam nut receptacle - UTSX7



Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



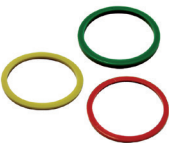
Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

Souriau UTSX series

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

Contacts #16

Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
			inch ²	mm ²	inch	mm
Handsold Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18-14	0.031"-0.098"	0.80-2.48	0.196"	5
PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—

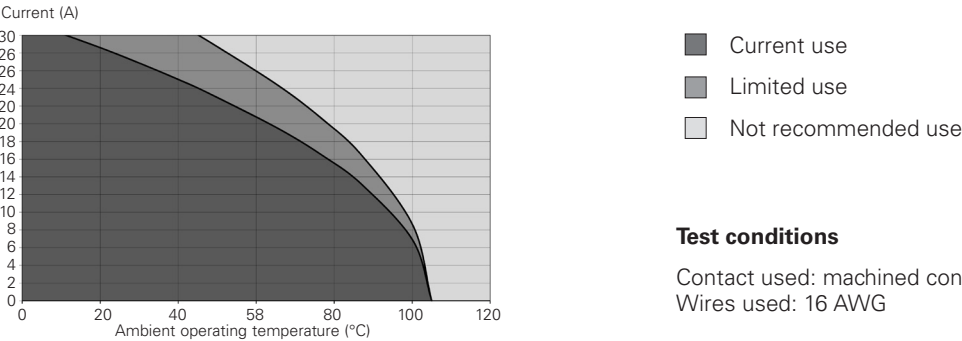
(1) For dimensions see **Page 205**

Electrical characteristics

UL	CSA	IEC
13A 600V with AWG16 wire	13A 600V with AWG16 wire	16A 150V 2.5kV 3

Electrical information according to the IEC 61984, with pollution degree IV and overvoltage category III.

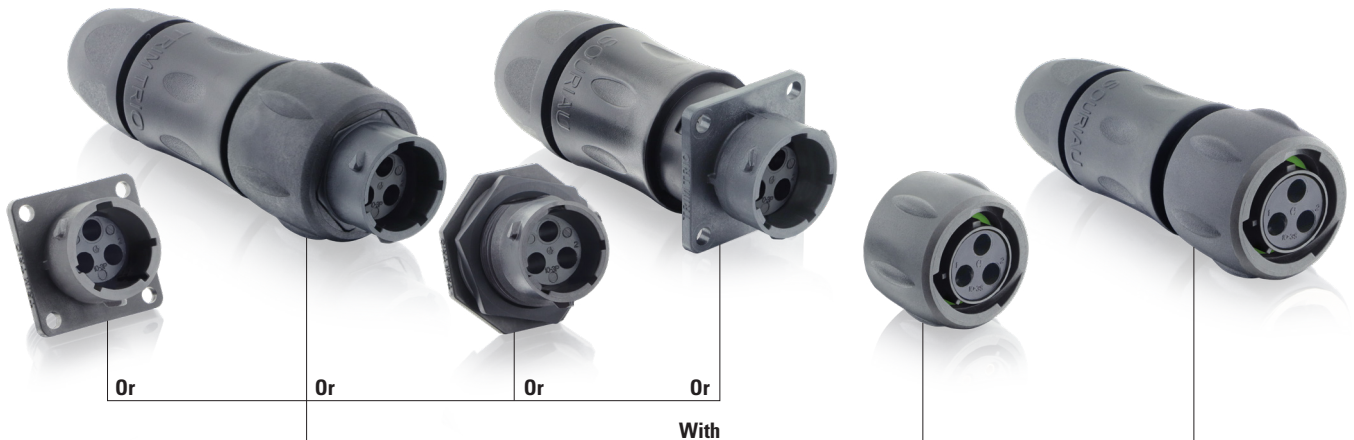
UTSX 12E2/12D2 derating curves



Test conditions

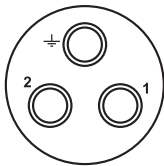
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 103



2 contacts +
ground 10A/500V
per UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 26	Square flange receptacle	Without (Fig. 1)	UTSX0103P	UTSX0103S
		Cable gland (Fig. 2)	UTSX0JC103P	UTSX0JC103S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC103P	UTSX1JC103S
	Plug	Without (Fig. 4)	UTSX6103P	UTSX6103S
		Cable gland (Fig. 5)	UTSX6JC103P	UTSX6JC103S
	Jam nut receptacle	Without (Fig. 6)	UTSX7103P	UTSX7103S
PCB contacts supplied separately see Page 27	Jam nut receptacle	Without (Fig. 7)	UTSX7103P	UTSX7103S

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

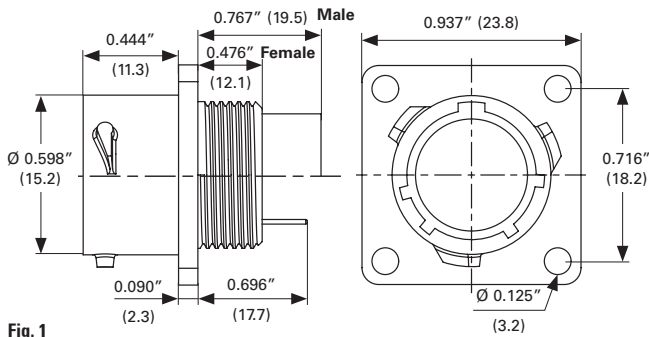


Fig. 1

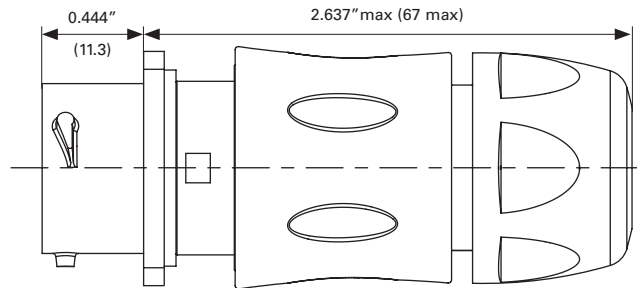


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Free hanging - UTSX1JC

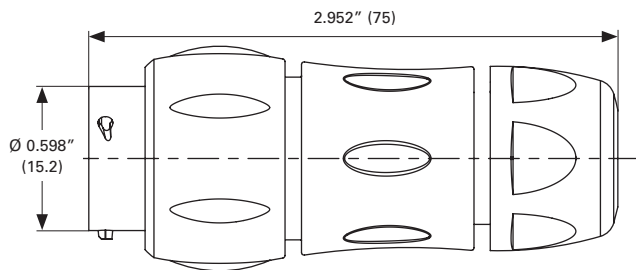


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Plug - UTSX6 and UTSX6JC

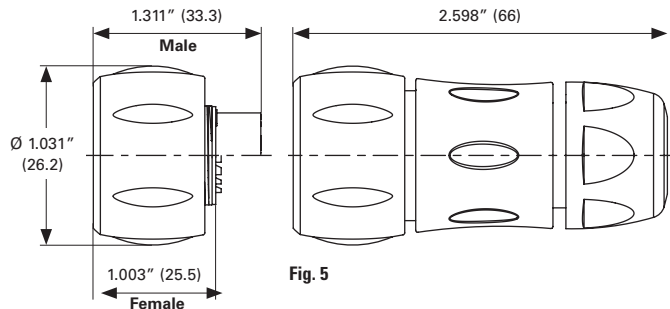


Fig. 4

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7

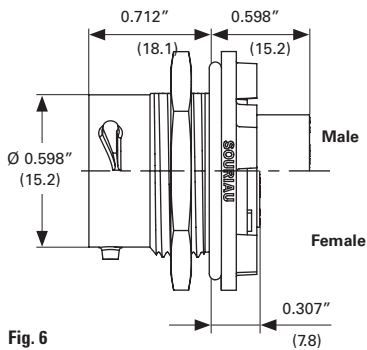


Fig. 6

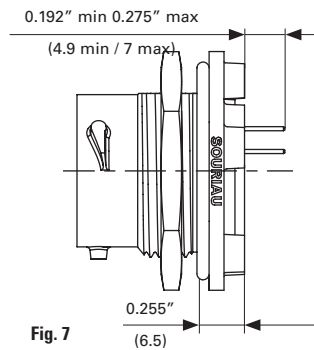
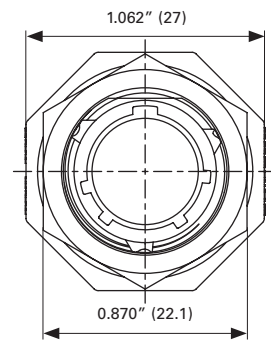
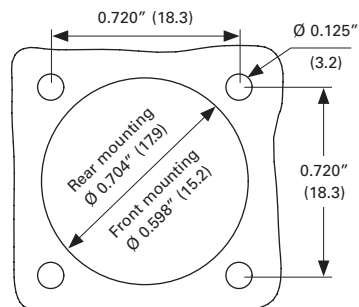


Fig. 7

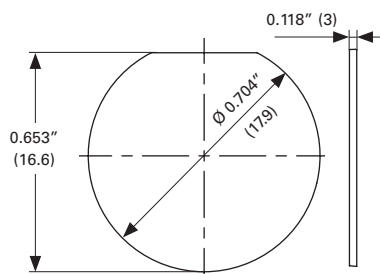


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68-Metal terminal	UTS10DCGE

Plastic protective cap



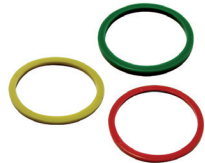
Part number receptacle cap	Part number plug cap
85005586A	85005595

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Souriau UTSX series

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

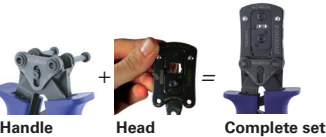
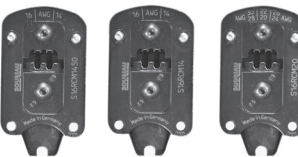
Tooling

#20 and #16 stamped or machined contacts



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see **Page 198**

* Heads to be used with handle PN: SHANGLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Contacts #16

Contact style	Contact type	Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Page 202			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 202			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 202			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 202			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—

(1) Example of plating, for other plating see Page 198

(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

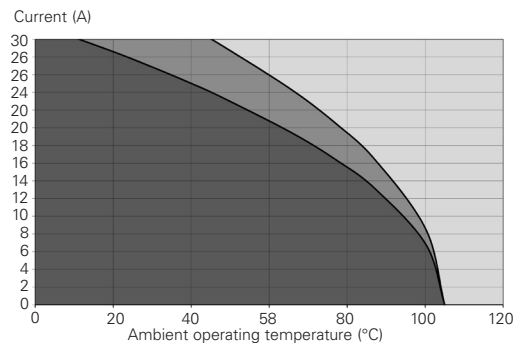
(3) For dimensions see Page 205

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	16A 300V 4kV 3 temperature elevation: 50°C

Electrical information according to the IEC 61984, with pollution degree IV and overvoltage category III.

UTSX 103 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 16 AWG

Derating curves based on continuous current application.

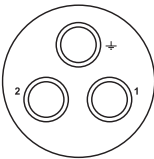
Souriau UTSX series

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



Connector part number

UTSX 142G1



2 contacts + ground
Up to 44A/600V per UL
1977 with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 31	Square flange receptacle	Without (Fig. 1)	UTSX0142G1P	UTSX0142G1S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC142G1P	UTSX0JC142G1S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC142G1P	UTSX1JC142G1S
	Plug	Without (Fig. 4)	UTSX6142G1P	UTSX6142G1S
	Plug	Cable gland (Fig. 5)	UTSX6JC142G1P	UTSX6JC142G1S
PCB contacts supplied separately see Page 31	Jam nut receptacle	Without (Fig. 6)	UTSX7142G1P	UTSX7142G1S
	Jam nut receptacle	Without (Fig. 7)	UTSX7142G1P	UTSX7142G1S

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

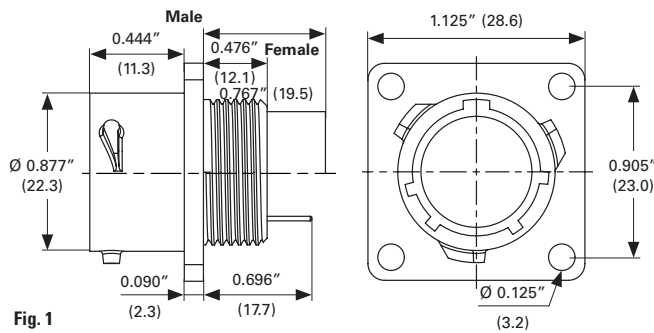


Fig. 1

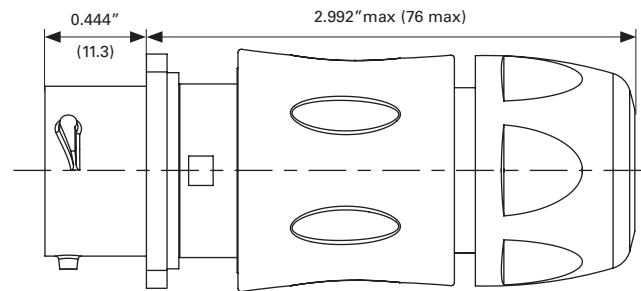


Fig. 2

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC

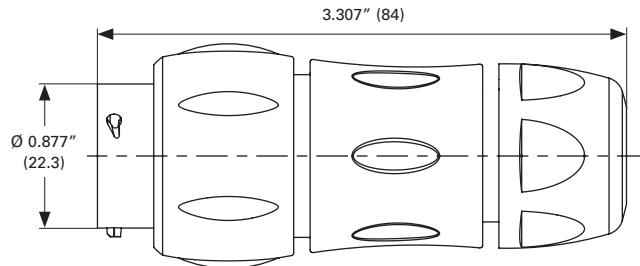


Fig. 3

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6 and UTSX6JC

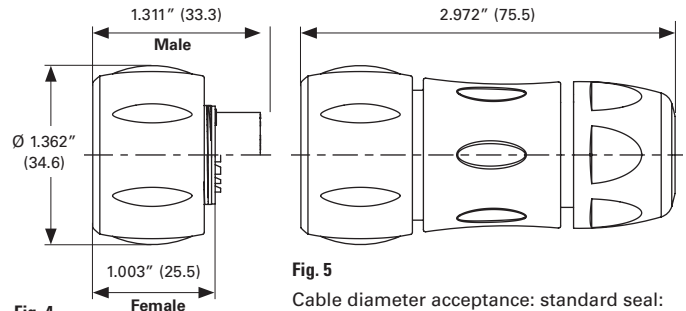


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

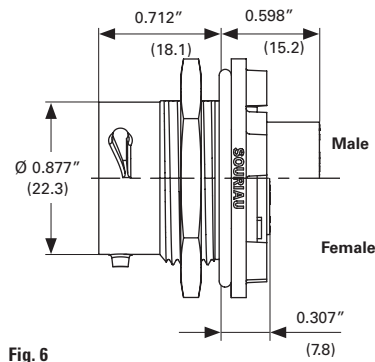


Fig. 6

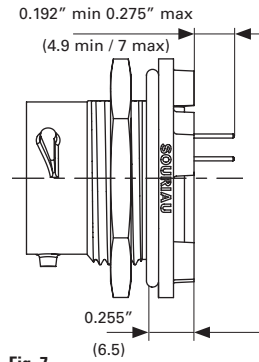
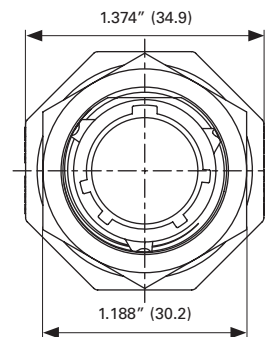
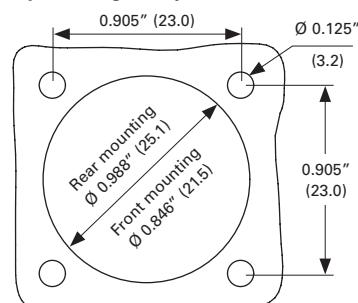


Fig. 7

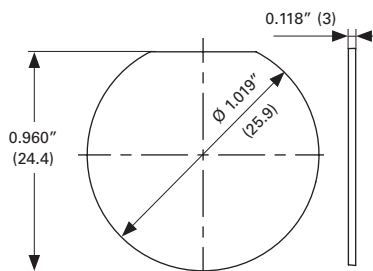


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



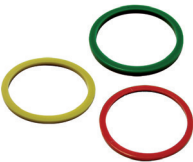
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Square flange sealing cap



Description	Part number
IP68-Metal terminal	UTS14DCGE

Tooling

#8 machined contacts



#16, #12 and #8 machined contacts



Extraction tool #8



Description	Part number
Shandle only	M317

Positioner + Locator setting #8



Description	Part number
For crimp contacts #8 Ø 0.141" (3.6)	VGE10078A

Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Description	Part number
For crimp contacts #8 Ø 0.141" (3.6)	51060210936

Contacts #8

Contact style	Contact type	Cable acceptance			Part number		Wire Ø max inch		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	mm	inch	inch	mm
Crimp contacts	Machined	16	0.059"	1.48	82913601A ⁽¹⁾	82913600A ⁽¹⁾	0.067"	1.72	0.255"	6.5
Crimp contacts	Machined	14	0.098"	2.48	82913603A ⁽¹⁾	82913602A ⁽¹⁾	0.087"	2.20	0.255"	6.5
Crimp contacts	Machined	12	0.157"	4.00	82913605A ⁽¹⁾	82913604A ⁽¹⁾	0.111"	2.82	0.255"	6.5
Crimp contacts	Machined	10	0.236"	6.00	82913607A ⁽¹⁾	82913606A ⁽¹⁾	0.137"	3.48	0.255"	6.5
Crimp contacts	Machined	8	0.393"	10.00	82913609A ⁽¹⁾	82913608A ⁽¹⁾	0.171"	4.35	0.255"	6.5
PCB	Machined ⁽²⁾	—	—	—	82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	—	—	—	—

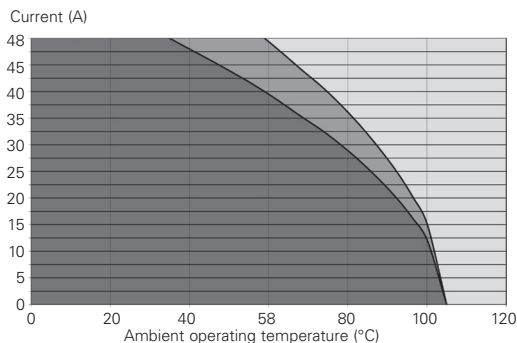
(1) Example of plating, for other plating see Page 199

(2) For dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
44A 600V with AWG8 wire	34A 600V with AWG8 wire	40A 300V 4kV 3

UTSX 142G1 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

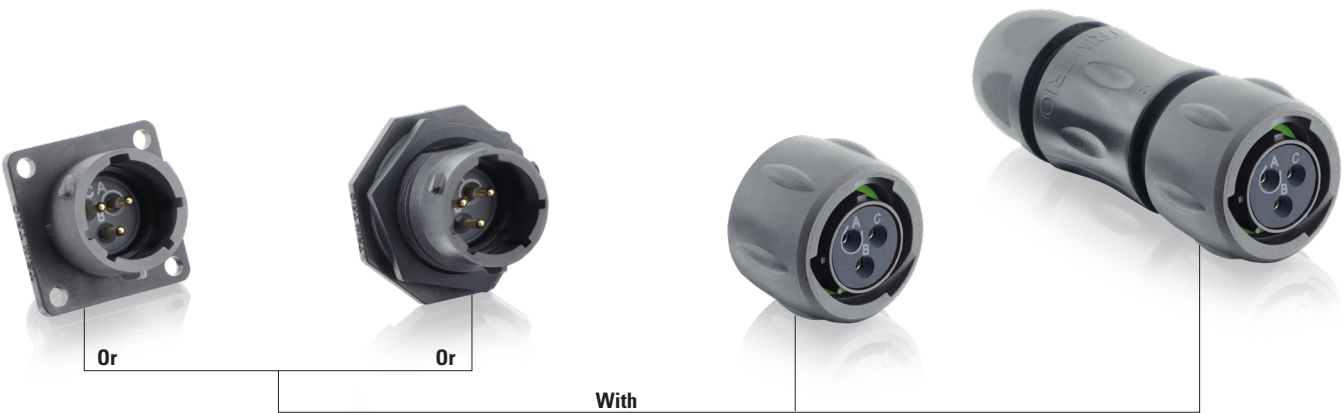
Wires used: 8 AWG

Derating curves based on continuous current application.

Dimensions in inches (millimeters)

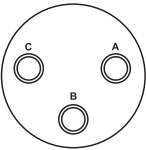
Souriau UTSX series

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



Connector part number

UTSX 12E3/12D3



3 contacts
13A/600V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 35	Square flange receptacle	Without (Fig. 1)	UTSX012E3P	UTSX012E3S
	Plug	Without (Fig. 2)	UTSX612E3P	UTSX612E3S
	Plug	Cable gland (Fig. 3)	UTSX6JC12E3P	UTSX6JC12E3S
	Jam nut receptacle	Without (Fig. 4)	UTSX712E3P	UTSX712E3S
PCB contacts loaded see Page 35	Square flange receptacle	Without (Fig. 2)	UTSX012D3P	UTSX012D3S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX712D3P	UTSX712D3S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX712D3P32	UTSX712D3S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

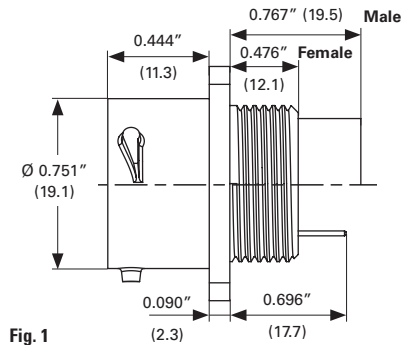
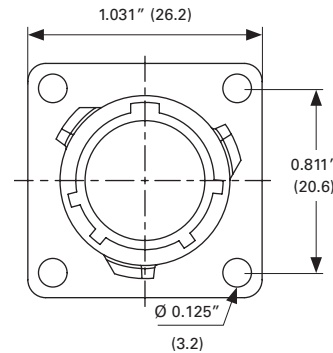


Fig. 1



Plug - UTSX6 and UTSX6JC

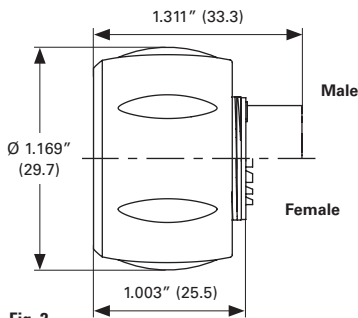


Fig. 2

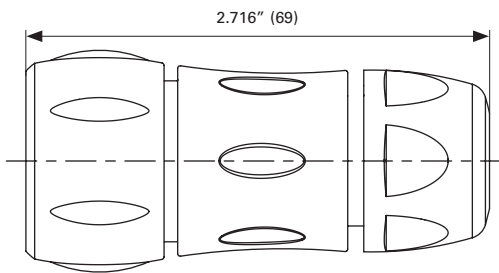


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12),
reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7

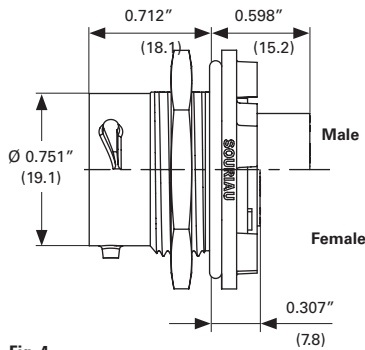


Fig. 4

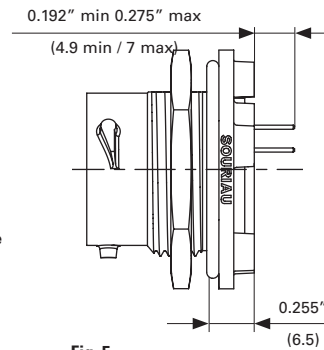


Fig. 5

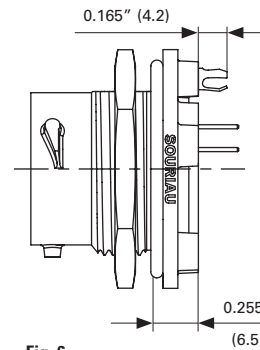
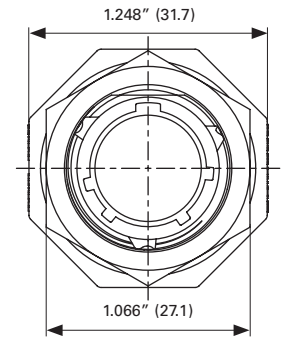
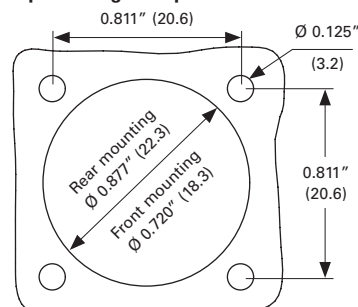


Fig. 6



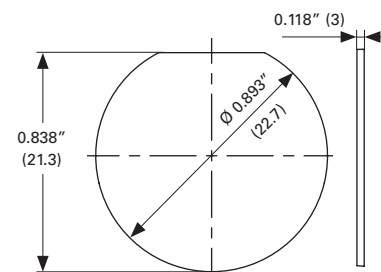
Panel cut out

Square flange receptacle - UTSX0



Dimensions in inches (millimeters)

Jam nut receptacle - UTSX7



Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



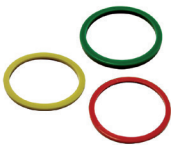
Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

Contacts #16

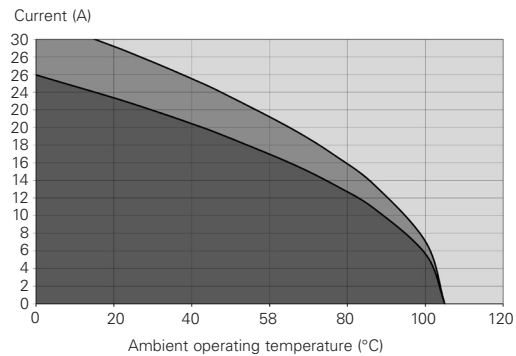
Contact type	Plating	Cable acceptance		Wire stripping length	
		(AWG)	inch ²	mm ²	inch mm
Handsolder Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18-14	0.031" - 0.098"	0.80-2.48	0.196" 5
PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—

(1) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
13A 600V with AWG16 wire	13A 600V with AWG16 wire	16A 150V 2.5kV 3

UTSX 12E3/12D3 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

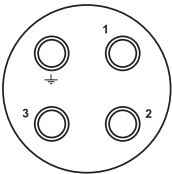
Souriau UTSX series

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



Connector part number

UTSX



124

3 contacts + ground
16A/500V per UL 1977
with AWG14 wire

12E4/12D4

3 contacts + ground
10A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 40	Square flange receptacle	Without (Fig. 1)	UTSX0124P	UTSX0124S
		Cable gland (Fig. 2)	UTSX0JC124P	UTSX0JC124S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC124P	UTSX1JC124S
	Plug	Without (Fig. 4)	UTSX6124P	UTSX6124S
		Cable gland (Fig. 5)	UTSX6JC124P	UTSX6JC124S
Screw contacts loaded	Jam nut receptacle	Without (Fig. 6)	UTSX7124P	UTSX7124S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC124PSCR	–
	Plug	Cable gland (Fig. 5)	UTSX6JC124PSCR	UTSX6JC124SSCR
	Jam nut receptacle	Without (Fig. 9)	UTSX7124PSCR	UTSX7124SSCR
PCB contacts supplied separately see Page 40	Square flange receptacle	Without (Fig. 1)	UTSX0124P	UTSX0124S
	Jam nut receptacle	Without (Fig. 7)	UTSX7124P	UTSX7124S
Hand solder electrical contacts loaded see Page 40	Square flange receptacle	Without (Fig. 1)	UTSX012E4P	UTSX012E4S
	Plug	Without (Fig. 4)	UTSX612E4P	UTSX612E4S
		Cable gland (Fig. 5)	UTSX6JC12E4P	UTSX6JC12E4S
	Jam nut receptacle	Without (Fig. 6)	UTSX712E4P	UTSX712E4S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTSX012D4P	UTSX012D4S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX712D4P	UTSX712D4S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX712D4P32	UTSX712D4S32

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

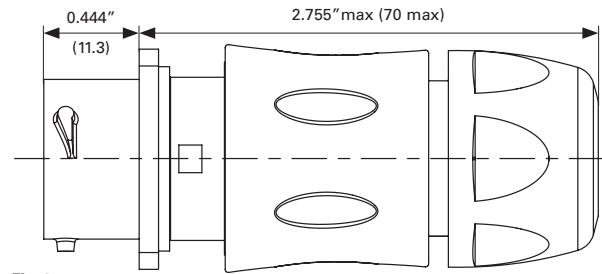
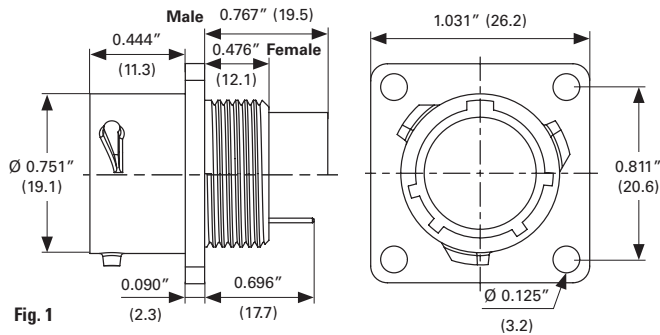


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Free hanging - UTSX1JC

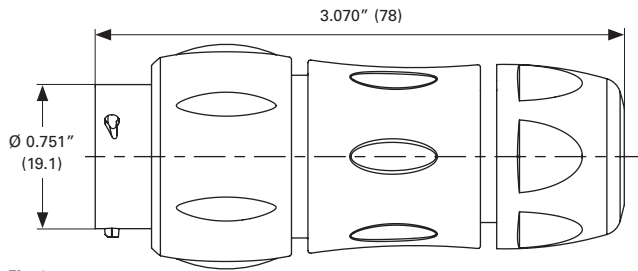


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Plug - UTSX6 and UTSX6JC

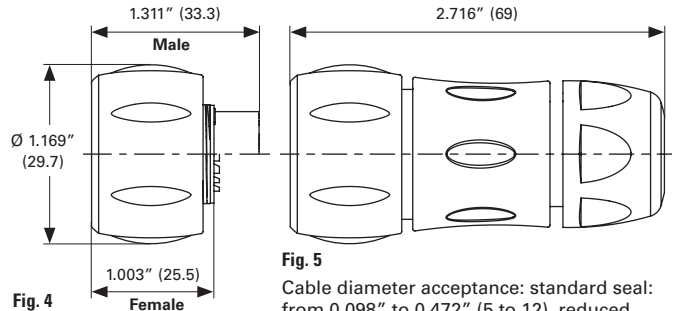


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7

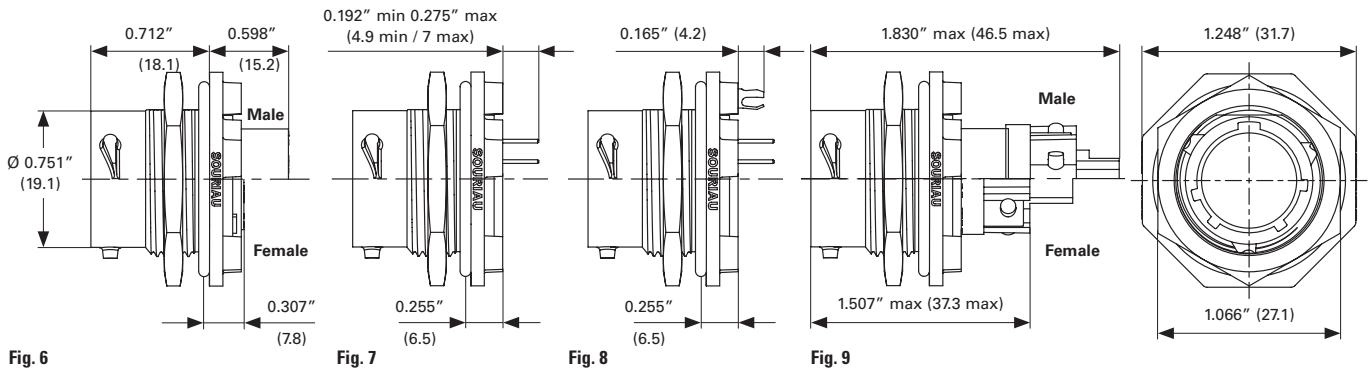


Fig. 6

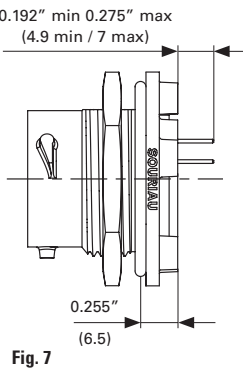


Fig. 7

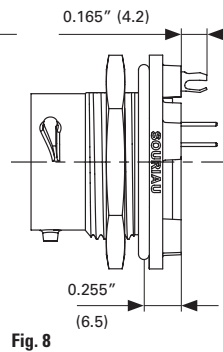


Fig. 8

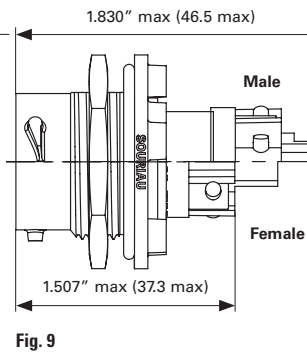
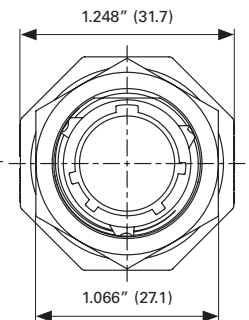
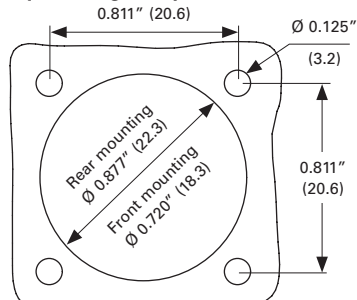


Fig. 9

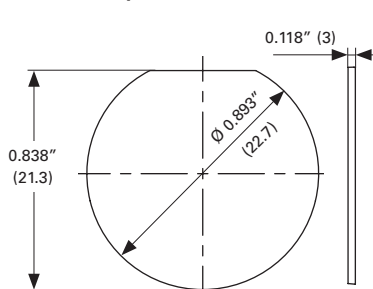


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

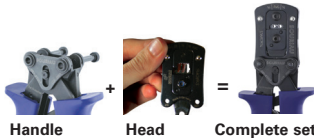
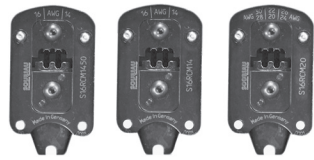
Tooling

#16 stamped or machined contacts



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts	RM/RC 28M1K ⁽¹⁾	S16RCM20*
#16	RM/RC 24M9K ⁽¹⁾	S16RCM20*
Ø 0.062" (1.6)	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*

(1) Example of plating, for other plating options see **Page 198**

* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Souriau UTSX series

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

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²		Male	Female	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—
Coaxial	Cable multipiece	see Page 203			RMDX10D28	RCDXK1D28	—	—
	Cable monocrimp				RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece				RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—
	Twisted pair monocrimp				RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—			RMPDF1000	RCPOF1000B	—	—
	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—

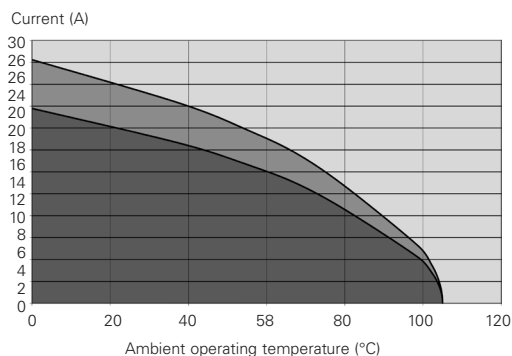
(1) Example of plating, for other plating see **Page 199**

(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6 (3): For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
UTSX 124 16A 500V with AWG14 wire	16A 500V with AWG14 wire	16A 150V 2.5kV 3 temperature elevation: 50°C
UTSX 12E4/12D4 10A 500V with AWG16 wire	10A 500V with AWG16 wire	16A 150V 2.5kV 3 temperature elevation: 50°C

UTSX 124 - 12E4/12D4 derating curves

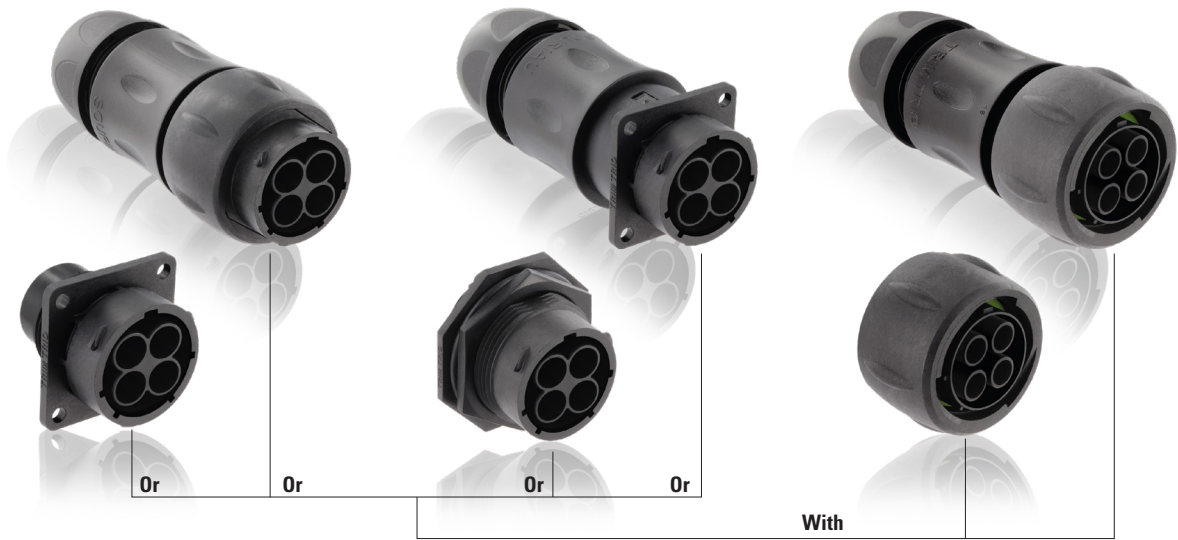


- Current use
- Limited use
- Not recommended use

Test conditions

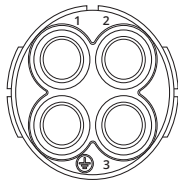
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 163G1



3 contacts + ground
46A/600V per UL 1977
with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 44	Square flange receptacle	Without (Fig. 1)	UTSX0163G1P	UTSX0163G1S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC163G1P	UTSX0JC163G1S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC163G1P	UTSX1JC163G1S
	Plug	Without (Fig. 4)	UTSX6163G1P	UTSX6163G1S
	Plug	Cable gland (Fig. 5)	UTSX6JC163G1P	UTSX6JC163G1S
	Jam nut receptacle	Without (Fig. 6)	UTSX7163G1P	UTSX7163G1S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX7163G1P32	UTSX7163G1S32
PCB contacts supplied separately see Page 44	Square flange receptacle	Without (Fig. 1)	UTSX0163G1P	UTSX0163G1S
	Jam nut receptacle	Without (Fig. 7)	UTSX7163G1P	UTSX7163G1S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

163G1 (Shell size 16, 3 + ground, 4x#8)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

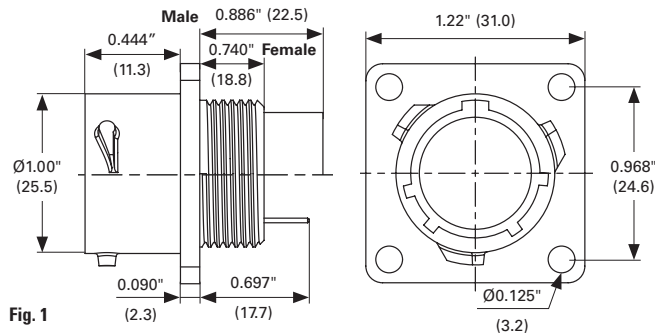


Fig. 1

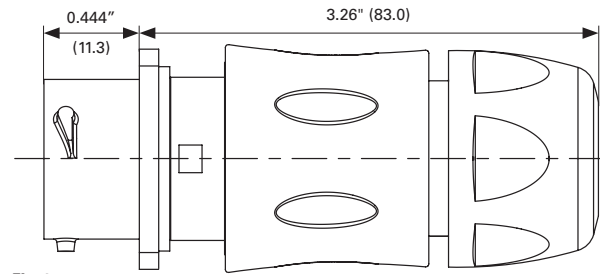


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

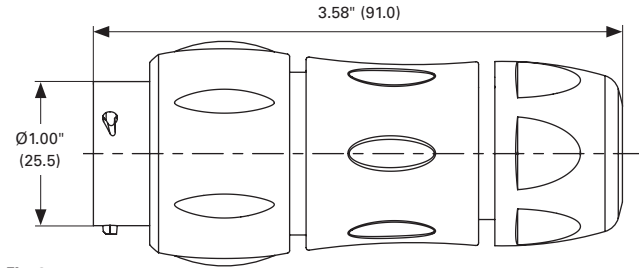


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

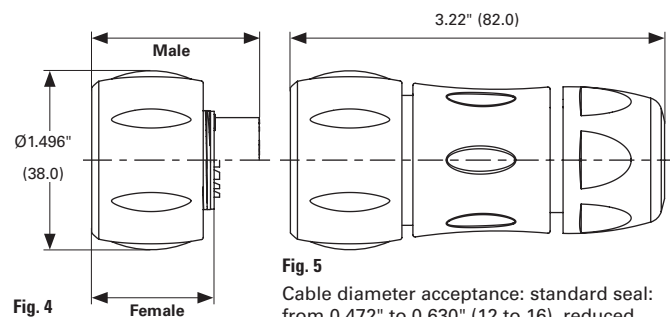


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

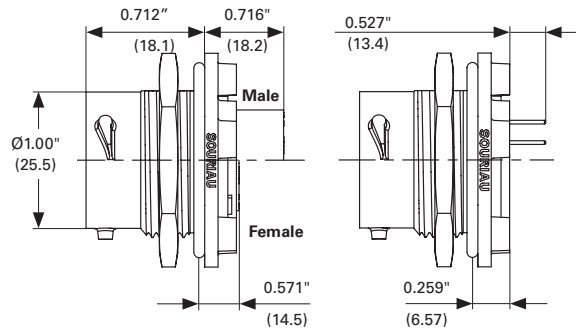


Fig. 6

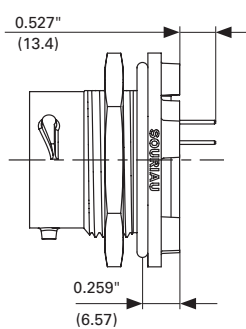


Fig. 7

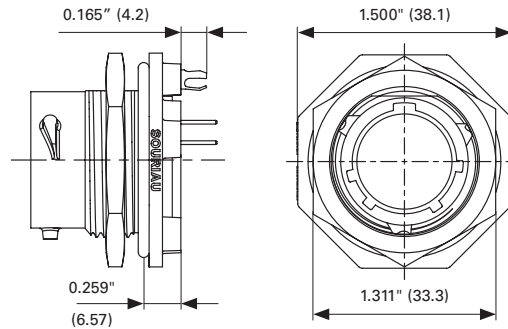
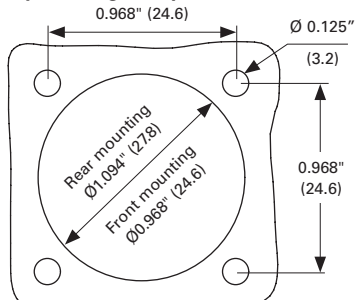


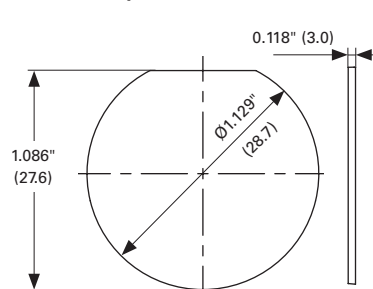
Fig. 8

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

Tooling

#8 Machine contacts



Contact size	Part number
Shandle only	M317

Positioner + Locator setting #8



Contact size	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	VGE10078A

Extraction tool #8



Description	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	51060210936

Souriau UTSX series

163G1 (Shell size 16, 3 + ground, 4x#8)

Contacts #8

Contact style	Contact type	Cable acceptance		Cable acceptance		Part number		Wire Ø max inch		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	mm	inch	mm	inch	mm
Crimp contacts	Machined	16	0.059"	1.48	82913601A ⁽¹⁾	82913600A ⁽¹⁾	0.067"	1.72	0.255"	6.5	
Crimp contacts	Machined	14	0.098"	2.48	82913603A ⁽¹⁾	82913602A ⁽¹⁾	0.087"	2.20	0.255"	6.5	
Crimp contacts	Machined	12	0.157"	4.00	82913605A ⁽¹⁾	82913604A ⁽¹⁾	0.111"	2.82	0.255"	6.5	
Crimp contacts	Machined	10	0.236"	6.00	82913607A ⁽¹⁾	82913606A ⁽¹⁾	0.137"	3.48	0.255"	6.5	
Crimp contacts	Machined	8	0.393"	10.00	82913609A ⁽¹⁾	82913608A ⁽¹⁾	0.171"	4.35	0.255"	6.5	
PCB	Machined ⁽²⁾	—			82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	—	—	—	—	—

(1): Example of plating, for other plating see **Page 199**

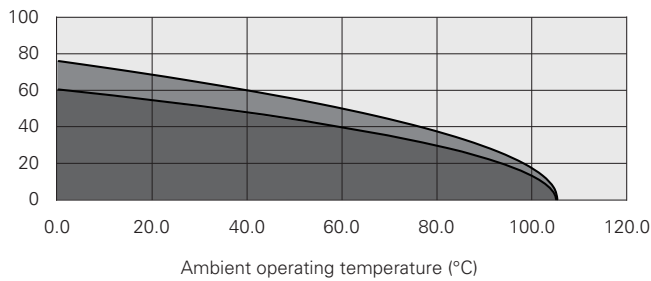
(2): for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
UTSX 163G1 46A 600V	46A 600V	46A 400V 6KV 3

UTSX 163G1 derating curves

Current (A)



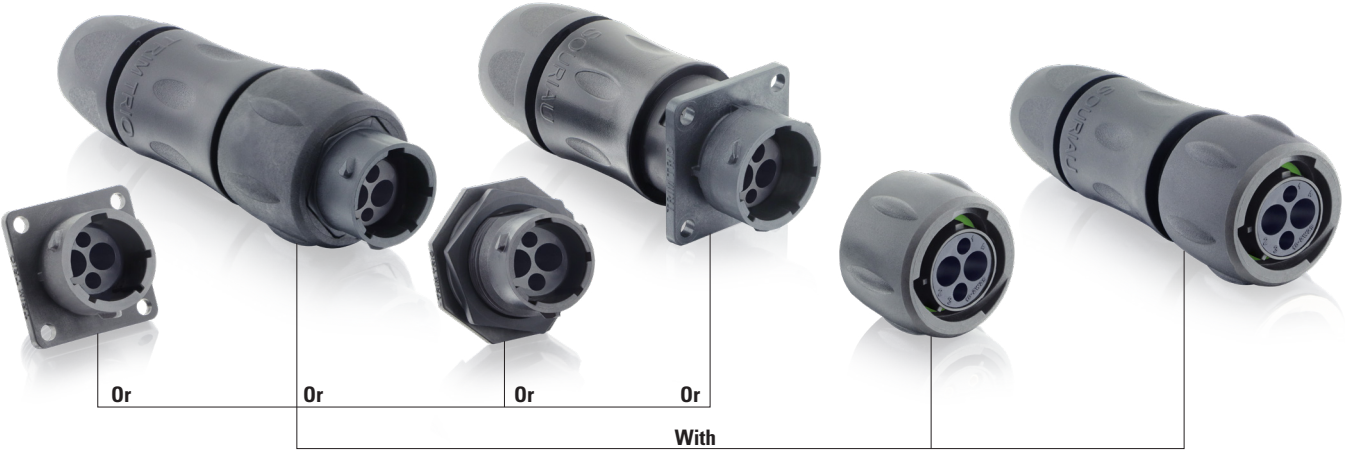
- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 8 AWG

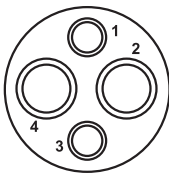
Derating curves based on continuous current application.

Dimensions in inches (millimeters)



Connector part number

UTSX 102W2



4 contacts
26A/600V per UL1977
with AWG12 wire

7.5A/250V per UL1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 49	Square flange receptacle	Without (Fig. 1)	UTSX0102W2P	UTSX0102W2S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC102W2P	UTSX0JC102W2S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC102W2P	UTSX1JC102W2S
	Plug	Without (Fig. 4)	UTSX6102W2P	UTSX6102W2S
	Plug	Cable gland (Fig. 5)	UTSX6JC102W2P	UTSX6JC102W2S
	Jam nut receptacle	Without (Fig. 6)	UTSX7102W2P	UTSX7102W2S

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

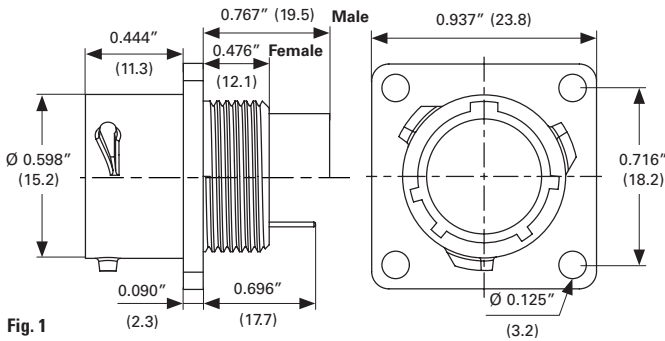


Fig. 1

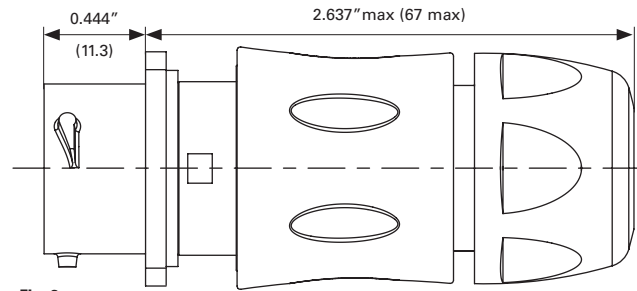


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Free hanging - UTSX1JC

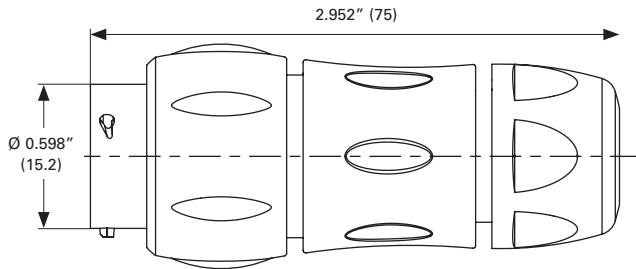


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Free hanging - UTSX1JC

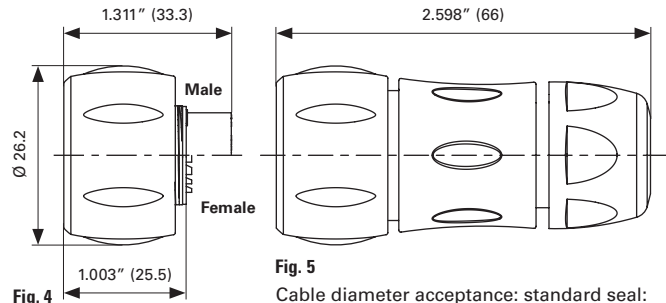


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7

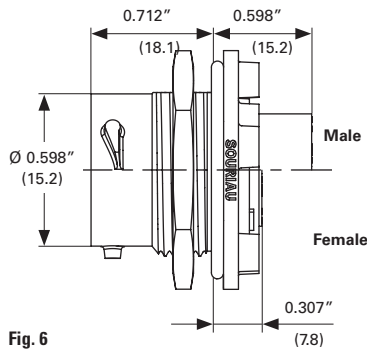
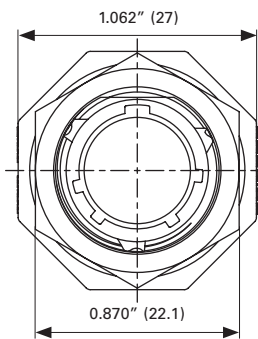
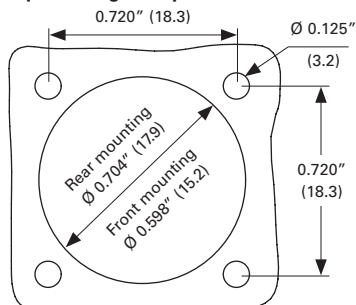


Fig. 6

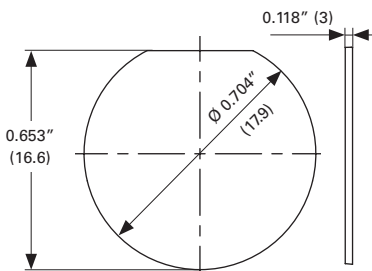


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Plastic protective cap



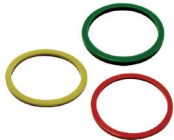
Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS10DCGE

Souriau UTSX series

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

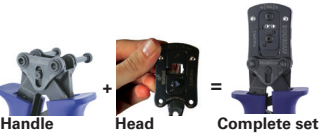
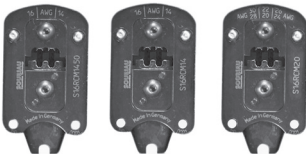
Tooling

#20 machined and stamped contacts



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts	RM/RC 24W3K ⁽¹⁾	S20RCM*
#20	RM/RC 20W3K ⁽¹⁾	S20RCM*
Ø 0.039" (1)	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANGLES

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts	M317	VGE10077A
#12		
Ø 0.094" (2.4)		

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool



Description	Part number
Fig. 1 - Contacts #20 Ø 0.039" (1)	RX20D44
Fig. 2 - Contacts #12 Ø 0.094" (2.4)	51060210924

Contacts #20

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note ⁽¹⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6 ⁽¹⁾	SC24W3TK6 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	SM24W3S26 ⁽¹⁾	SC24W3S25 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6 ⁽¹⁾	SC20W3TK6 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	SM20W3S26 ⁽¹⁾	SC20W3S25 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

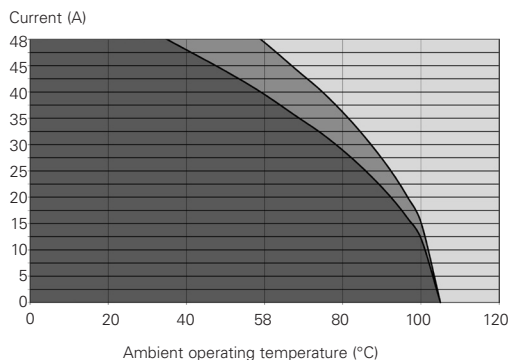
Contacts #12

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	20	0.020"	0.52	82911457NA	82911456A	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	82911459NA	82911458A	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	82911461NA	82911460A	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	82911463NA	82911462A	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	82911465NA	82911464A	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	82911467NA	82911466A	0.111"	2.82	0.192"	4.90

Electrical characteristics

UL	CSA	IEC
26A 600V with AWG12 7.5A 250V with AWG20	20A 600V with AWG12 2.5A 250V with AWG20	25A 150V 2.5kV 3 temperature elevation: 50°C

UTSX 102W2 derating curves



- Current use
- Limited use
- Not recommended use

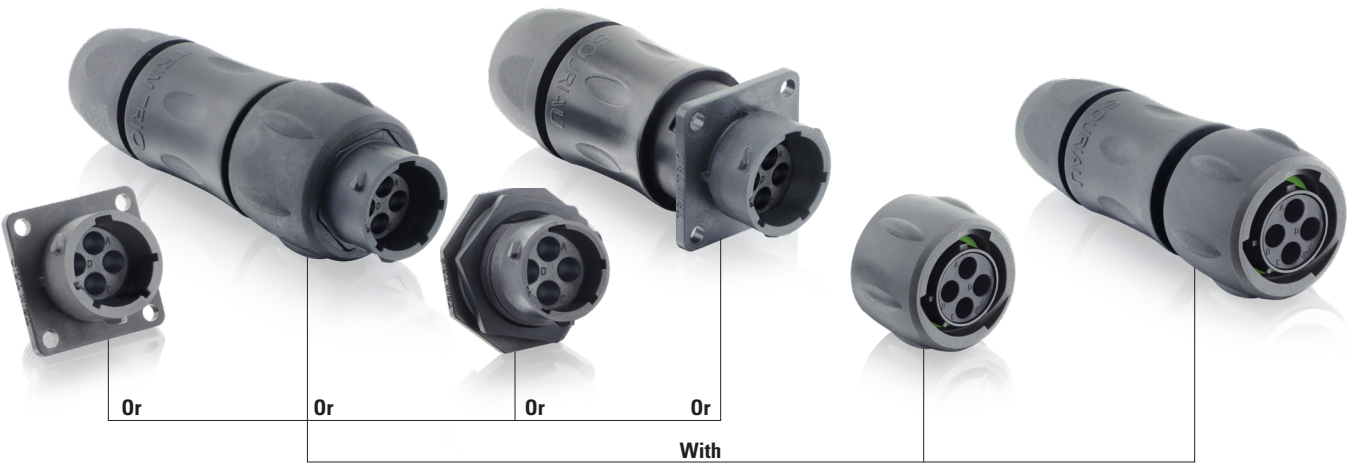
Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

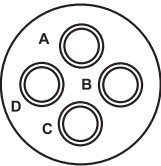
Souriau UTSX series

104 (Shell size 10, 4x#16)



Connector part number

UTSX 104



4 contacts
10A/500V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 54	Square flange receptacle	Without (Fig. 1)	UTSX0104P	UTSX0104S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC104P	UTSX0JC104S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC104P	UTSX1JC104S
	Free hanging receptacle	Cable gland and grommet(Fig. 3)	UTSX1GJC104P	–
	Plug	Without (Fig. 4)	UTSX6104P	UTSX6104S
	Plug	Cable gland (Fig. 5)	UTSX6JC104P	UTSX6JC104S
	Plug	Cable gland and grommet(Fig. 5)	–	UTSX6GJC104S
	Jam nut receptacle	Without (Fig. 6)	UTSX7104P	UTSX7104S
	Jam nut receptacle	Cable gland and grommet (Fig. 8)	UTSX7GJC104P	–
PCB contacts supplied separately see Page 54	Jam nut receptacle	Without (Fig. 7)	UTSX7104P	UTSX7104S

For discrimination/keying methods see **Page 223**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

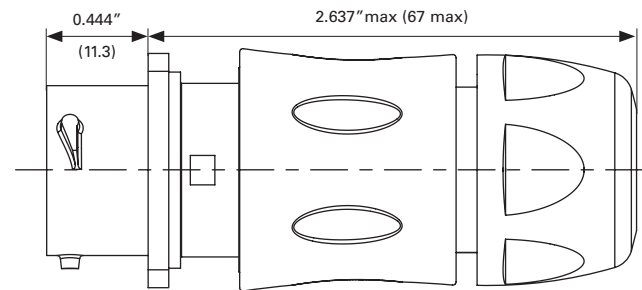
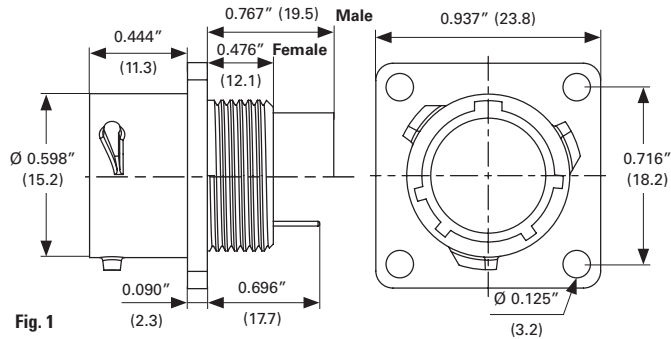


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Free hanging - UTSX1JC and UTSX1GJC

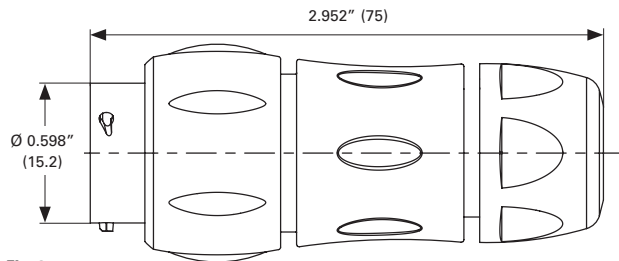


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Plug - UTSX6, UTSX6JC and UTSX6GJC

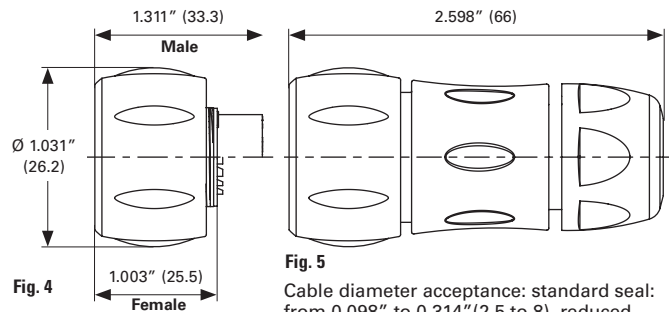


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7 and UTSX7GJC

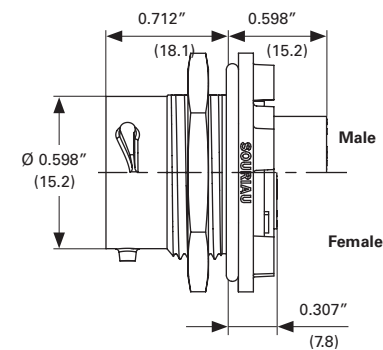


Fig. 6

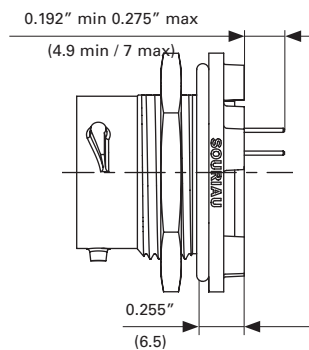
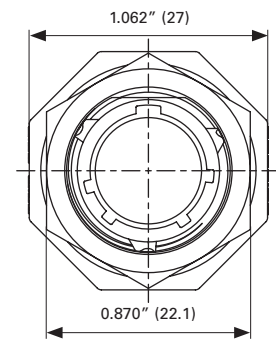
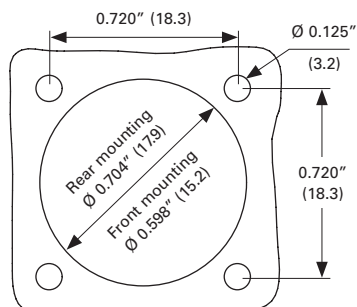


Fig. 7

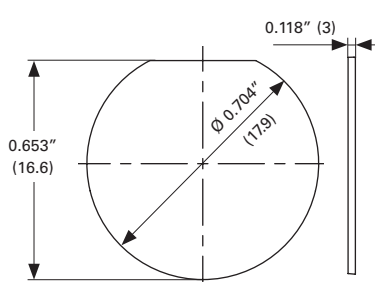


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

104 (Shell size 10, 4x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Tooling

#16 machined or stamped contacts



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see **Page 199**

* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Souriau UTSX series

104 (Shell size 10, 4x#16)

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—
PCB	Machined ⁽³⁾	—			RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—
Coaxial	Cable multipiece	see Page 202			RMDXK10D28	RCDXK1D28	—	—
	Cable monocrimp	see Page 202			RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece	see Page 202			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—
	Twisted pair monocrimp	see Page 202			RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—			RMPDF1000	RCPOF1000B	—	—

(1) Example of plating, for other plating see Page 199

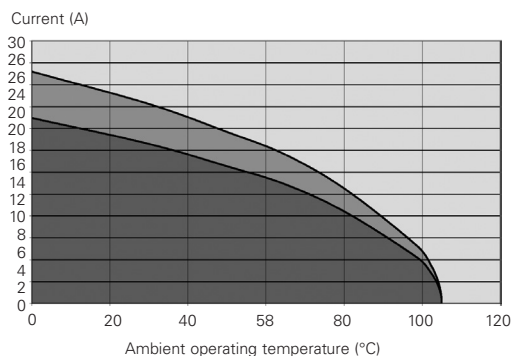
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see Page 205

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	13A 150V 2.5kV 3

UTSX 104 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

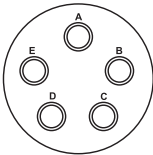
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 14E5/14D5



5 contacts 12A/600V
per UL 1977 with
AWG16 wire

5 contacts 5A/250V
per UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 58	Square flange receptacle	Without (Fig. 1)	UTSX014E5P	UTSX014E5S
	Plug	Without (Fig. 2)	UTSX614E5P	UTSX614E5S
	Plug	Cable gland (Fig. 3)	UTSX6JC14E5P	UTSX6JC14E5S
	Jam nut receptacle	Without (Fig. 4)	UTSX714E5P	UTSX714E5S
PCB contacts loaded see Page 58	Square flange receptacle	Without (Fig. 2)	UTSX014D5P	UTSX014D5S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX714D5P	UTSX714D5S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX714D5P32	UTSX714D5S32

For discrimination/keying methods see **Page 224** Sealed unmated

Overmolded cable assembly part numbers

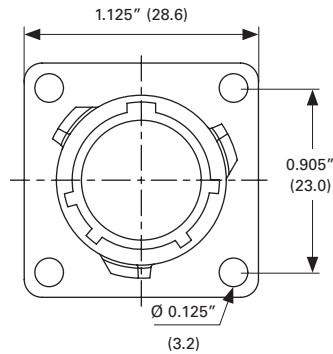
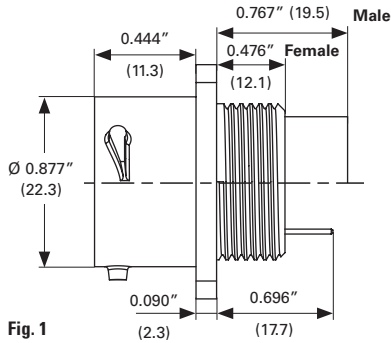
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

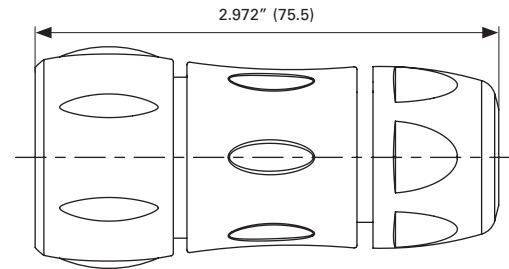
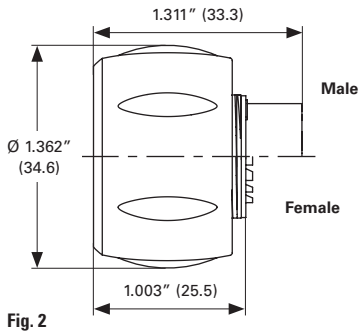
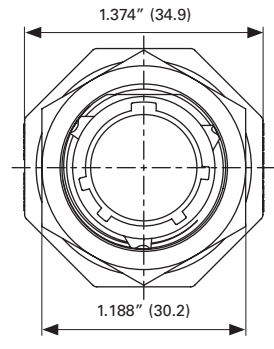
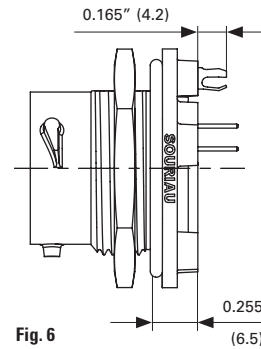
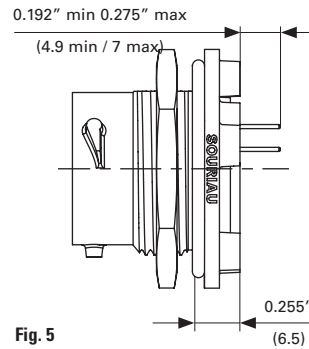
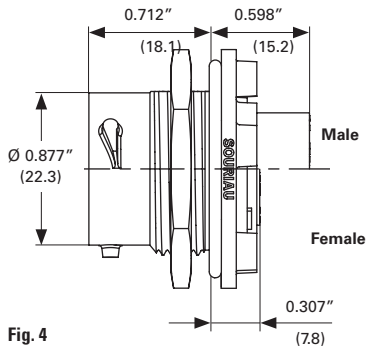


Fig. 3

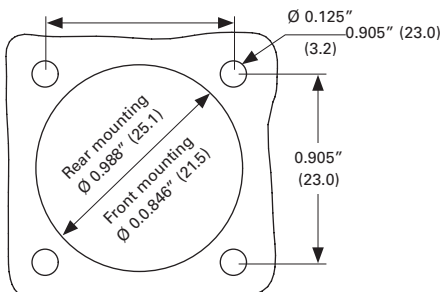
Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

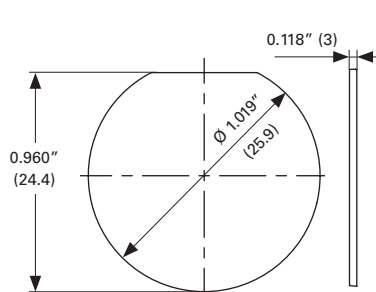


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



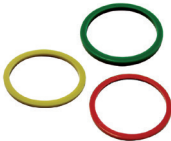
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Souriau UTSX series

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

Contacts

Contact size	Contact type	Plating	Cable acceptance	Cable acceptance		Wire stripping length	
			AWG	inch ²	mm ²	inch	mm
#16	Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18 - 14	0.031"-0.098"	0.80 - 2.48	0.196"	5
	PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—

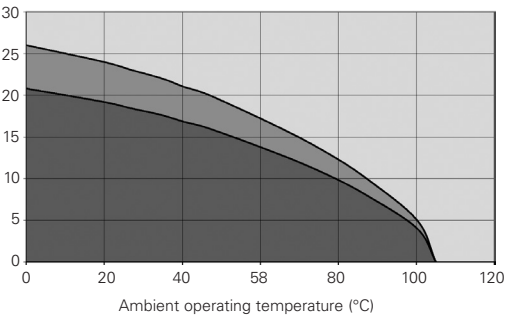
(1) For dimensions see **Pages 206**

Electrical characteristics

UL	CSA	IEC
12A 600V with AWG16 wire	12A 600V with AWG16 wire	16A 150V 2.5kV 3
5A 250V with AWG20 wire	5A 250V with AWG20 wire	

UTSX 14E5/14D5 derating curves

Current (A)

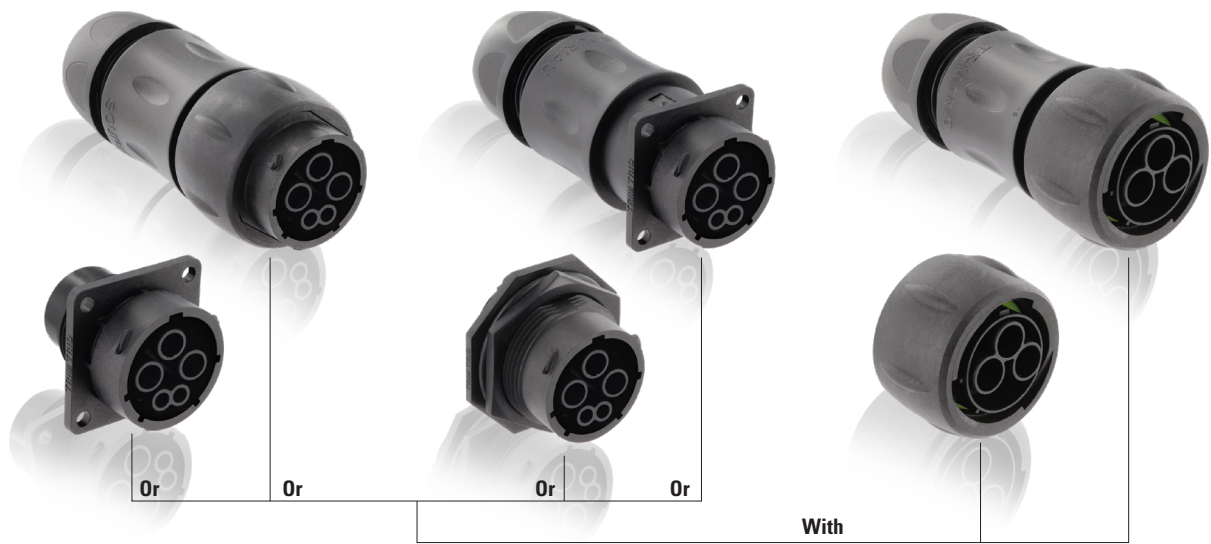


- Current use
- Limited use
- Not recommended use

Test conditions

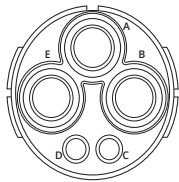
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 165



5 contacts
46A/600V per UL 1977
with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 63	Square flange receptacle	Without (Fig. 1)	UTSX0165P	UTSX0165S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC165P	UTSX0JC165S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC165P	UTSX1JC165S
	Plug	Without (Fig. 4)	UTSX6165P	UTSX6165S
	Plug	Cable gland (Fig. 5)	UTSX6JC165P	UTSX6JC165S
	Jam nut receptacle	Without (Fig. 6)	UTSX7165P	UTSX7165S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX7165P32	UTSX7165S32
PCB contacts supplied separately see Page 63	Square flange receptacle	Without (Fig. 1)	UTSX0165P	UTSX0165S
	Jam nut receptacle	Without (Fig. 7)	UTSX7165P	UTSX7165S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

165 (Shell size 16, 2 x #16, 3x#8)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

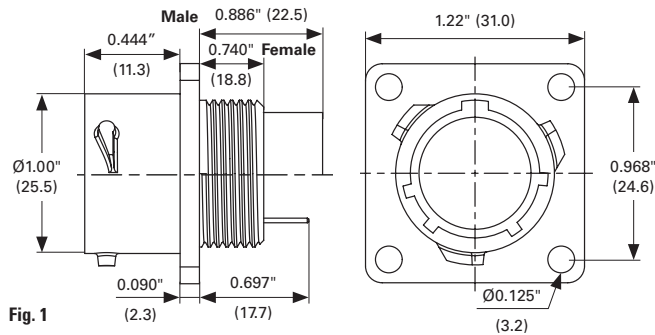


Fig. 1

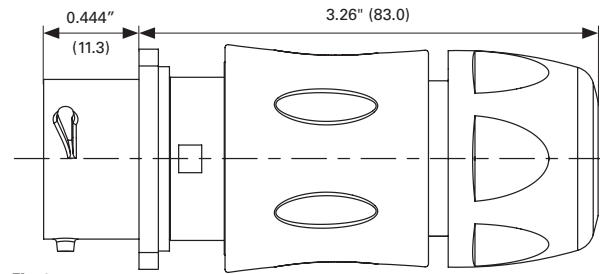


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

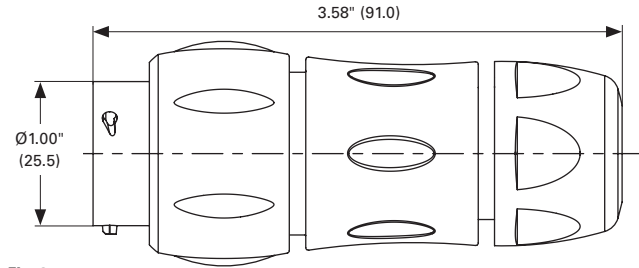


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

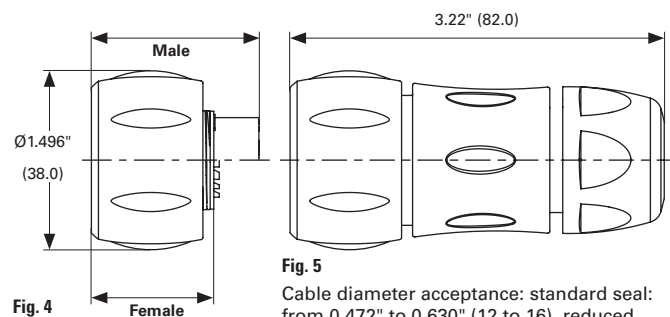


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

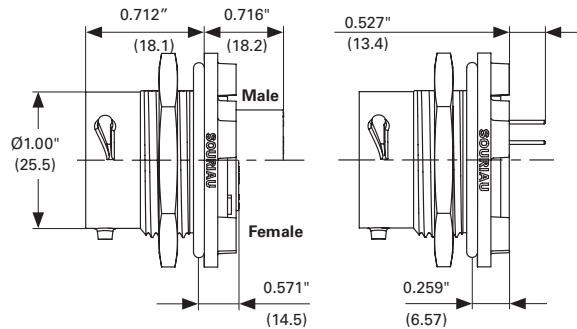


Fig. 6

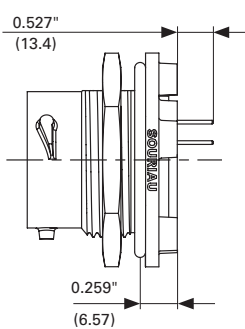


Fig. 7

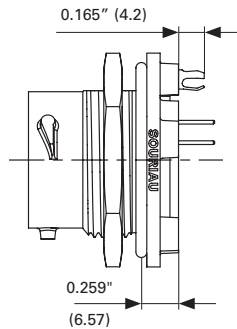
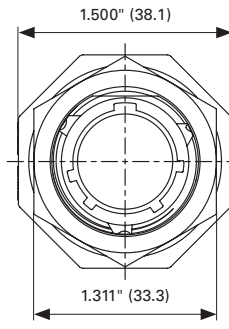
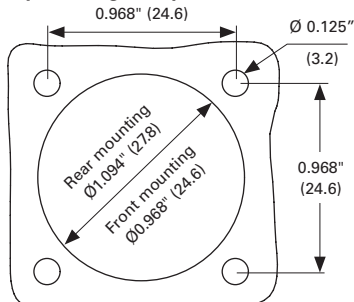


Fig. 8

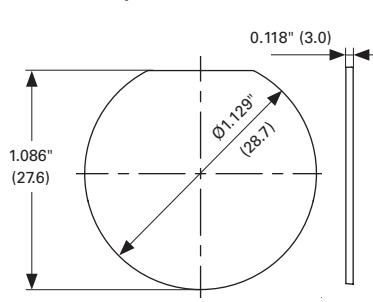


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



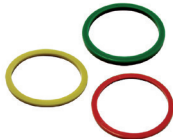
Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

Souriau UTSX series

165 (Shell size 16, 2 x #16, 3x#8)

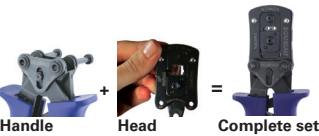
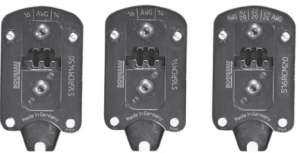
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see Page 199
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

#8 Machine contacts



Contact size	Part number
Shandle only	M317

Positioner + Locator setting #8



Contact size	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	VGE10078A

Extraction tool #8



Description	Part number
For Crimp Contacts #8 Ø 0.141" (3.6)	51060210936

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²		Male	Female	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—
		—	—	—	—	—	—	—
Coaxial	Cable multipiece	see Page 203	—	—	RMDXK10D28	RCDXK1D28	—	—
	Cable monocrimp	see Page 203	—	—	RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece	see Page 203	—	—	RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—
	Twisted pair monocrimp	see Page 203	—	—	RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—
Handsoldier	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—

(1) Example of plating, for other plating see Page 199

(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) For dimensions see Page 206

Contacts #8

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²		Male	Female	inch	mm
Crimp contacts	Machined	16	0.059"	1.48	82913601A ⁽¹⁾	82913600A ⁽¹⁾	0.067"	1.72
Crimp contacts	Machined	14	0.098"	2.48	82913603A ⁽¹⁾	82913602A ⁽¹⁾	0.087"	2.20
Crimp contacts	Machined	12	0.157"	4.00	82913605A ⁽¹⁾	82913604A ⁽¹⁾	0.111"	2.82
Crimp contacts	Machined	10	0.236"	6.00	82913607A ⁽¹⁾	82913606A ⁽¹⁾	0.137"	3.48
Crimp contacts	Machined	8	0.393"	10.00	82913609A ⁽¹⁾	82913608A ⁽¹⁾	0.171"	4.35
PCB	Machined ⁽²⁾	—	—	—	82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	—	—

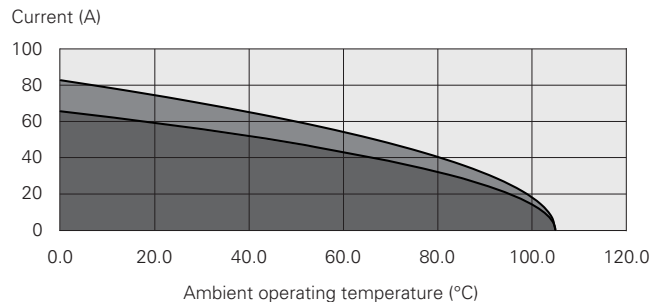
(1) Example of plating, for other plating see Page 199

(2) For dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
UTSX 165 46A 600V with AWG8 wire	40A 600V with AWG8 wire	46A 320V 4kV 3

UTSX 165 derating curves



- Current use
- Limited use
- Not recommended use

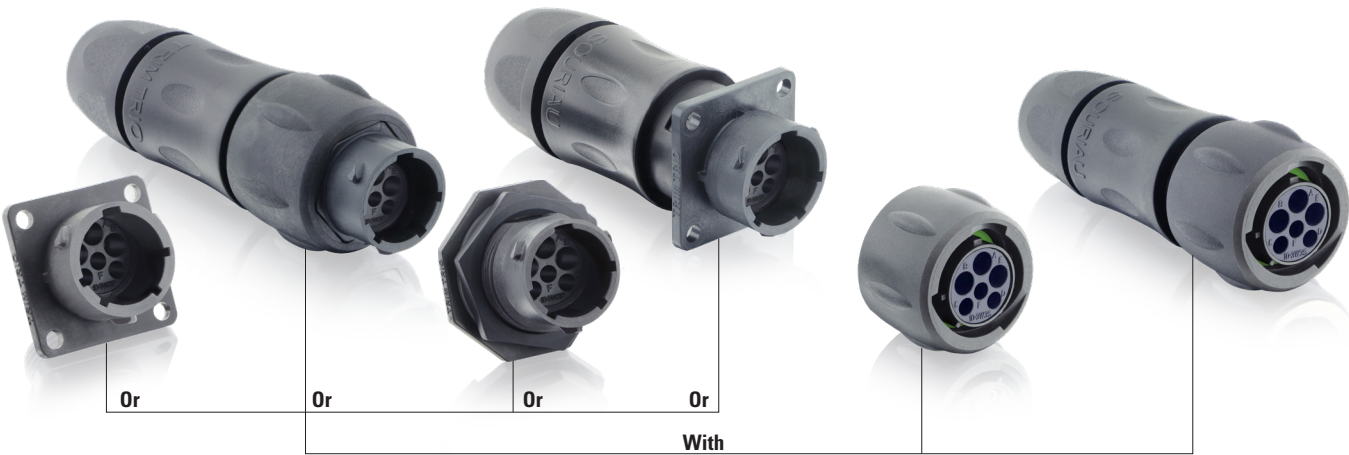
Test conditions

Contact used: machined contacts
Wires used: 8 AWG

Derating curves based on continuous current application.

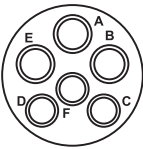
Souriau UTSX series

103W3 (Shell size 10, 3x#20, 3x16)



Connector part number

UTSX 103W3



6 contacts
13A/500V per UL1977
with AWG16 wire

6 contacts
7.5A/250V per UL1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 69	Square flange receptacle	Without (Fig. 1)	UTSX0103W3P	UTSX0103W3S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC103P	UTSX0JC103S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC103W3P	UTSX1JC103W3S
	Plug	Without (Fig. 4)	UTSX6103W3P	UTSX6103W3S
	Plug	Cable gland (Fig. 5)	UTSX6JC103W3P	UTSX6JC103W3S
	Jam nut receptacle	Without (Fig. 6)	UTSX7103W3P	UTSX7103W3S
PCB contacts supplied separately see Page 69	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX7103W3P	UTSX7103W3S

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

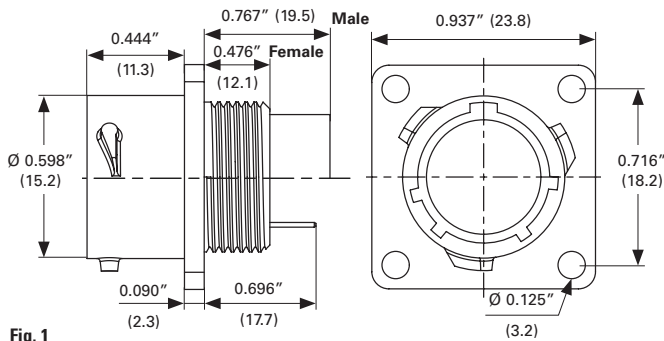


Fig. 1

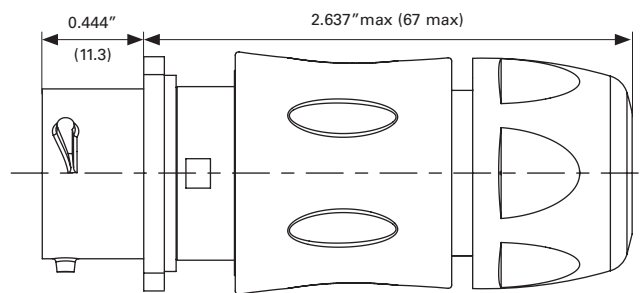


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Free hanging - UTSX1JC

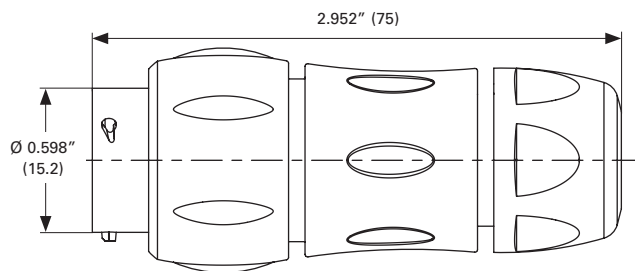


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Plug - UTSX6 and UTSX6JC

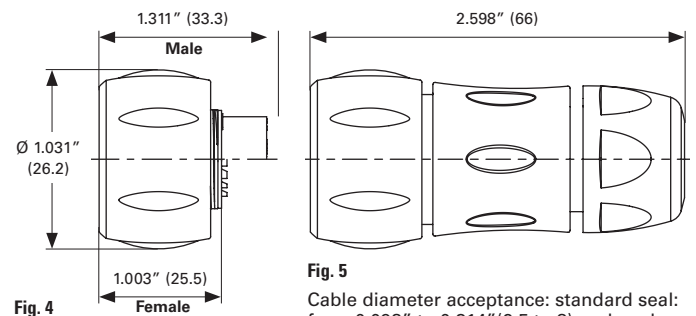


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7

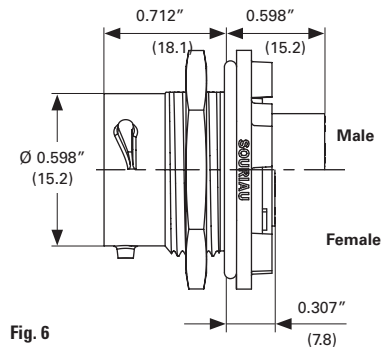


Fig. 6

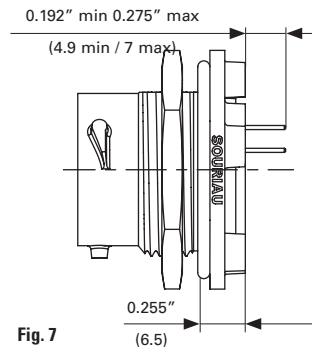
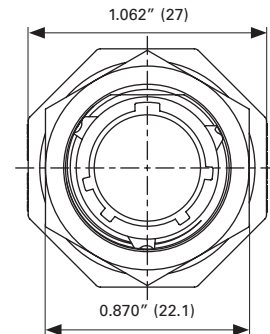
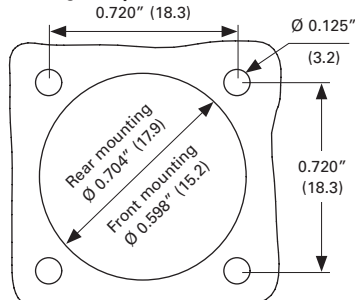


Fig. 7

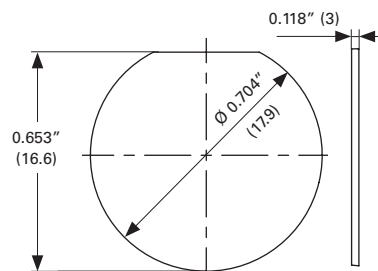


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

103W3 (Shell size 10, 3x#20, 3x16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Plastic protective cap



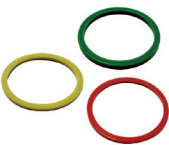
Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS10DCGE

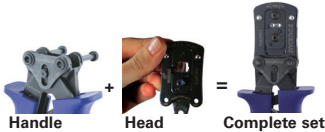
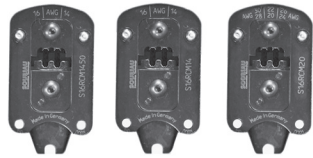
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*
Standard contacts #20 Ø 0.039" (1.0)	SM/SC 16ML11TK6 ⁽¹⁾	S16SCML11*
	RM/RC 24W3K ⁽¹⁾	S20RCM*
	RM/RC 20W3K ⁽¹⁾	S20RCM*
	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see **Page 199**

(2) Loose contact

* Heads to be used with handle PN: SHANGLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Souriau UTSX series

103W3 (Shell size 10, 3x#20, 3x16)

Contacts #16

Contact style	Contact type	Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
PCB	Machined ⁽³⁾	—			RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Page 203			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—			RMP0F1000	RCPOF1000B	—	—	—	—

(1) Example of plating, for other plating see Page 199

(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see Page 206

Contacts #20

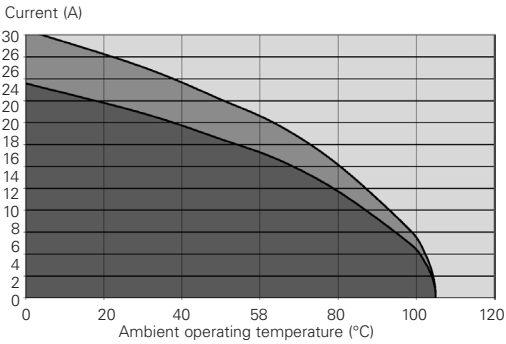
Contact style	Contact type	Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note ⁽¹⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6 ⁽¹⁾	SC24W3TK6 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	SM24W3S26 ⁽¹⁾	SC24W3S25 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6 ⁽¹⁾	SC20W3TK6 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	SM20W3S26 ⁽¹⁾	SC20W3S25 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Electrical characteristics

UL	CSA	IEC
13A 500V with AWG 16	7A 500V with AWG 16	5A 32V 1.5kV 3
7.5A 250V with AWG20	2.5A 250V with AWwG20	

UTSX 103W3 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

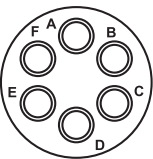
Souriau UTSX series

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



Connector part number

UTSX



106

6 contacts 5A/250V
per UL 1977 with
AWG20 wire

10E6/10D6

6 contacts 6A/250V
per UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 74	Square flange receptacle	Without (Fig. 1)	UTSX0106P	UTSX0106S
		Cable gland (Fig. 2)	UTSX0JC106P	UTSX0JC106S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC106P	UTSX1JC106S
	Plug	Without (Fig. 4)	UTSX6106P	UTSX6106S
	Plug	Cable gland (Fig. 5)	UTSX6JC106P	UTSX6JC106S
	Jam nut receptacle	Without (Fig. 6)	UTSX7106P	UTSX7106S
PCB contacts supplied separately see Page 74	Jam nut receptacle	Without (Fig. 7)	UTSX7106P	UTSX7106S
Handsold electrical contacts loaded	Square flange receptacle	Without (Fig. 1)	UTSX010E6P	UTSX010E6S
	Plug	Without (Fig. 4)	UTSX610E6P	UTSX610E6S
	Plug	Cable gland (Fig. 5)	UTSX6JC10E6P	UTSX6JC10E6S
	Jam nut receptacle	Without (Fig. 6)	UTSX710E6P	UTSX710E6S
PCB contacts supplied separately see Page 74	Jam nut receptacle	Without (Fig.7)	UTSX710E6P	UTSX710E6S
PCB contacts loaded see Page 74	Square flange receptacle	Without (Fig.1)	UTSX010D6P	UTSX010D6S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.8)	UTSX710D6P	UTSX710D6S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.8)	UTSX710D6P32	UTSX710D6S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

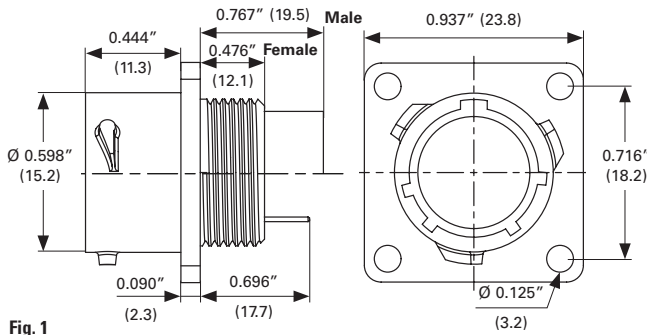


Fig. 1

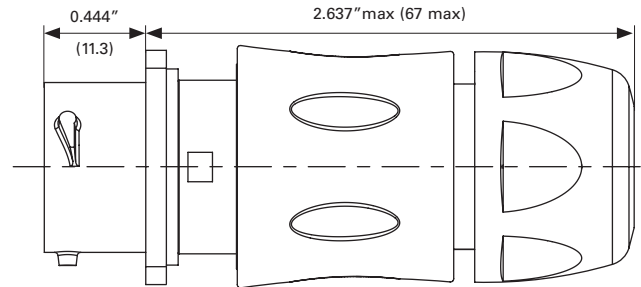


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Free hanging - UTSX1JC

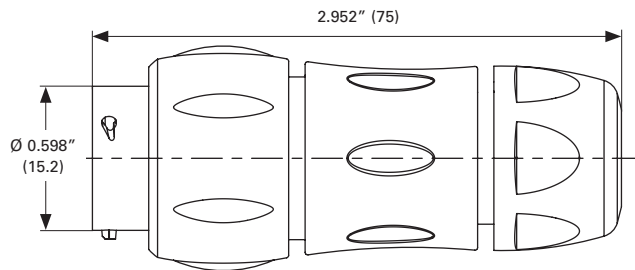


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Plug - UTSX6 and UTSX6JC

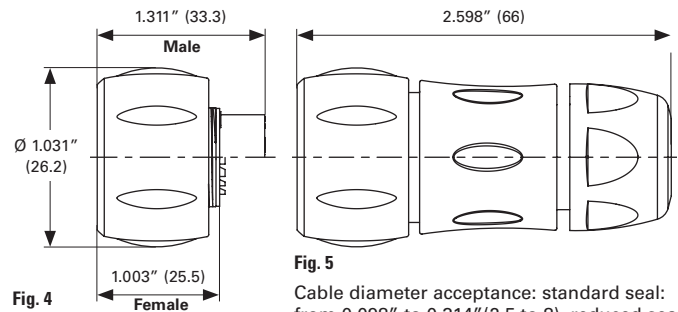


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7

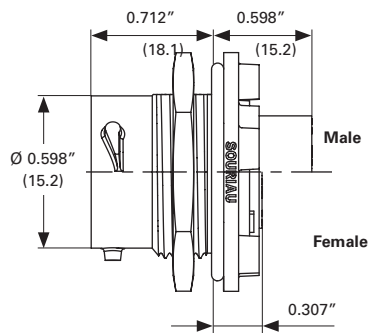


Fig. 7

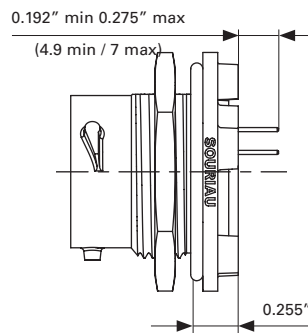


Fig. 8

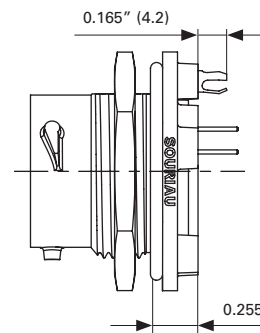
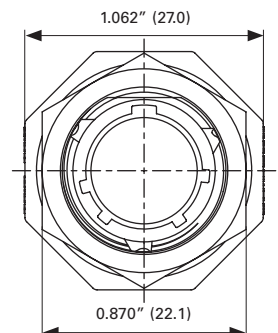
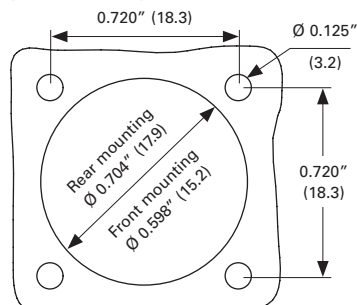


Fig. 9

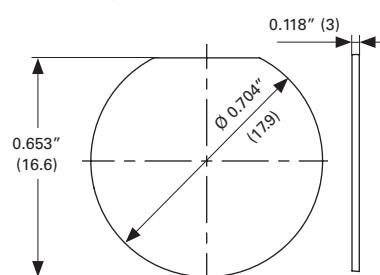


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Plastic protective cap



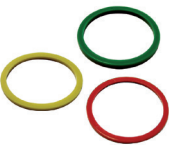
Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

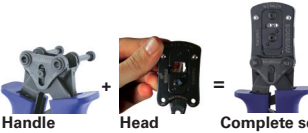
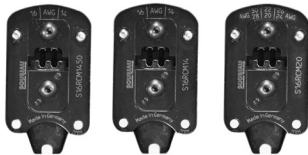
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling
(without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1.0)	RM/RC 24W3K ⁽¹⁾	S20RCM*
	RM/RC 20W3K ⁽¹⁾	S20RCM*
	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1.0)	RX20D44

Souriau UTSX series

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

Contacts #20

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note ⁽¹⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6 ⁽²⁾	SC24W3TK6 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	SM24W3S26 ⁽²⁾	SC24W3S25 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6 ⁽²⁾	SC20W3TK6 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	SM20W3S26 ⁽²⁾	SC20W3S25 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10

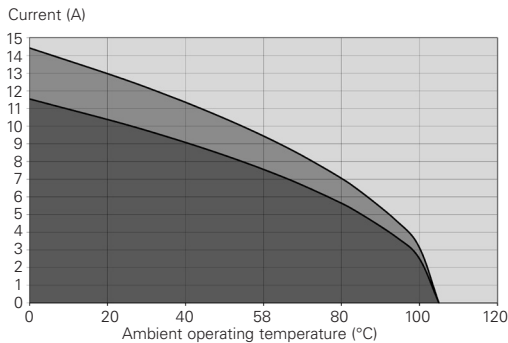
(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Hand solder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
UTSX 106 5A 250V with AWG20 wire	4A 250V with AWG20 wire	7A 32V 1.5kV 3
UTSX 10E6/10D6 6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 32V 1.5kV 3

UTSX 106 - 10E6/10D6 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

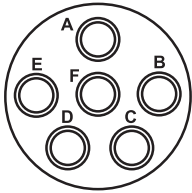
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 10E98/10D98



6 contacts 6A/250V
per UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Hand solder electrical contacts loaded see Page 78	Square flange receptacle	Without (Fig. 1)	UTSX010E98P	UTSX010E98S
	Plug	Without (Fig. 5)	UTSX610E98P	UTSX610E98S
	Plug	Cable gland (Fig. 3)	UTSX6JC10E98P	UTSX6JC10E98S
	Jam nut receptacle	Without (Fig. 4)	UTSX710E98P	UTSX710E98S
PCB contacts loaded see Page 78	Square flange receptacle	Without (Fig. 2)	UTSX010D98P	UTSX010D98S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX710D98P	UTSX710D98S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX710D98P32	UTSX710D98S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

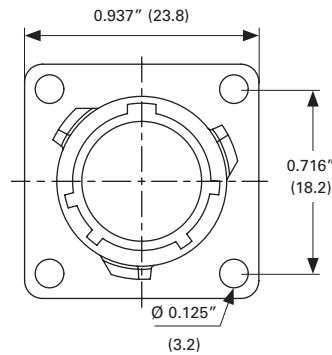
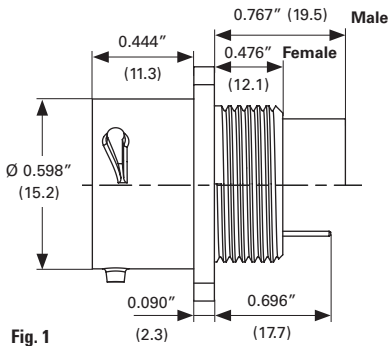
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

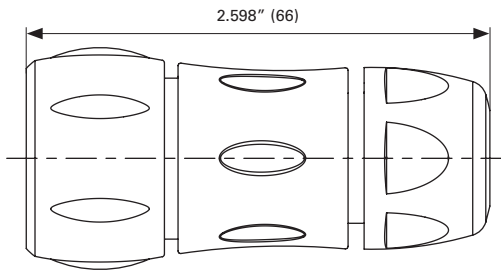
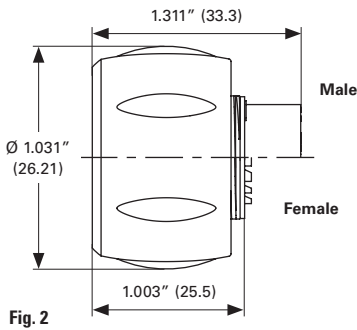
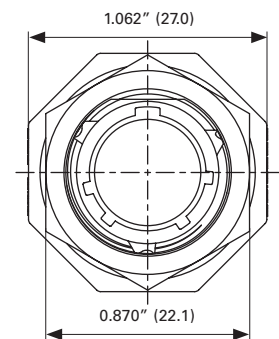
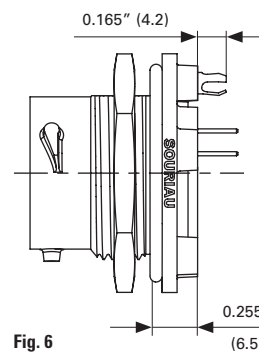
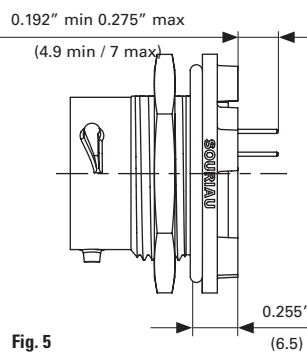
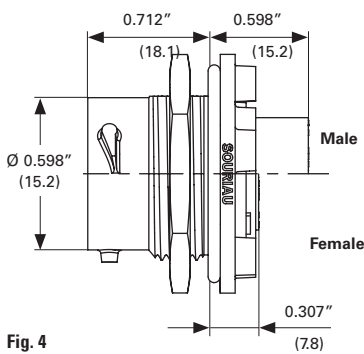


Fig. 3

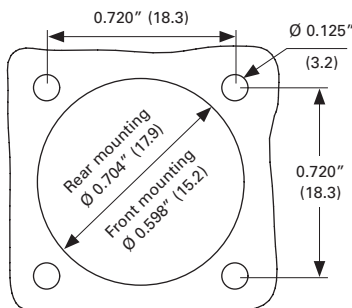
Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7

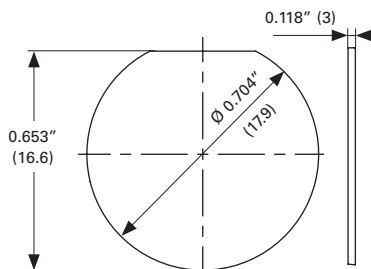


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Plastic protective cap



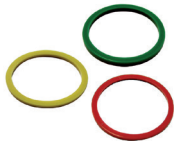
Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Souriau UTSX series

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

Contacts #20

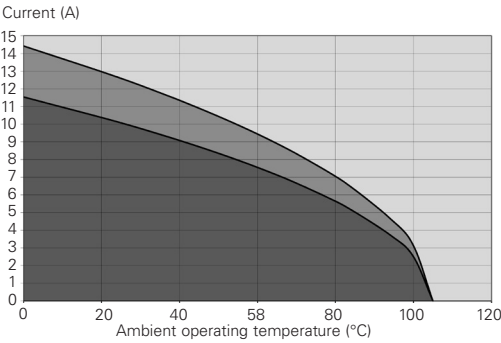
Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Handsoldier	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 32V 1.5kV 3

Electrical information according to the IEC 61984, with pollution degree IV and overvoltage category III.

UTSX 10E98/10D98 derating curves

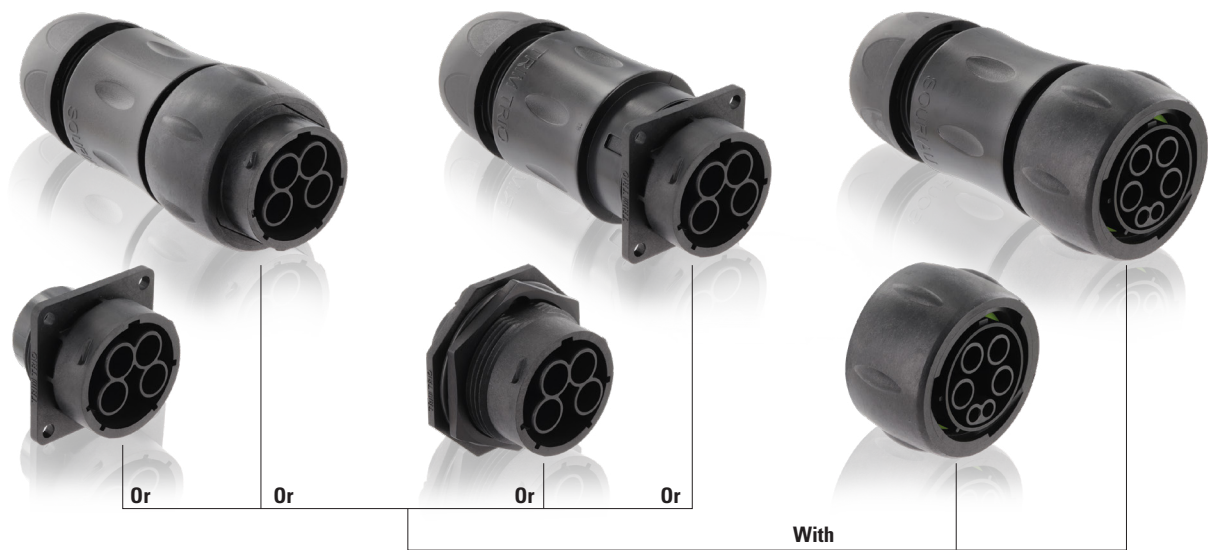


- Current use
- Limited use
- Not recommended use

Test conditions

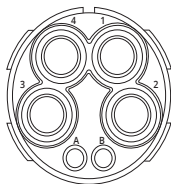
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 186



6 contacts
46A/600V per UL 1977
with AWG8 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 83	Square flange receptacle	Without (Fig. 1)	UTSX0186P	UTSX0186S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC186P	UTSX0JC186S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC186P	UTSX1JC186S
	Plug	Without (Fig. 4)	UTSX6186P	UTSX6186S
	Plug	Cable gland (Fig. 5)	UTSX6JC186P	UTSX6JC186S
	Jam nut receptacle	Without (Fig. 6)	UTSX7186P	UTSX7186S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX7186P32	UTSX7186S32
PCB contacts supplied separately see Page 83	Square flange receptacle	Without (Fig. 1)	UTSX0186P	UTSX0186S
	Jam nut receptacle	Without (Fig. 7)	UTSX7186P	UTSX7186S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

186 (Shell size 18, 4x#8, 2x#16)

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

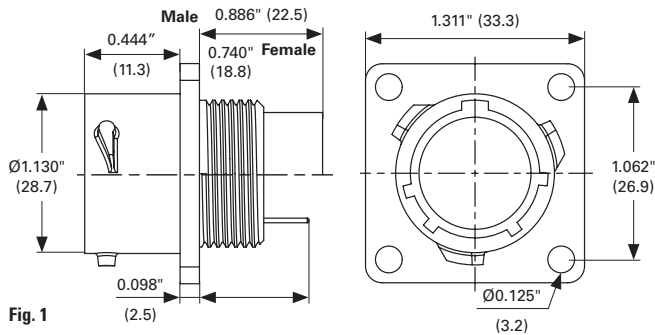


Fig. 1

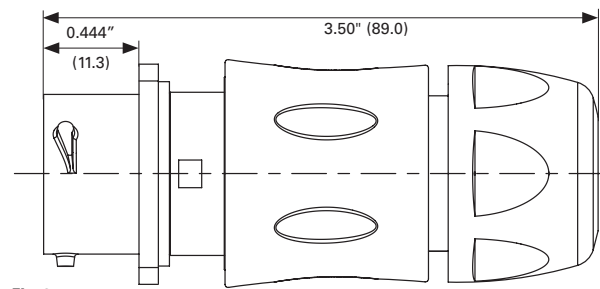


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

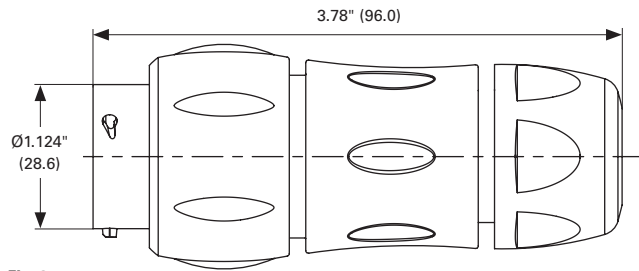


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

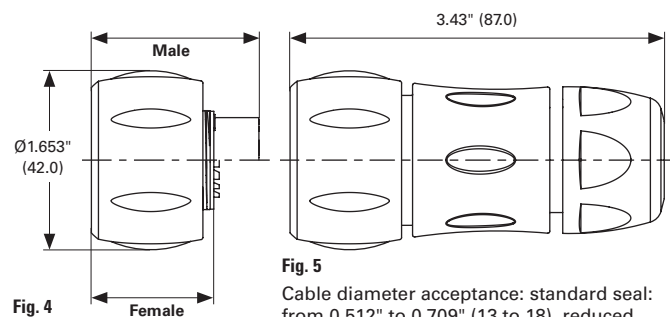


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

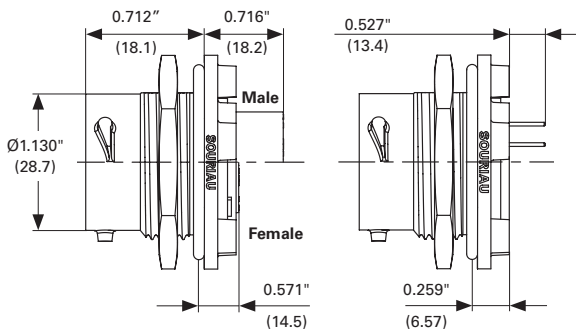


Fig. 6

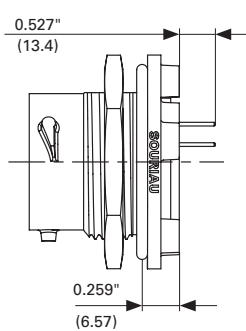


Fig. 7

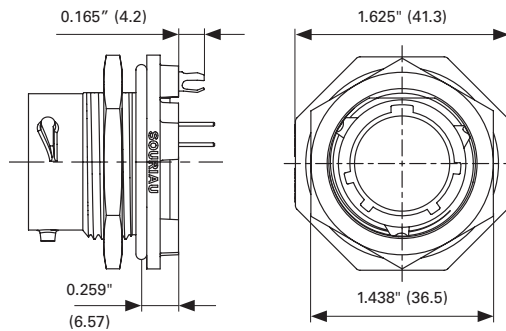
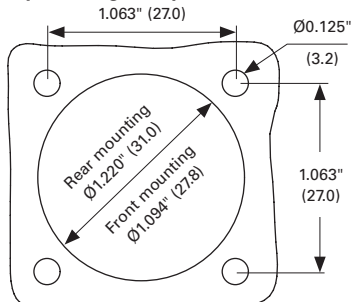


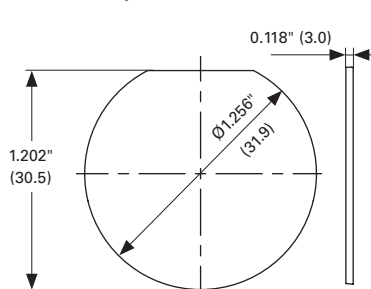
Fig. 8

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



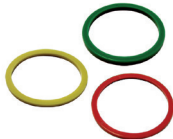
Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

Souriau UTSX series

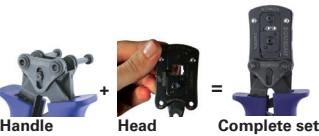
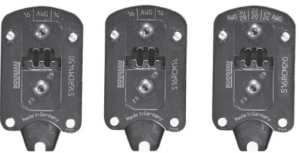
186 (Shell size 18, 4x#8, 2x#16)

Tooling

Tooling



Crimp tooling (without Shandles)



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see Page 199
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

#8 Machine contacts



Contact size	Part number
Shandle only	M317

Positioner + Locator setting #8



Contact size	Part number
For crimp contacts #8 Ø 0.141" (3.6)	VGE10078A

Extraction tool #8



Description	Part number
For crimp contacts #8 Ø 0.141" (3.6)	51060210936

Contacts #8

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max inch		Insulator Ø max	
		AWG	inch ² mm ²	Male	Female	mm	inch	mm
Crimp contacts	Machined	16	0.059" 1.48	82913601A ⁽¹⁾	82913600A ⁽¹⁾	0.067" 1.72	0.255"	6.5
Crimp contacts	Machined	14	0.098" 2.48	82913603A ⁽¹⁾	82913602A ⁽¹⁾	0.087" 2.20	0.255"	6.5
Crimp contacts	Machined	12	0.157" 4.00	82913605A ⁽¹⁾	82913604A ⁽¹⁾	0.111" 2.82	0.255"	6.5
Crimp contacts	Machined	10	0.236" 6.00	82913607A ⁽¹⁾	82913606A ⁽¹⁾	0.137" 3.48	0.255"	6.5
Crimp contacts	Machined	8	0.393" 10.00	82913609A ⁽¹⁾	82913608A ⁽¹⁾	0.171" 4.35	0.255"	6.5
PCB	Machined ⁽²⁾	—		82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	—	—	—

(1) Example of plating, for other plating see **Page 199**(2) For dimensions see **Page 206**

Contacts #16

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
	PCB	Machined ⁽³⁾	—			RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—
Coaxial	Cable multipiece	see Page 203			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—			RMPOF1000	RCPOF1000B	—	—	—	—
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—	—	—

(1) Example of plating, for other plating see **Page 199**

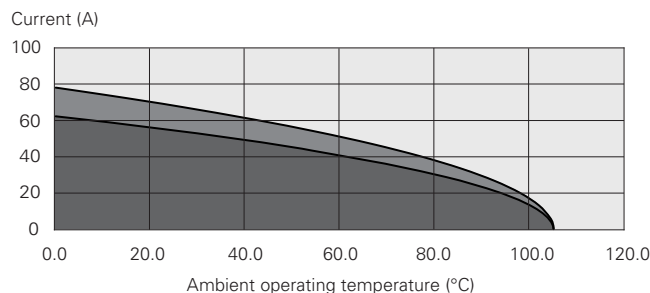
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
46A 600V with AWG8	40A 600V with AWG8	46A 320V 4kV 3

UTSX 186 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 8 AWG

Derating curves based on continuous current application.

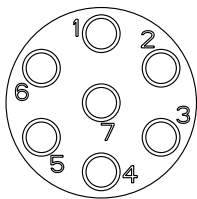
Souriau UTSX series

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



Connector part number

UTSX



147

6 contacts + ground
10A/500V per UL 1977
with AWG16 wire

14E7/14D7

6 contacts + ground
10A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 87	Square flange receptacle	Without (Fig. 1)	UTSX0147P	UTSX0147S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC147P	UTSX0JC147S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC147P	UTSX1JC147S
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	UTSX1GJC147P	–
	Plug	Without (Fig. 4)	UTSX6147P	UTSX6147S
	Plug	Cable gland (Fig. 5)	UTSX6JC147P	UTSX6JC147S
	Plug	Cable gland and grommet (Fig. 5)	–	UTSX6GJC147S
	Jam nut receptacle	Without (Fig. 6)	UTSX7147P	UTSX7147S
	Jam nut receptacle	Cable gland and grommet (Fig. 10)	UTSX7GJC147P	–
Screw contacts loaded	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC147PSCR	–
	Plug	Cable gland (Fig. 5)	UTSX6JC147PSCR	UTSX6JC147SSCR
	Jam nut receptacle	Without (Fig. 9)	UTSX7147PSCR	UTSX7147SSCR
PCB contacts loaded see Page 87	Jam nut receptacle	Without (Fig. 1)	UTSX7147PSEK9	–
Handsold electrical contacts loaded see Page 87	Square flange receptacle	Without (Fig. 1)	UTSX014E7P	UTSX014E7S
	Plug	Without (Fig. 4)	UTSX614E7P	UTSX614E7S
	Plug	Cable gland (Fig. 5)	UTSX6JC14E7P	UTSX6JC14E7S
	Jam nut receptacle	Without (Fig. 6)	UTSX714E7P	UTSX714E7S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTSX014D7P	UTSX014D7S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	UTSX714D7P	UTSX714D7S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX714D7P32	UTSX714D7S32

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

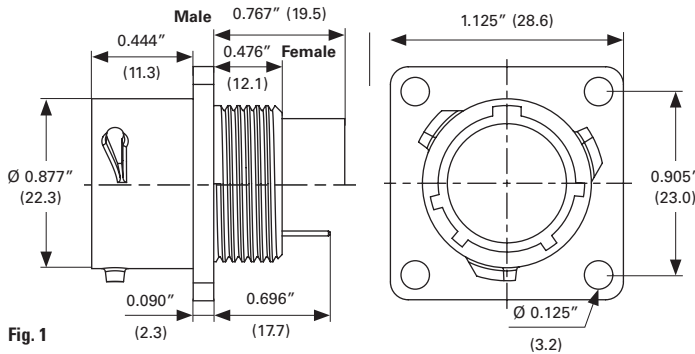


Fig. 1

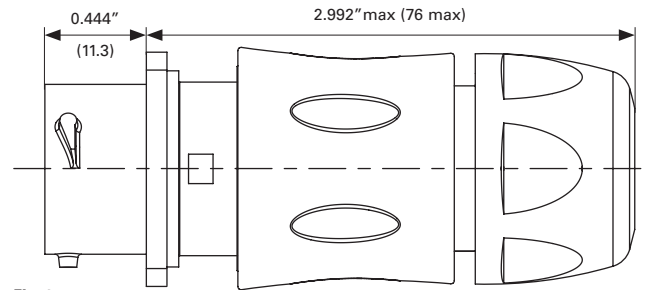


Fig. 2

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC and UTSXGJC

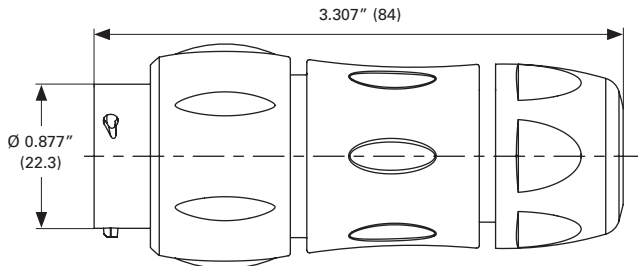


Fig. 3

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6, UTSX6JC and UTSX6GJC

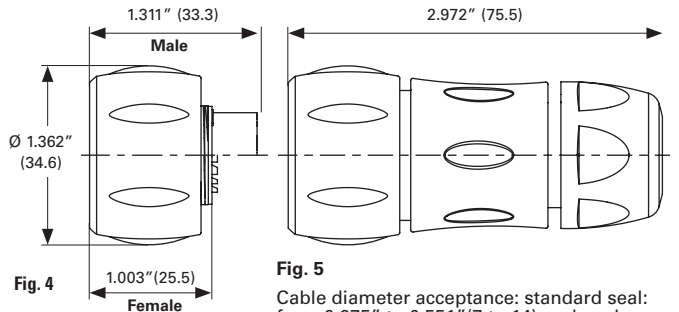


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

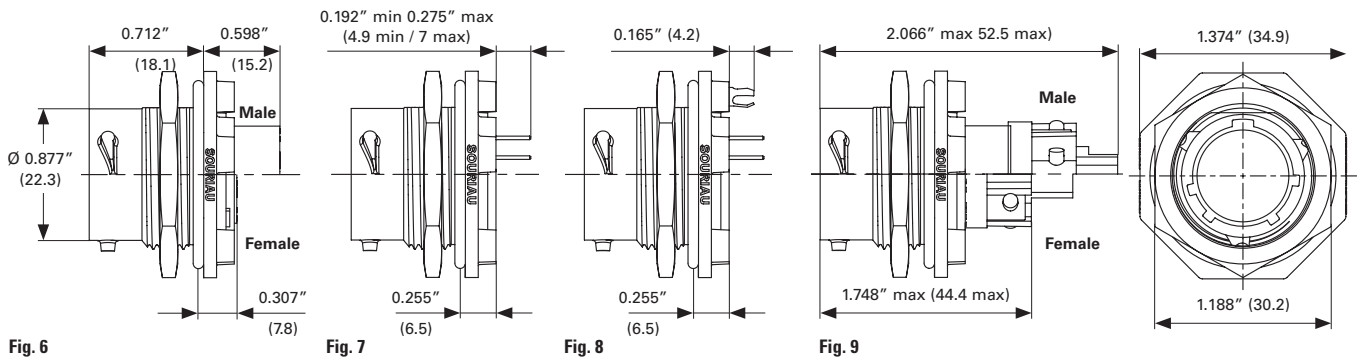


Fig. 6

Fig. 7

Fig. 8

Fig. 9

Jam nut receptacle UTSX7GJC

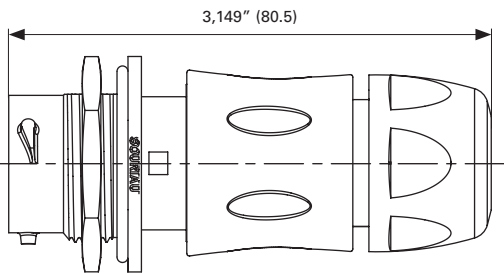
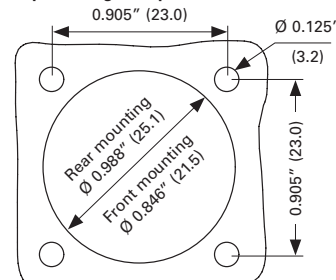


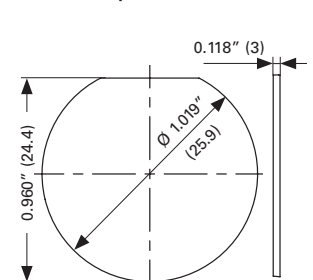
Fig. 10

Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



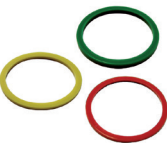
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Tooling

Tooling



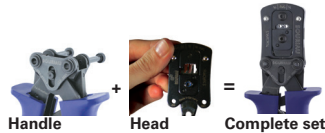
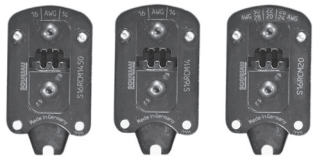
Description

Handle (without head)
Box containing handle and several crimp tooling

Part number

Shandles
Toolkit

Crimp tooling (without Shandles)



Contact size

Standard contacts
#16
Ø 0.062" (1.6)

Contacts

RM/RC 28M1K⁽¹⁾
RM/RC 24M9K⁽¹⁾
RM/RC 20M13K⁽¹⁾
RM/RC 20M12K⁽¹⁾
RM/RC 16M23K⁽¹⁾
RM/RC 14M30K⁽¹⁾
SM/SC 24ML1TK6⁽¹⁾
SM/SC 20ML1TK6⁽¹⁾
SM/SC 16ML1TK6⁽¹⁾
SM/SC 14ML1TK6⁽¹⁾
SM/SC 16ML1TK6⁽¹⁾

Part number of Head

S16RCM20*
S16RCM20*
S16RCM20*
S16RCM20*
S16RCM16*
S16RCM14*
S16SCM20*
S16SCM20*
S16SCML1*
S16SCML1*
S16SCML11*

(1) Example of plating, for other plating options see **Page 199**

* Heads to be used with handle PN: SHANGLES

#16, #12 and #8 machined contacts



Description

Crimp tool
Die casts and stop bushings

Part number

M20S-1J
See **Page 211**

Extraction tool #16

Fig. 1



Fig. 2



Description

Fig. 1
Fig. 2 - Long endurance tool

Part number

RX2025GE1
RX2031J

Souriau UTSX series

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

Contacts #16

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
	14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20	
PCB	Machined ⁽³⁾	—			RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Page 203			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—			RMP0F1000	RCPOF1000B	—	—	—	—
Handsoldier	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—	—	—

(1) Example of plating, for other plating see Page 199

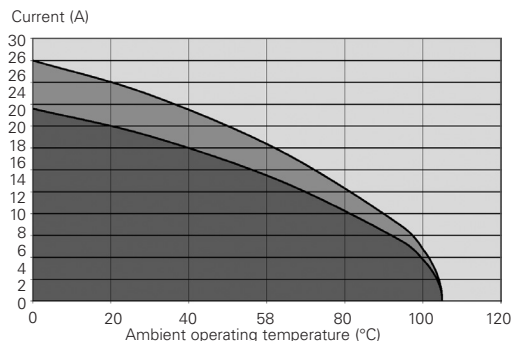
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) For dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
UTSX 147 10A 500V with AWG16 wire	7A 500V with AWG16 wire	7A 150V 1.5kV 3
UTSX 14E7/14D7 10A 600V with AWG16 wire	7A 600V with AWG16 wire	7A 150V 1.5kV 3

UTSX 147 - 14E7/14D7 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

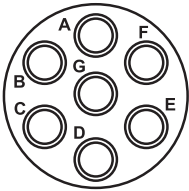
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 10E7/10D7



7 contacts 6A/250V
per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 91	Square flange receptacle	Without (Fig. 1)	UTSX010E7P	UTSX010E7S
	Plug	Without (Fig. 5)	UTSX610E7P	UTSX610E7S
	Plug	Cable gland (Fig. 3)	UTSX6JC10E7P	UTSX6JC10E7S
	Jam nut receptacle	Without (Fig. 4)	UTSX710E7P	UTSX710E7S
PCB contacts loaded see Page 91	Square flange receptacle	Without (Fig. 2)	UTSX010D7P	UTSX010D7S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX710D7P	UTSX710D7S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX710D7P32	UTSX710D7S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

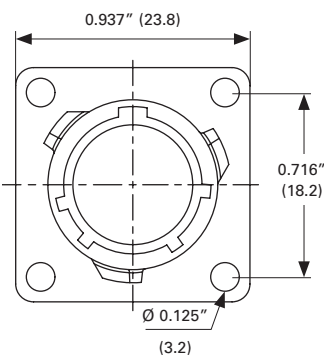
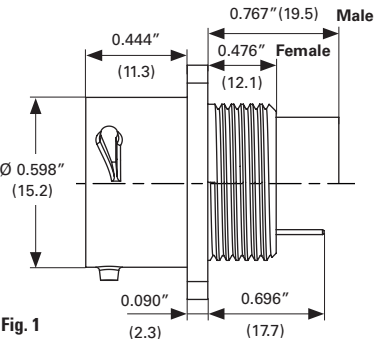
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

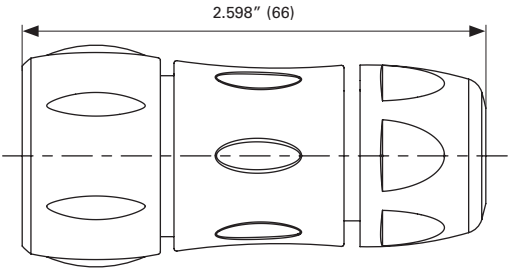
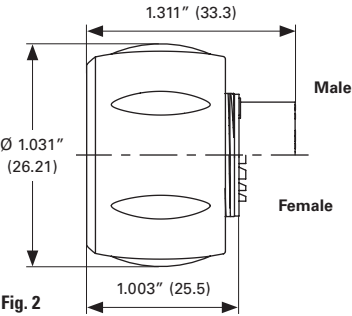
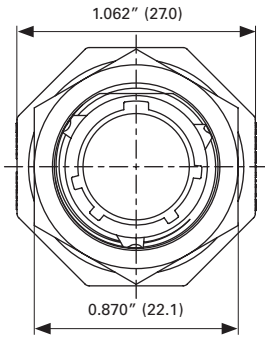
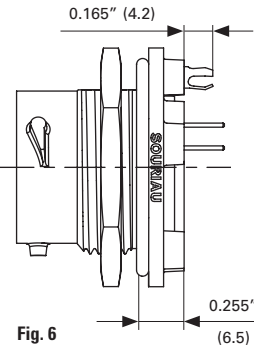
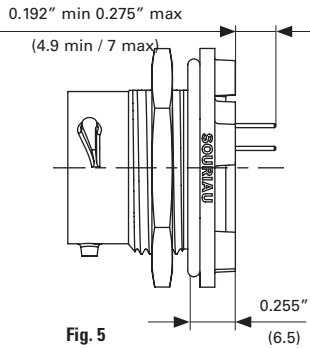
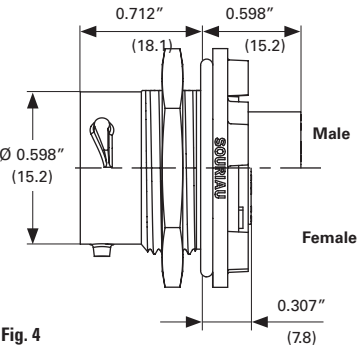


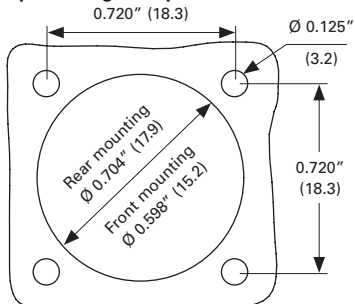
Fig. 3
Cable diameter acceptance: standard seal: from 0.098" to 0.314" (2.5 to 8), reduced seal: from 0.059" to 0.196" (1.5 to 5)

Jam nut receptacle UTSX7

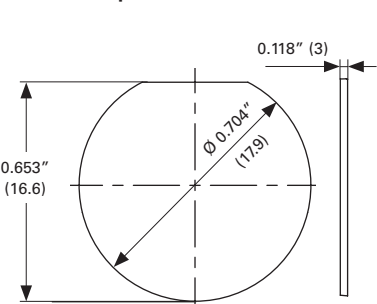


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS10DCG
IP68 - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68	UTX610DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Souriau UTSX series

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

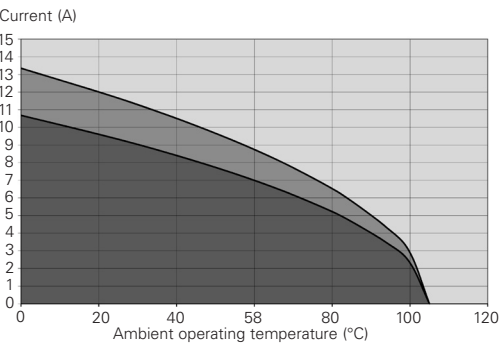
Contacts #20

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Handsold	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 50V 1.5kV 3

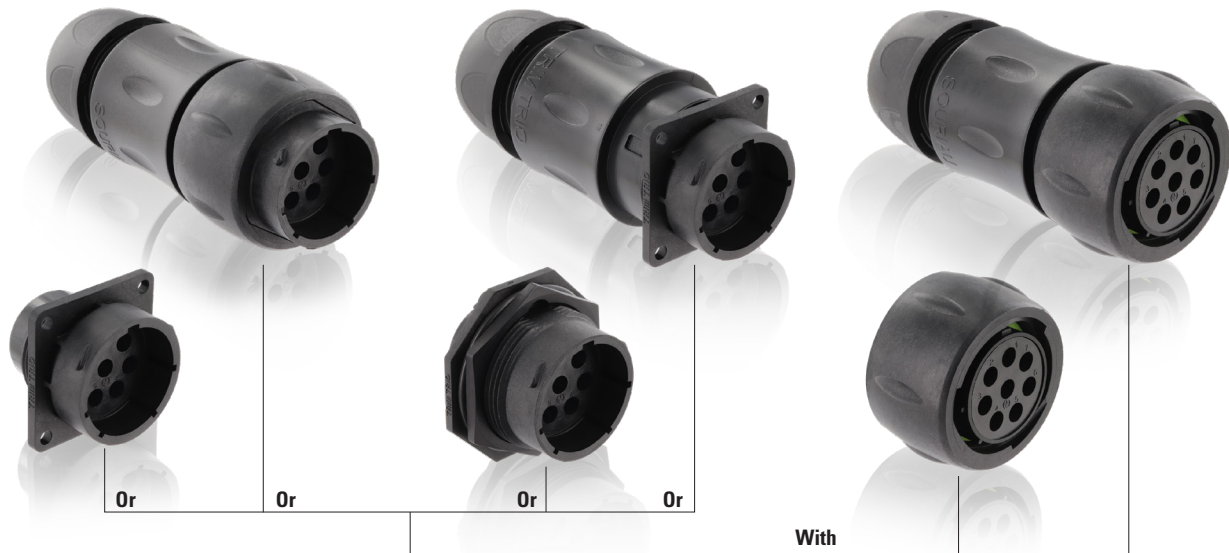
UTSX 10E7/10D7 derating curves



- Current use
- Limited use
- Not recommended use

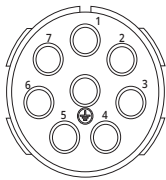
Test conditions
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 187G1



7 contacts + ground
23A/600V per UL 1977
with AWG12 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 96	Square flange receptacle	Without (Fig. 1)	UTSX0187G1P	UTSX0187G1S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC187G1P	UTSX0JC187G1S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC187G1P	UTSX1JC187G1S
	Plug	Without (Fig. 4)	UTSX6187G1P	UTSX6187G1S
	Plug	Cable gland (Fig. 5)	UTSX6JC187G1P	UTSX6JC187G1S
	Jam nut receptacle	Without (Fig. 6)	UTSX7187G1P	UTSX7187G1S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX7187G1P32	UTSX7187G1S32
	Jam nut receptacle	Without (Fig. 7)	UTSX7187G1P	UTSX7187G1S
PCB contacts supplied separately see Page 96	Square flange receptacle	Without (Fig. 1)	UTSX0187G1P	UTSX0187G1S
	Jam nut receptacle	Without (Fig. 7)	UTSX7187G1P	UTSX7187G1S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

187G1 (Shell size 18, 7 + ground, 8x#12)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

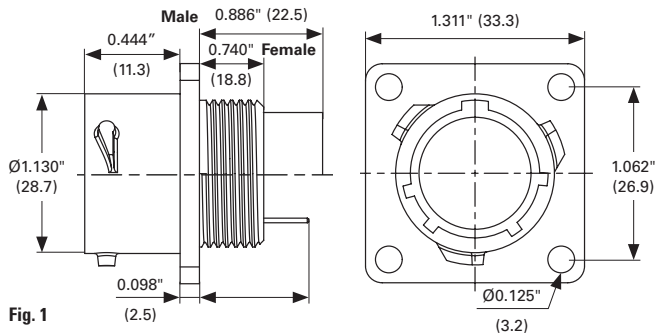


Fig. 1

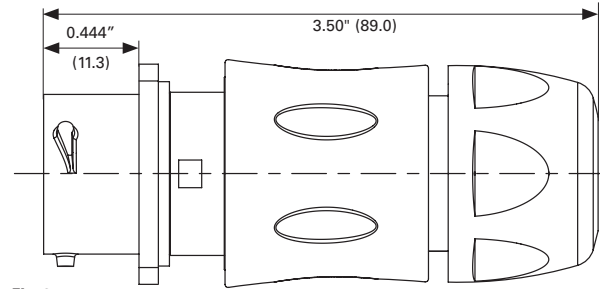


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

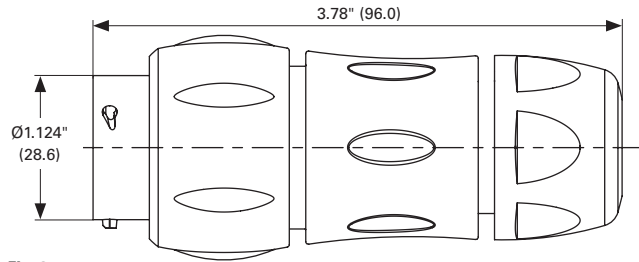


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

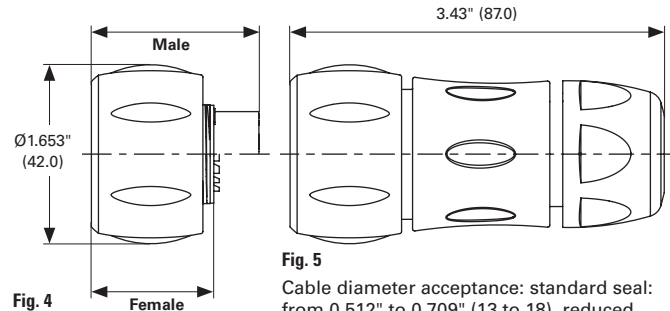


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

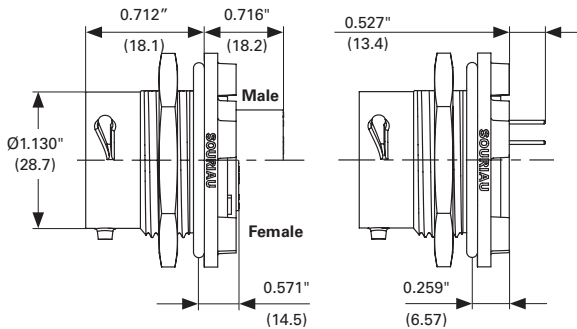


Fig. 6

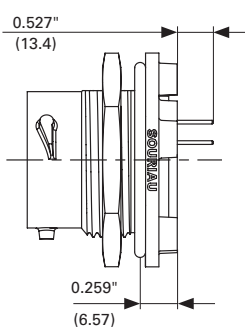


Fig. 7

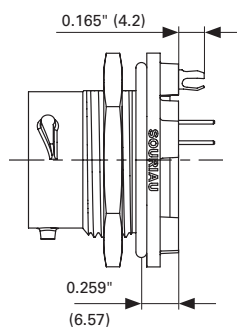
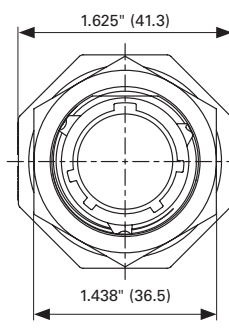
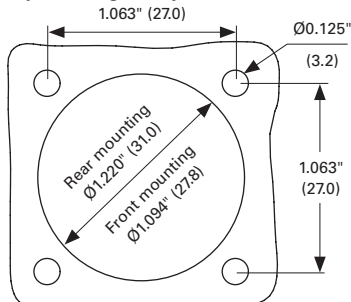


Fig. 8

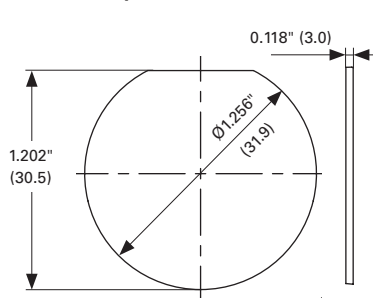


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



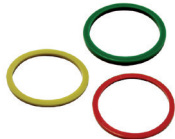
Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

Tooling

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Souriau UTSX series

187G1 (Shell size 18, 7 + ground, 8x#12)

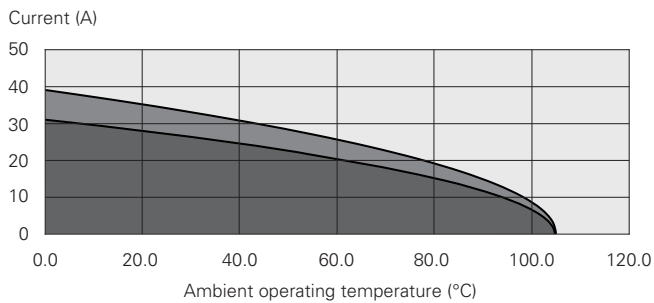
Contacts #12

Contact style	Contact type	Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	20	0.020"	0.52	82911457NA	82911456A	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	82911459NA	82911458A	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	82911461NA	82911460A	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	82911463NA	82911462A	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	82911465NA	82911464A	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	82911467NA	82911466A	0.111"	2.82	0.192"	4.90

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12 wire	22A 600V with AWG12 wire	23A 250V 4kV3

UTSX 187G1 derating curves

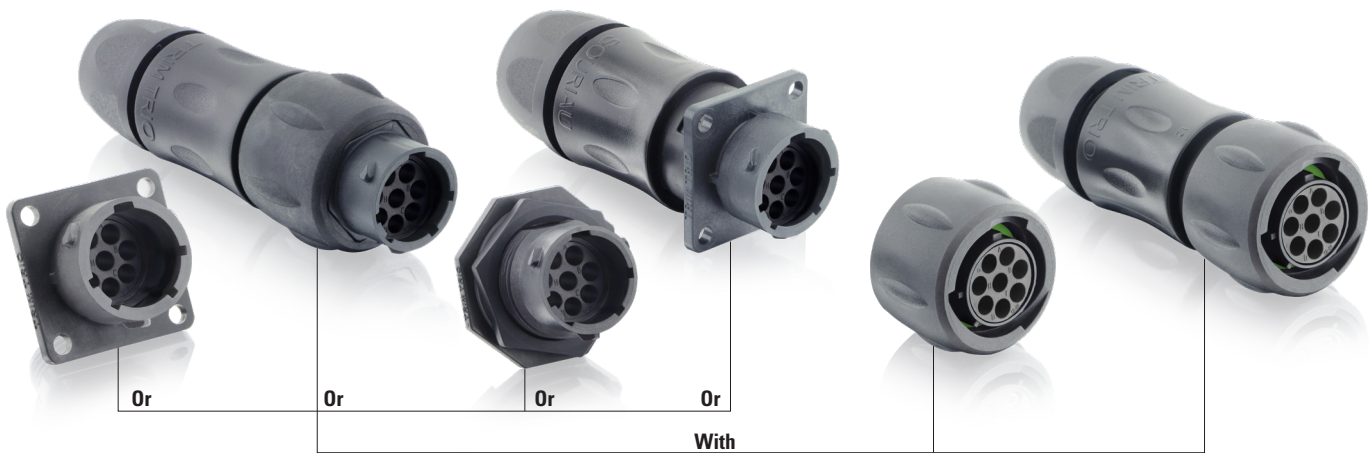


- Current use
- Limited use
- Not recommended use

Test conditions

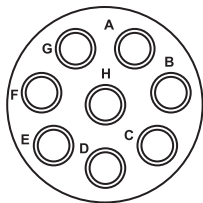
Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 128



8 contacts
10A/500V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 101	Square flange receptacle	Without (Fig. 1)	UTSX0128P	UTSX0128S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC128P	UTSX0JC128S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC128P	UTSX1JC128S
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	UTSX1GJC128P	–
	Plug	Without (Fig. 4)	UTSX6128P	UTSX6128S
	Plug	Cable gland (Fig. 5)	UTSX6JC128P	UTSX6JC128S
	Plug	Cable gland and grommet (Fig. 5)	–	UTSX6GJC128S
	Jam nut receptacle	Without (Fig. 6)	UTSX7128P	UTSX7128S
PCB contacts supplied separately see Page 101	Jam nut receptacle	Cable gland and grommet (Fig. 8)	UTSX7GJC128P	–
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX7128P	UTSX7128S
PCB contacts loaded see Page 101	Jam nut receptacle with stand off and hold down clip	Without (Fig. 7)	UTSX7128PSEK9	–

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

128 (Shell size 12, 8x#16)

Dimensions (For mated connector lengths see Page 215)

Square flange receptacle - UTSX0 and UTSX0JC

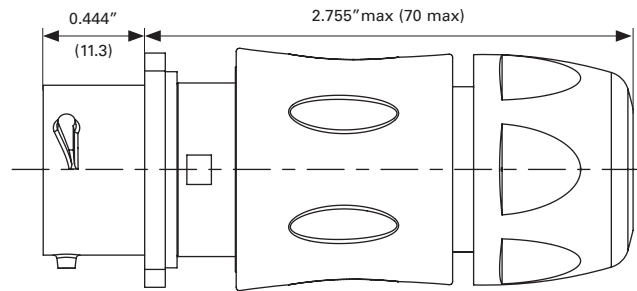
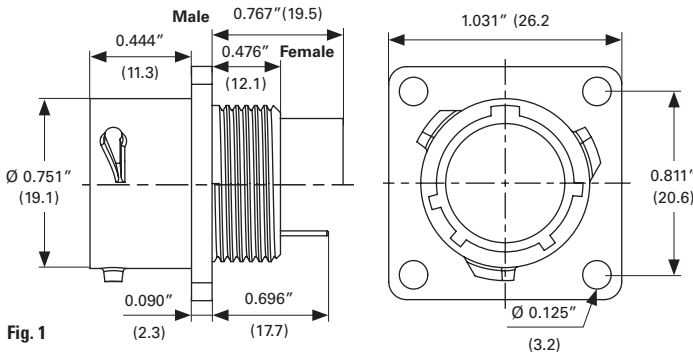


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Free hanging - UTSX1JC and UTSX1GJC

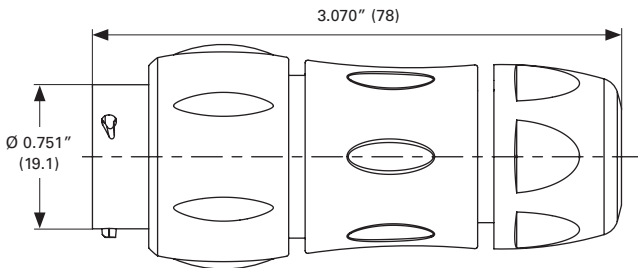


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Plug - UTSX6, UTSX6JC and UTSX6GJC

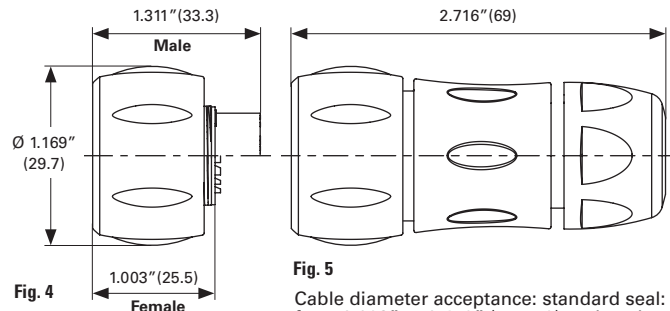


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7 and UTSX7GJC

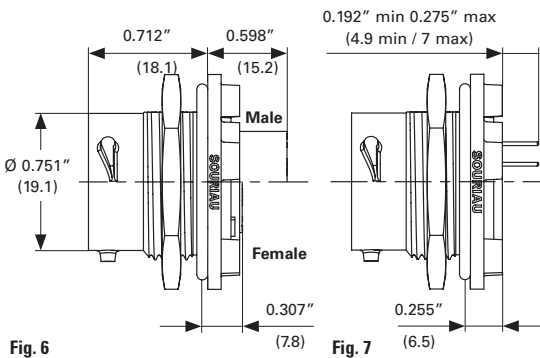


Fig. 6

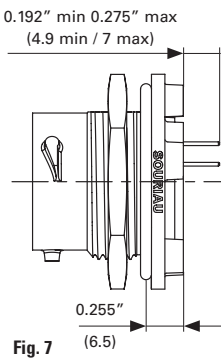


Fig. 7

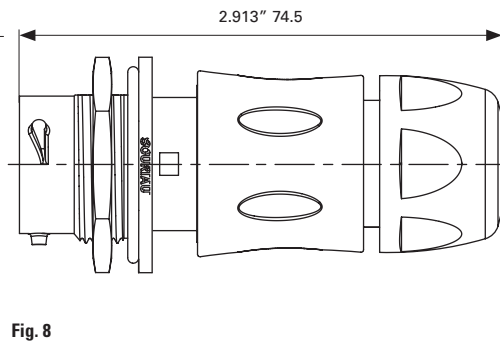
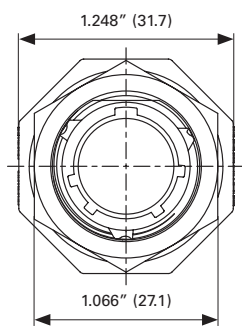
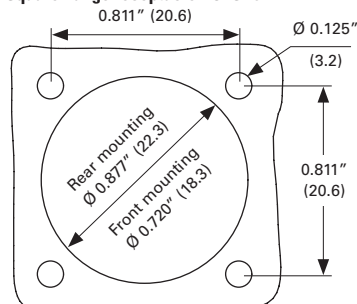


Fig. 8

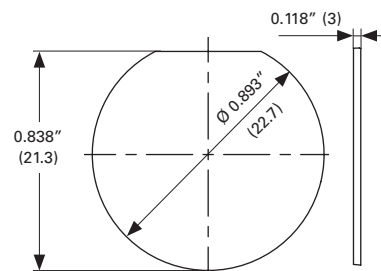


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



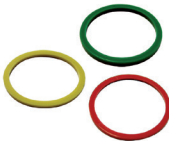
Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Souriau UTSX series

128 (Shell size 12, 8x#16)

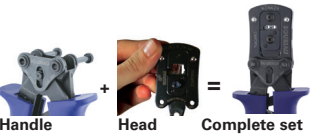
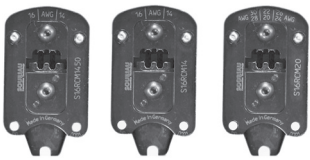
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see [Page 199](#)
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Male	Female	Wire Ø max inch		Insulator Ø max	
		AWG	inch ² mm ²				mm		inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
		—	—	—	—	—	—	—	—	—
Coaxial	Cable multipiece	see Page 202	—	—	RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 202	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 202	—	—	RMDXK10D28 + yox090	RCDXK1D28 + yox090	—	—	—	—
	Twisted pair monocrimp	see Page 202	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—
Handsold	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—	—	—

(1) Example of plating, for other plating see Page 199

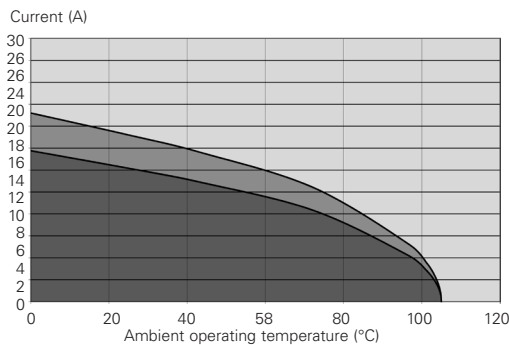
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) For dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	10A 80V 1.5kV 3

UTSX 128 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 16 AWG

Derating curves based on continuous current application.

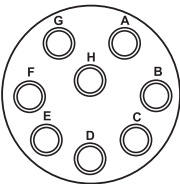
Souriau UTSX series

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



Connector part number

UTSX 12E8/12D8



8 contacts
4.5A/250V per
UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 105	Square flange receptacle	Without (Fig. 1)	UTSX012E8P	UTSX012E8S
	Plug	Without (Fig. 2)	UTSX612E8P	UTSX612E8S
	Plug	Cable gland (Fig. 3)	UTSX6JC12E8P	UTSX6JC12E8S
	Jam nut receptacle	Without (Fig. 4)	UTSX712E8P	UTSX712E8S
PCB contacts loaded see Page 105	Square flange receptacle	Without (Fig. 1)	UTSX012D8P	UTSX012D8S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX712D8P	UTSX712D8S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX712D8P32	UTSX712D8S32

For discrimination/keying methods see **Page 224**

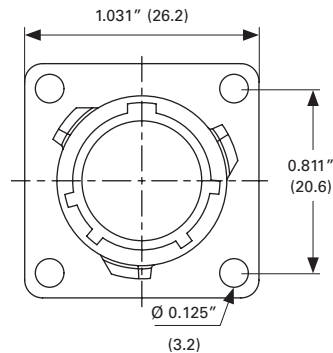
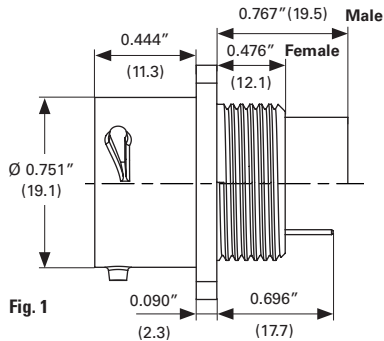
Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

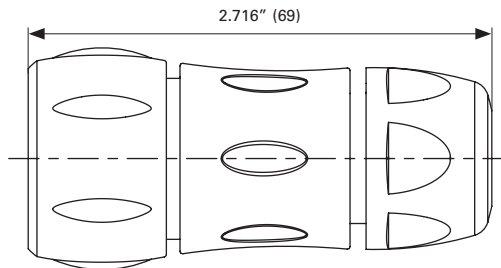
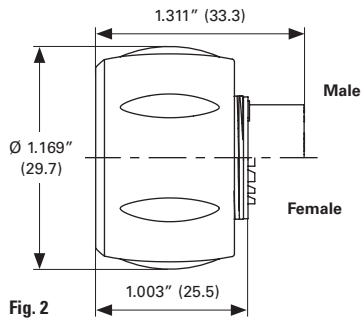
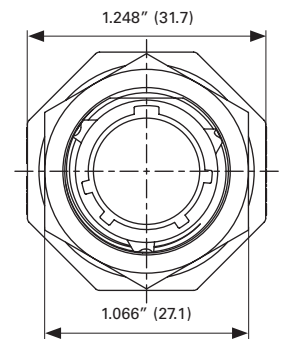
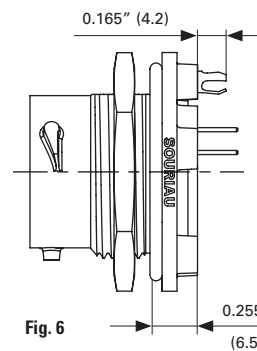
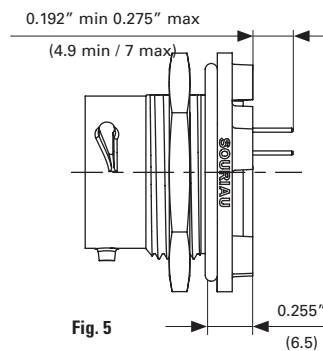
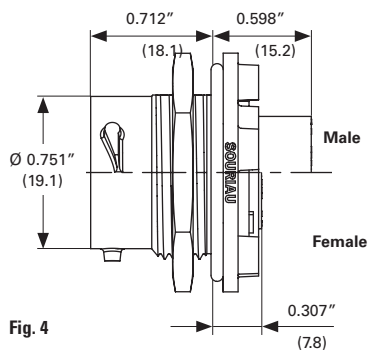


Fig. 3

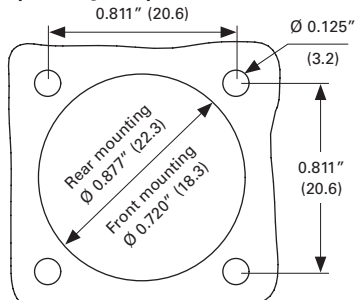
Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7

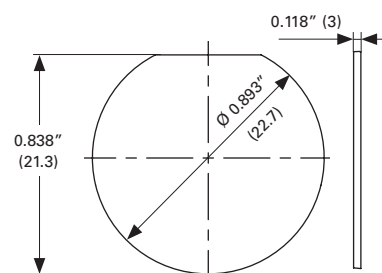


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



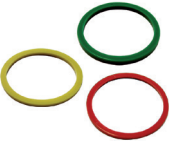
Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Contacts #20

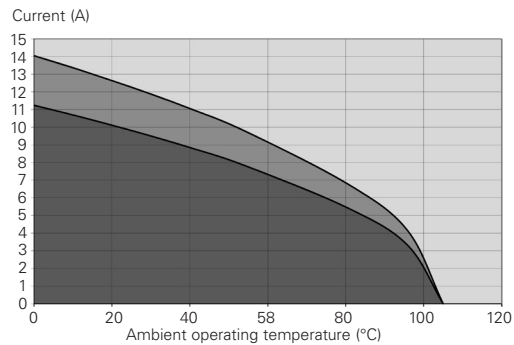
Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
			inch ²	mm ²	inch	mm
Handsolder Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	20-18	0.020"-0.031"	0.32-0.80	0.149"	3.8
PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—	—

(1) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
4.5A 250V with AWG20 wire	4.5A 250V with AWG20 wire	6A 32V 1.5kV 3

UTSX 12E8/12D8 derating curves



- Current use
- Limited use
- Not recommended use

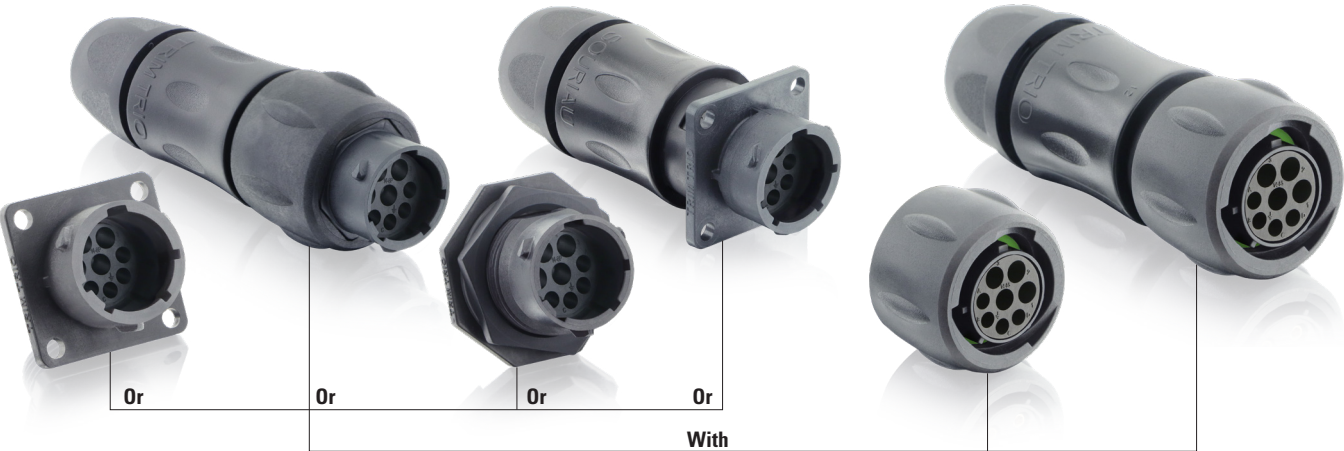
Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

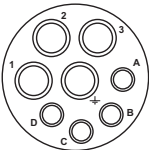
Souriau UTSX series

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



Connector part number

UTSX 148



4 contacts 25A 600V
per UL1977 with
AWG14 wire

4 contacts 5A/600V
per UL1977 AWG16
wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 111	Square flange receptacle	Without (Fig. 1)	UTSX0148P	UTSX0148S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC148P	UTSX0JC148S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC148P	UTSX1JC148S
	Plug	Without (Fig. 4)	UTSX6148P	UTSX6148S
	Plug	Cable gland (Fig. 5)	UTSX6JC148P	UTSX6JC148S
	Jam nut receptacle	Without (Fig. 6)	UTSX7148P	UTSX7148S

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

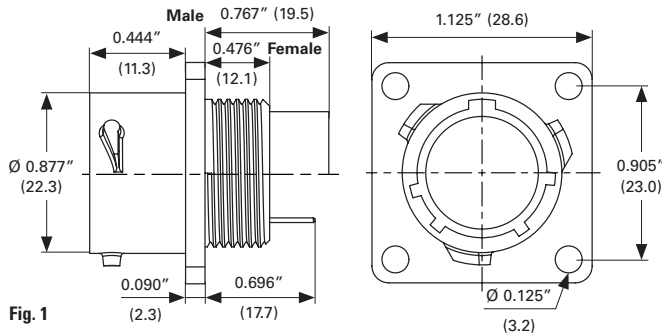


Fig. 1

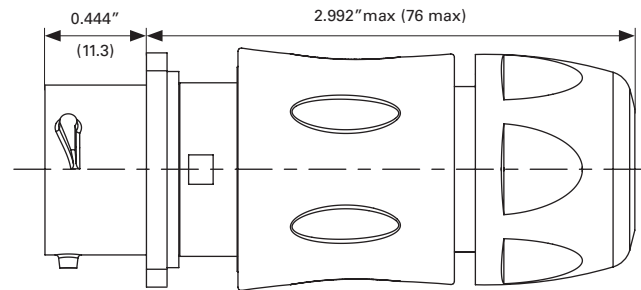


Fig. 2

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC

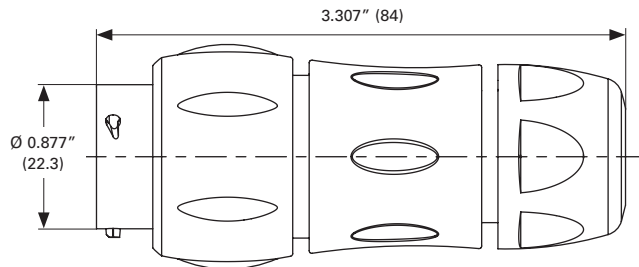


Fig. 3

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6 and UTSX6JC

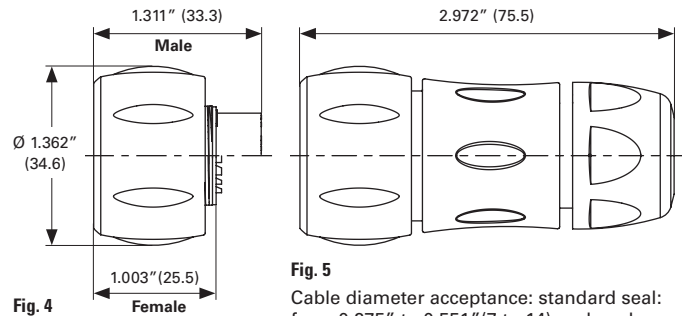


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

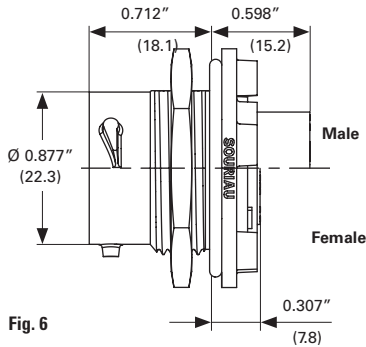
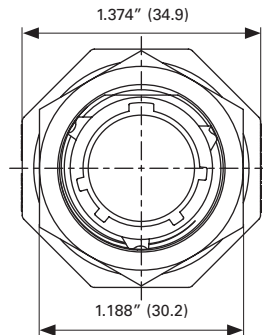
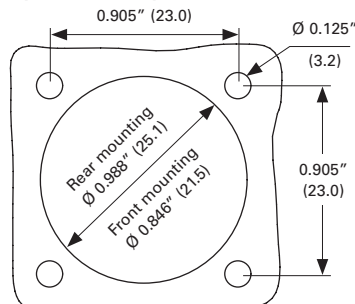


Fig. 6

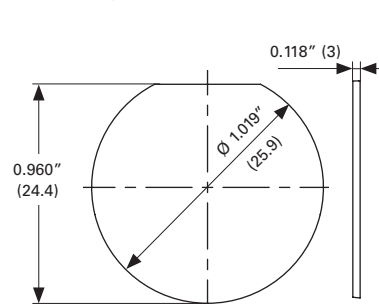


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



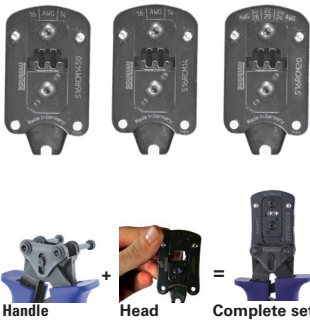
Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Tooling

#16 machined or stamped contacts



Crimp tooling (without Shandles)



Extraction tool #16



Crimp tooling #12



#16, #12 and #8 machined contacts



Extraction tool #20



Dimensions in inches (millimeters)

Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see **Page 198**

* Heads to be used with handle PN: SHANDLES

Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Description	Part number
Contacts #12 Ø 0.094" (2.4)	51060210924

Souriau UTSX series

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

Contacts #16

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
	Machined	20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
	Machined	16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
		26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
PCB	Machined ⁽³⁾	—			RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Page 203			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—

(1) Example of plating, for other plating see Page 199

(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

Contacts #12

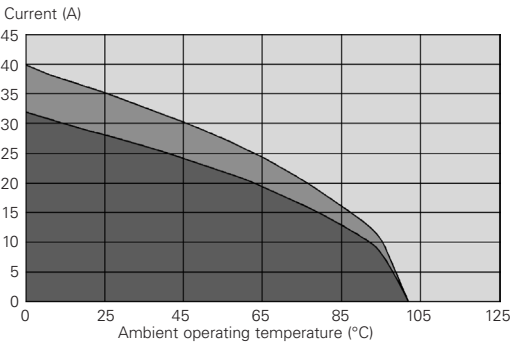
Contact style	Contact type	Cable acceptance	Cable acceptance	Part number		Wire Ø max inch		Insulator Ø max		
		AWG	inch²	mm²	Male	Female	mm	inch	mm	
Crimp contacts	Machined	20	—	—	82911457NA ⁽¹⁾	82911456A ⁽¹⁾	0.027"	0.7	0.192"	4.90
		20	—	—	82911459NA ⁽¹⁾	82911458A ⁽¹⁾	0.044"	1.12	0.192"	4.90
		18	—	—	82911461NA ⁽¹⁾	82911460A ⁽¹⁾	0.055"	1.42	0.192"	4.90
		16	—	—	82911463NA ⁽¹⁾	82911462A ⁽¹⁾	0.067"	1.72	0.192"	4.90
		14	—	—	82911465NA ⁽¹⁾	82911464A ⁽¹⁾	0.087"	2.20	0.192"	4.90
		12	—	—	82911467NA ⁽¹⁾	82911466A ⁽¹⁾	0.111"	2.82	0.192"	4.90

(1): Example of plating, for other plating see Page 199

Electrical characteristics

UL	CSA	IEC
25A 600V with AWG14 5A 600V with AWG20	17A 600V with AWG14 5A 600V with AWG20	17A 230V 1.5kV 3

UTSX 148 derating curves



- Current use
- Limited use
- Not recommended use

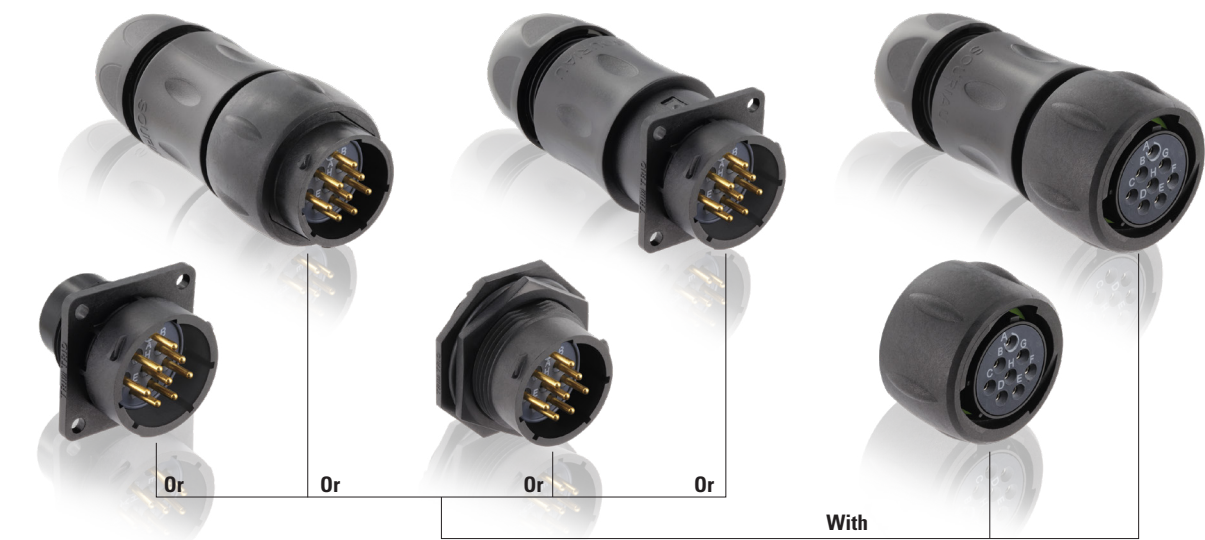
Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

Souriau UTSX series

16E8/16D8 (Shell size 16, 8x#16)



Connector part number

UTSX 16E8 / 16D8



8 contacts
10A/500V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Hand solder electrical contacts loaded see Page 115	Square flange receptacle	Without (Fig. 1)	UTSX016E8P	UTSX016E8S
	Plug	Without (Fig. 4)	UTSX616E8P	UTSX616E8S
	Plug	Cable gland (Fig. 5)	UTSX6JC16E8P	UTSX6JC16E8S
	Jam nut receptacle	Without (Fig. 6)	UTSX716E8P	UTSX716E8S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX716E8P32	UTSX716E8S32
PCB contacts loaded see Page 115	Square flange receptacle	Without (Fig. 3)	UTSX016D8P	UTSX016D8S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	UTSX716D8P	UTSX716D8S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX716D8P32	UTSX716D8S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

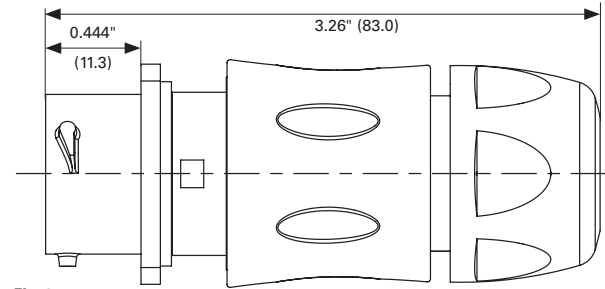
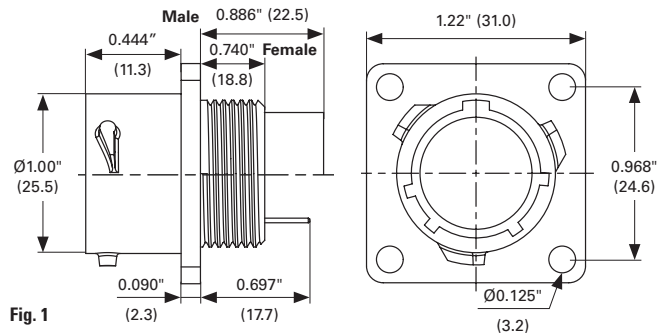


Fig. 2
Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

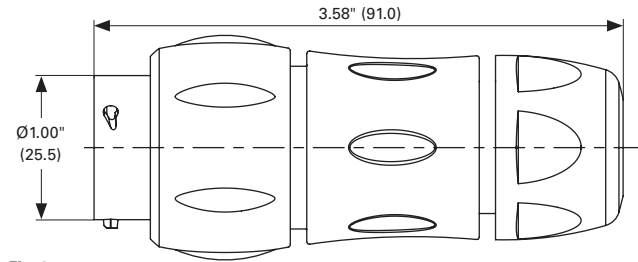


Fig. 3
Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

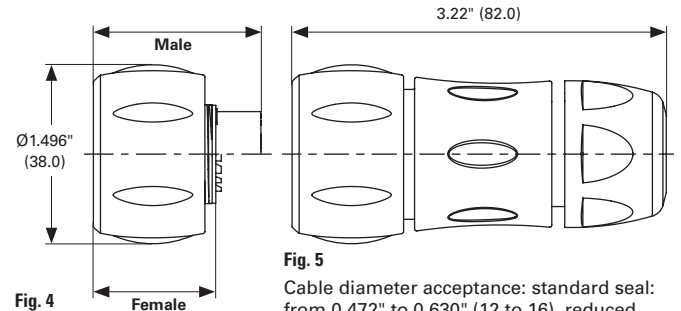
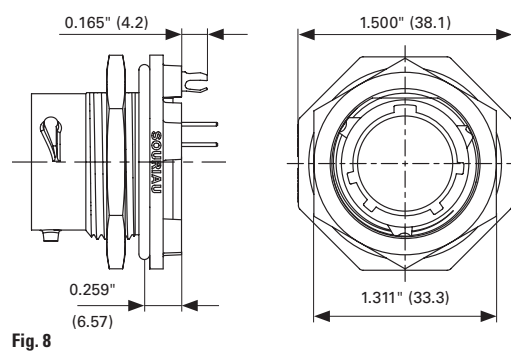
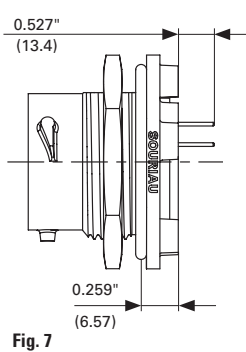
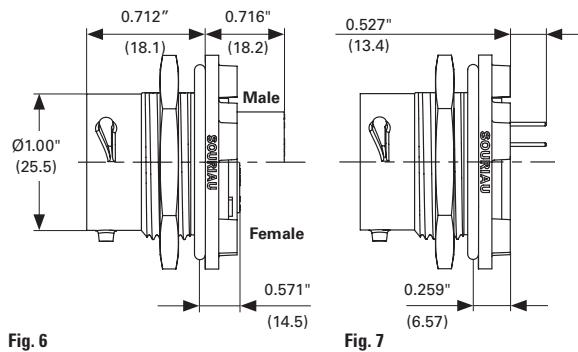


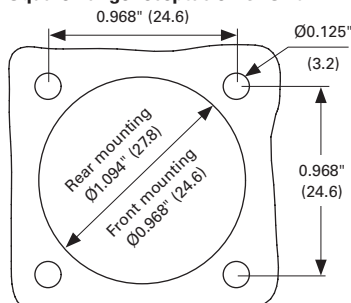
Fig. 5
Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

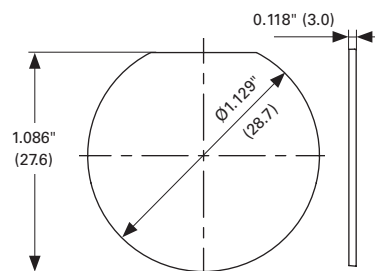


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

16E8/16D8 (Shell size 16, 8x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



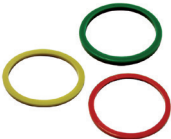
Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings

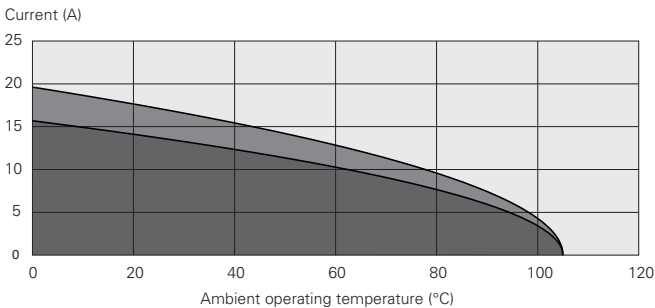


Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	10A 500V with AWG16 wire	13A 80V 3kV 3

UTSX 16E8/16D8 derating curves



- Current use
- Limited use
- Not recommended use

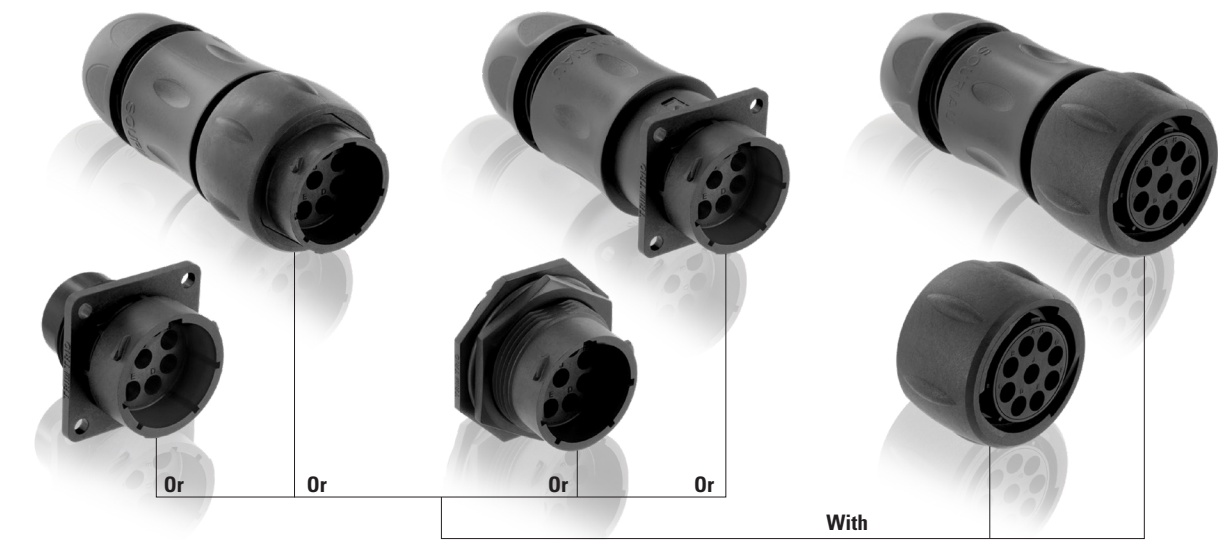
Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

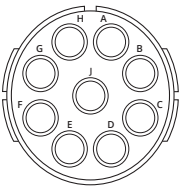
Souriau UTSX series

169 (Shell size 16, 9x#12)



Connector part number

UTSX 169



9 contacts
23A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 119	Square flange receptacle	Without (Fig. 1)	UTSX0169P	UTSX0169S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC169P	UTSX0JC169S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC169P	UTSX1JC169S
	Plug	Without (Fig. 4)	UTSX6169P	UTSX6169S
	Plug	Cable gland (Fig. 5)	UTSX6JC169P	UTSX6JC169S
	Jam nut receptacle	Without (Fig. 6)	UTSX7169P	UTSX7169S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX7169P32	UTSX7169S32
PCB contacts supplied separately see Page 119	Square flange receptacle	Without (Fig. 1)	UTSX0169P	UTSX0169S
	Jam nut receptacle	Without (Fig. 7)	UTSX7169P	UTSX7169S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

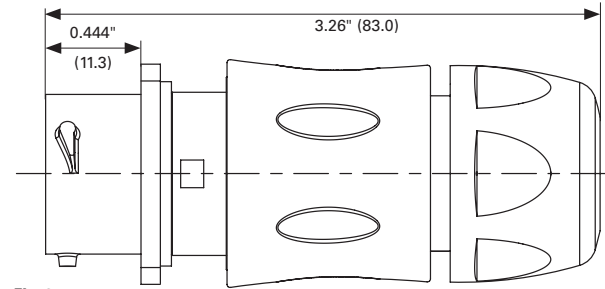
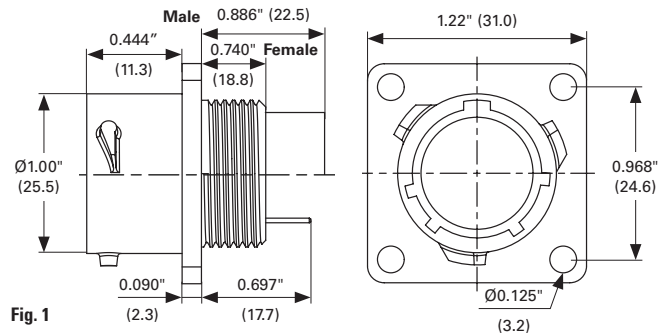


Fig. 2
Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

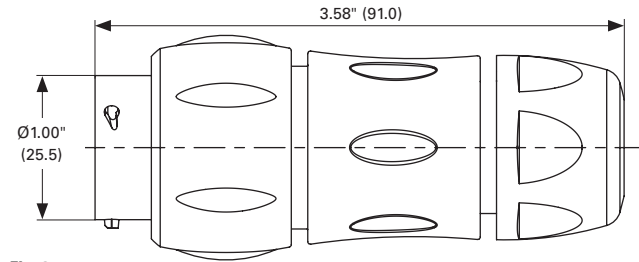


Fig. 3
Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

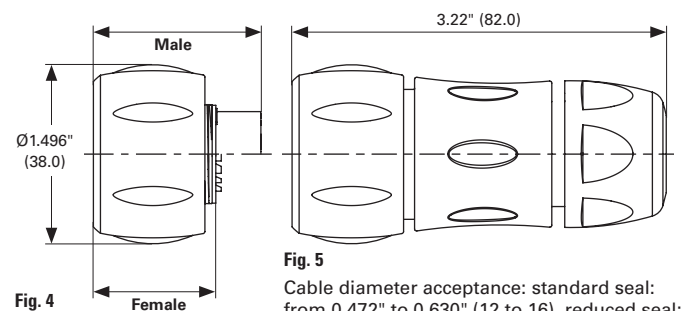
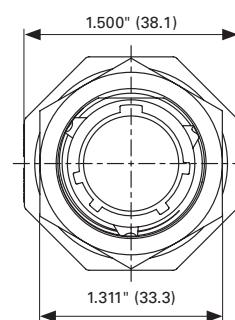
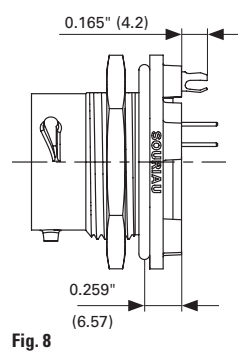
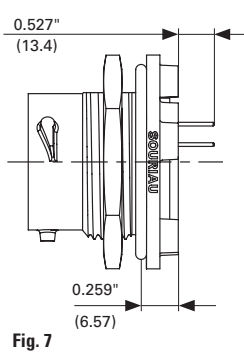
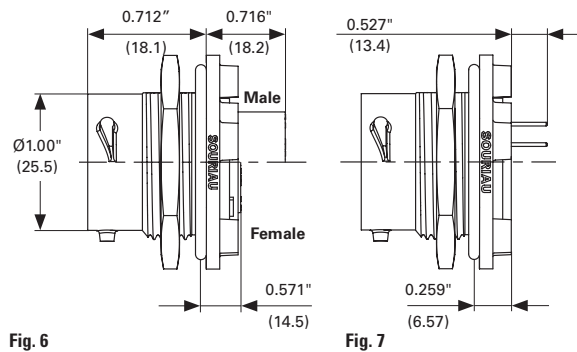


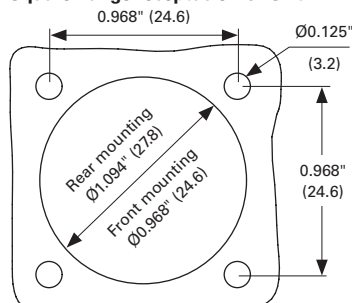
Fig. 5
Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

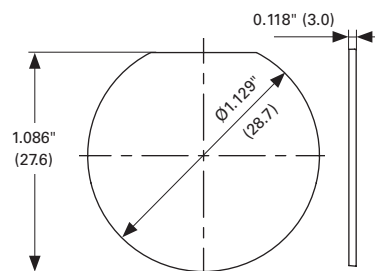


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

169 (Shell size 16, 9x#12)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

Tooling

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

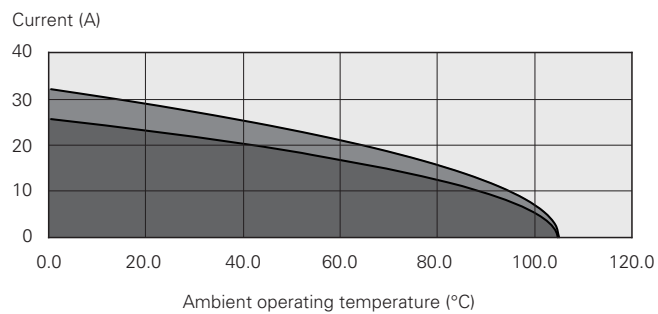
Contacts #12

Contact style	Contact type	Cable acceptance			Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	20	0.020"	0.52	82911457NA	82911456A	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	82911459NA	82911458A	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	82911461NA	82911460A	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	82911463NA	82911462A	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	82911465NA	82911464A	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	82911467NA	82911466A	0.111"	2.82	0.192"	4.90

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12	17A 600V with AWG12	22A 160V 2.5kV 3

UTSX 169 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.

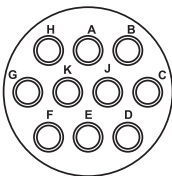
Souriau UTSX series

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



Connector part number

UTSX



1210

10 contacts
5A/250V
per UL 1977
with AWG20 wire

12E10/12D10

10 contacts 4.5A /
250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 124	Square flange receptacle	Without (Fig. 1)	UTSX01210P	UTSX01210S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1210P	UTSX0JC1210S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1210P	UTSX1JC1210S
	Plug	Without (Fig. 4)	UTSX61210P	UTSX61210S
	Plug	Cable gland (Fig. 5)	UTSX6JC1210P	UTSX6JC1210S
	Jam nut receptacle	Without (Fig. 6)	UTSX71210P	UTSX71210S
Handsolder electrical contacts loaded see Page 124	Square flange receptacle	Without (Fig. 1)	UTSX012E10P	UTSX012E10S
	Plug	Without (Fig. 4)	UTSX612E10P	UTSX612E10S
	Plug	Cable gland (Fig. 5)	UTSX6JC12E10P	UTSX6JC12E10S
	Jam nut receptacle	Without (Fig. 6)	UTSX712E10P	UTSX712E10S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTSX012D10P	UTSX012D10S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	UTSX712D10P	UTSX712D10S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX712D10P32	UTSX712D10S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

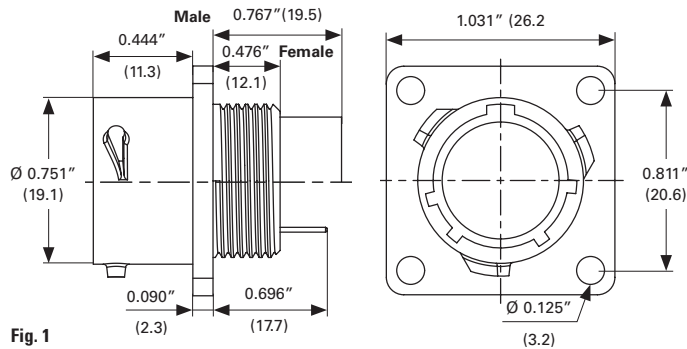


Fig. 1

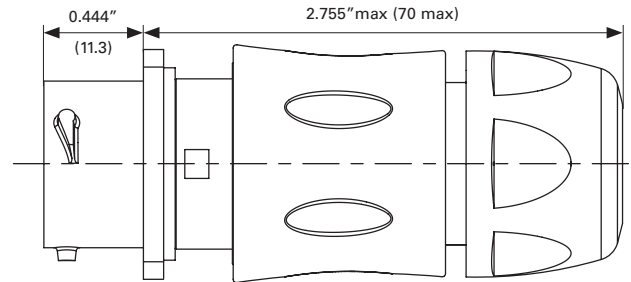


Fig. 2

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Free hanging - UTSX1JC

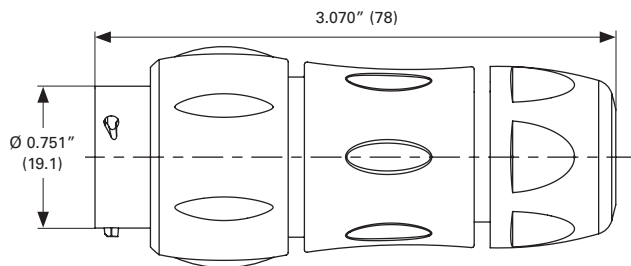


Fig. 3

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Plug - UTSX6 and UTSX6JC

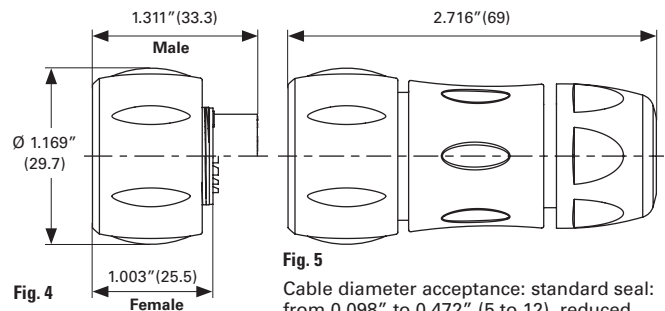


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.098" to 0.472" (5 to 12), reduced seal: from 0.118" to 0.354" (3 to 9)

Jam nut receptacle UTSX7

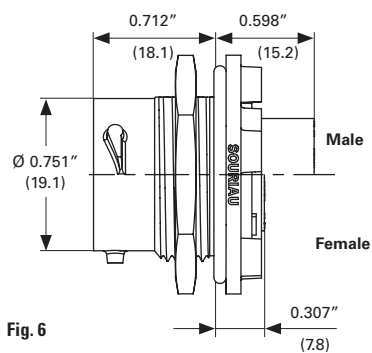


Fig. 6

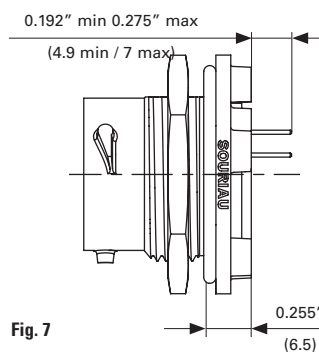


Fig. 7

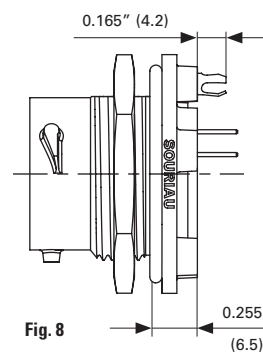
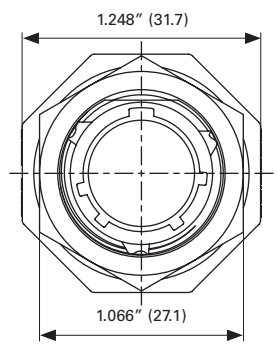
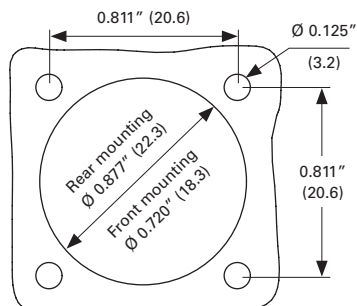


Fig. 8

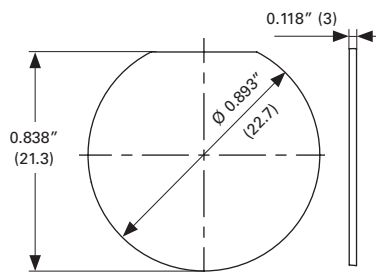


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



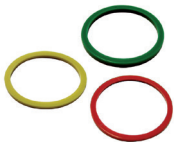
Part number recep- tacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

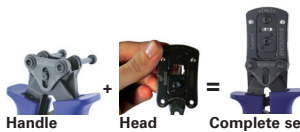
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	RM/RC 24W3K ⁽¹⁾	S20RCM*
	RM/RC 20W3K ⁽¹⁾	S20RCM*
	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see Page 199
(2) Loose contact
* Heads to be used with handle PN: SHANGLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1)	RX20D44

Souriau UTSX series

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

Contacts #20

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
	Machined	20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6 ⁽¹⁾	SC24W3TK6 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
	reeled contacts	26-24	0.005"-0.009"	0.13-0.25	SM24W3S26 ⁽¹⁾	SC24W3S25 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
	See note ⁽¹⁾	22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6 ⁽¹⁾	SC20W3TK6 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
	for loose piece	22-20	0.012"-0.020"	0.32-0.52	SM20W3S26 ⁽¹⁾	SC20W3S25 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
PCB	Machined ⁽²⁾	—	—	—	RMW5016K	RCW5016K	—	—	—	—

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

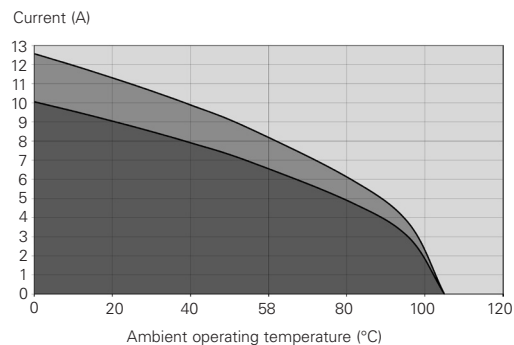
(2) for dimensions see **Pages 206**

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Hand solder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
UTSX 1210 5A 250V with AWG20 wire	4A 250V with AWG20 wire	6A 50V 1.5kV 3
UTSX 12E10/12D10 4.5A 250V with AWG20 wire	4.5A 250V with AWG20 wire	6A 50V 1.5kV 3

UTSX 1210 - 12E10/12D10 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

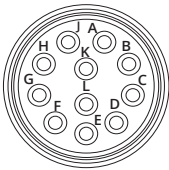
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 18E11 /18D11



11 contacts
10A/500V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 128	Square flange receptacle	Without (Fig. 1)	UTSX018E11P	UTSX018E11S
	Plug	Without (Fig. 4)	UTSX618E11P	UTSX618E11S
	Plug	Cable gland (Fig. 5)	UTSX6JC18E11P	UTSX6JC18E11S
	Jam nut receptacle	Without (Fig. 6)	UTSX718E11P	UTSX718E11S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX718E11P32	UTSX718E11S32
PCB contacts loaded see Page 128	Square flange receptacle	Without (Fig. 3)	UTSX018D11P	UTSX018D11S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	UTSX718D11P	UTSX718D11S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX718D11P32	UTSX718D11S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

18E11/18D11 (Shell size 18, 11x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

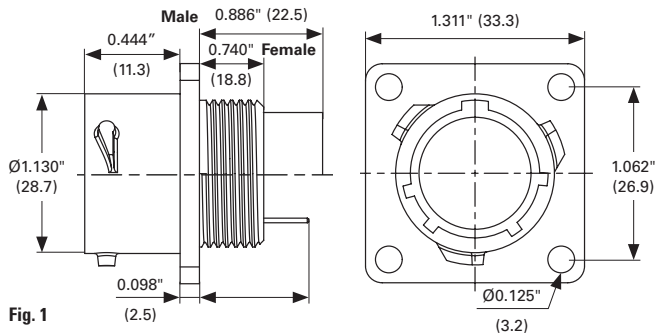


Fig. 1

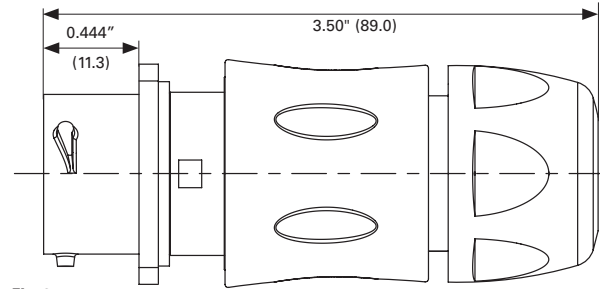


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

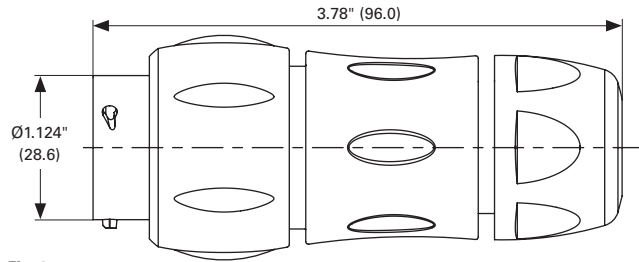


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

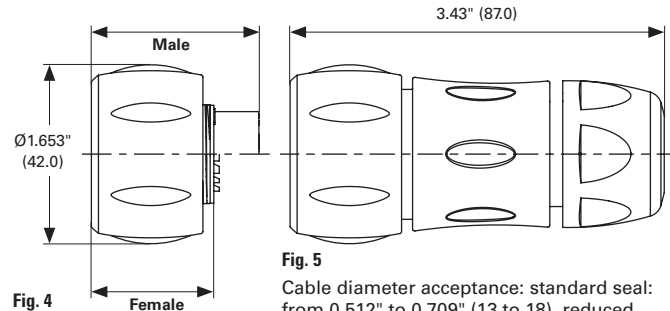


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

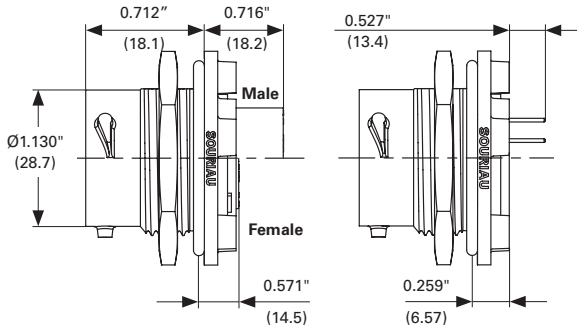


Fig. 6

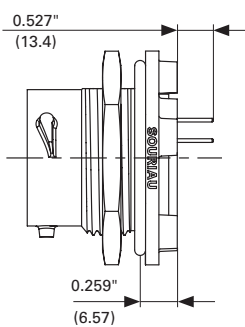


Fig. 7

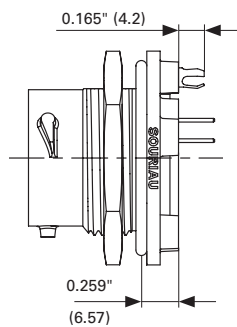
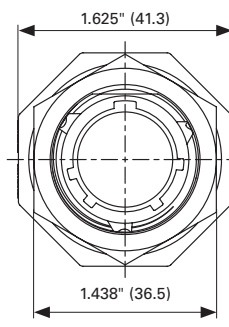
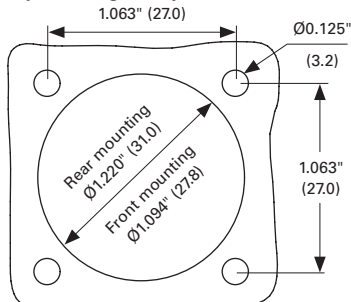


Fig. 8

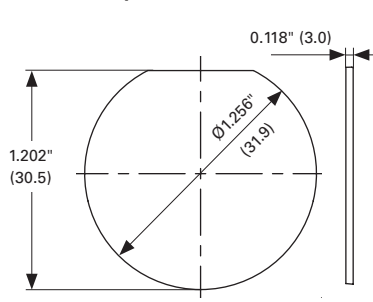


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



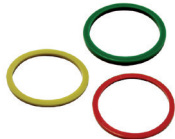
Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

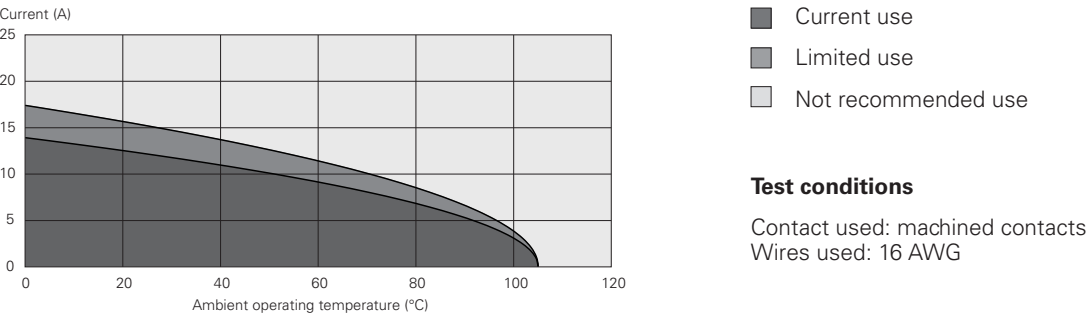
Souriau UTSX series

18E11/18D11 (Shell size 18, 11x#16)

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	10A 500V with AWG16 wire	13A 40V 2.5kV 3

UTSX 18E11/18D11 derating curves

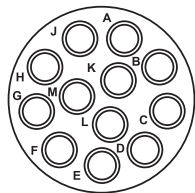


Derating curves based on continuous current application.



Connector part number

UTSX 1412



12 contacts
16A/500V
per UL 1977 with
AWG14 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately See Page 133	Square flange receptacle	Without (Fig. 1)	UTSX01412P	UTSX01412S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1412P	UTSX0JC1412S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1412P	UTSX1JC1412S
	Free hanging receptacle	Cable gland and grommet (Fig. 3)	UTSX1GJC1412P	–
	Plug	Without (Fig. 4)	UTSX61412P	UTSX61412S
	Plug	Cable gland (Fig. 5)	UTSX6JC1412P	UTSX6JC1412S
	Plug	Cable gland and grommet (Fig. 5)	–	UTSX6GJC1412S
PCB contacts supplied separately See Page 133	Jam nut receptacle	Without (Fig. 6)	UTSX71412P	UTSX71412S
	Jam nut receptacle	Cable gland and grommet (Fig. 7)	UTSX7GJC1412P	–
	Square flange receptacle	Without (Fig. 1)	UTSX01412P	UTSX01412S
	Jam nut receptacle	Without (Fig. 6)	UTSX71412P	UTSX71412S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

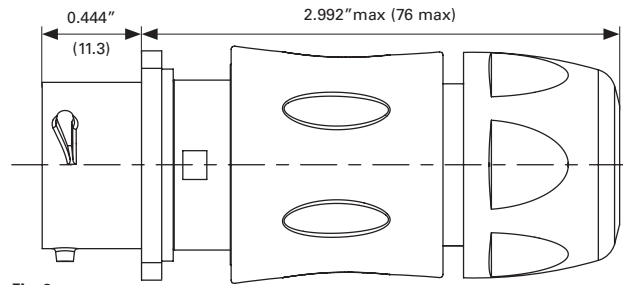
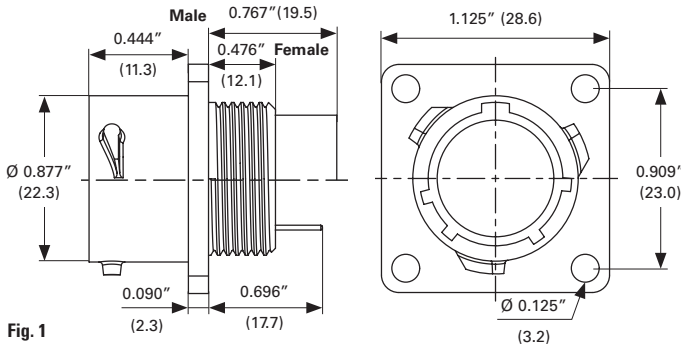
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1412 (Shell size 14, 12x#16)

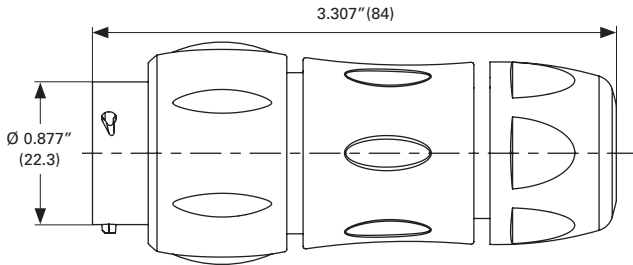
Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC



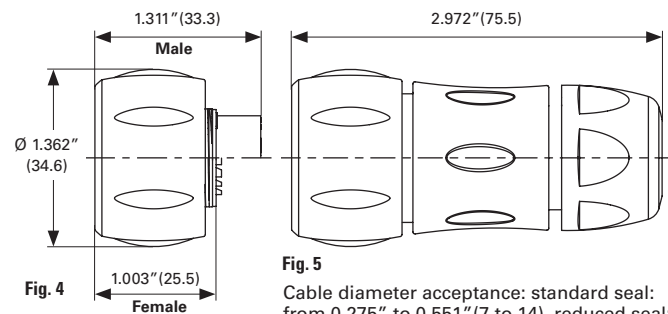
Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC and UTSX1GJC



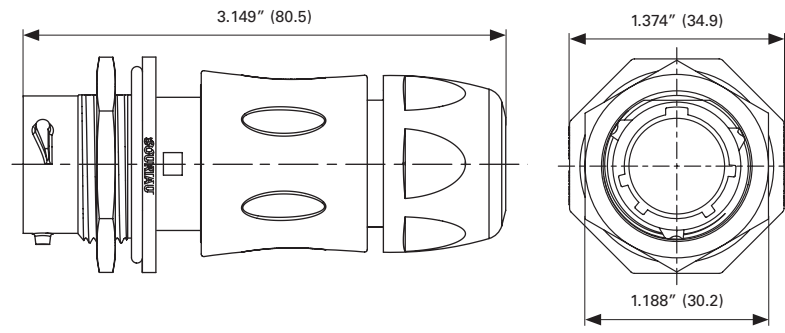
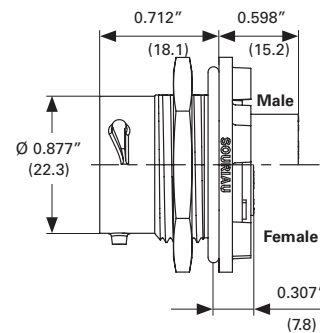
Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6, UTSX6JC and UTSX6GJC



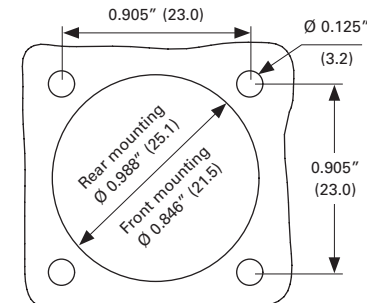
Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7 and UTSX7GJC

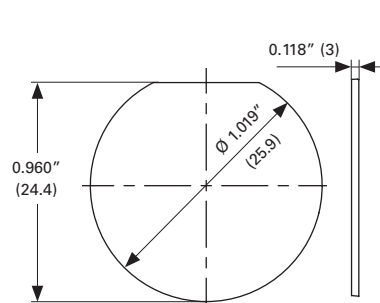


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



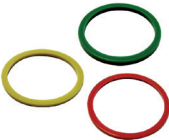
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Souriau UTSX series

1412 (Shell size 14, 12x#16)

Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see **Page 199**
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²		Male	Female	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—
		—	—	—	—	—	—	—
Coaxial	Cable multipiece	see Page 202	—	—	RMDXK10D28	RCDXK1D28	—	—
	Cable monocrimp	see Page 202	—	—	RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece	see Page 202	—	—	RMDXK10D28 + yox090	RCDXK1D28 + yox090	—	—
	Twisted pair monocrimp	see Page 202	—	—	RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—
Hand solder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—

(1) Example of plating, for other plating see Page 199

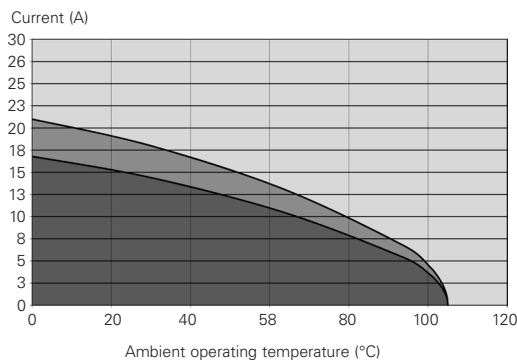
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
16A 500V with AWG14 wire	16A 500V with AWG14 wire	10A 63V 1.5kV 3

UTSX 1412 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

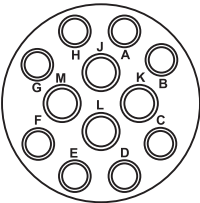
Souriau UTSX series

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



Connector part number

UTSX 14E12/14D12



12 contacts 5A
250V per UL1977
with AWG20 wire

12 contacts 10A
250V per UL1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 137	Square flange receptacle	Without (Fig. 1)	UTSX014E12P	UTSX014E12S
	Plug	Without (Fig. 2)	UTSX614E12P	UTSX614E12S
	Plug	Cable gland (Fig. 3)	UTSX6JC14E12P	UTSX6JC14E12S
	Jam nut receptacle	Without (Fig. 4)	UTSX714E12P	UTSX714E12S
PCB contacts loaded see Page 137	Square flange receptacle	Without (Fig. 2)	UTSX014D12P	UTSX014D12S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX714D12P	UTSX714D12S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX714D12P32	UTSX714D12S32

For discrimination/keying methods see **Page 224**

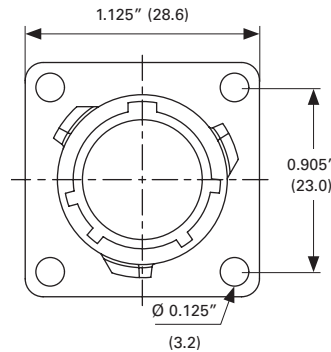
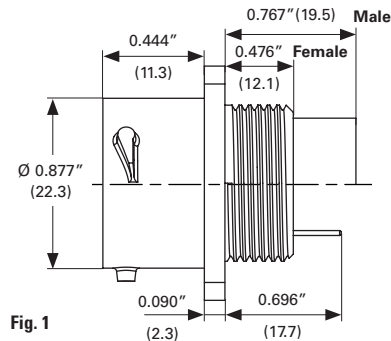
Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

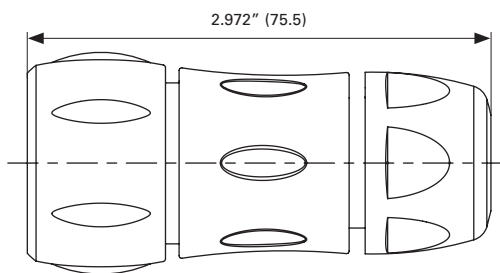
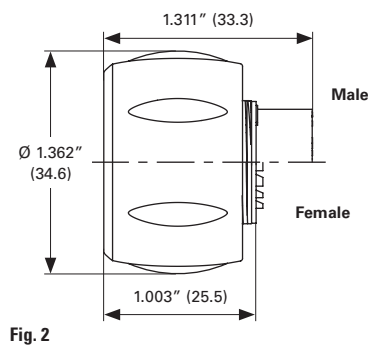
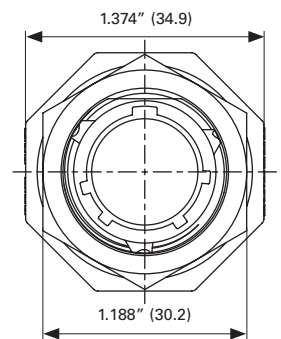
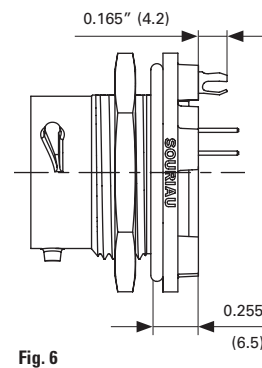
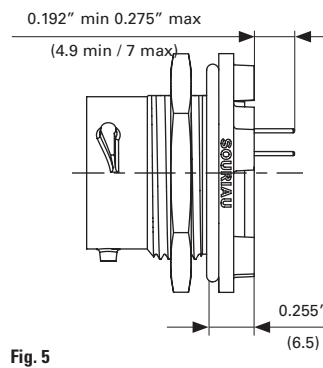
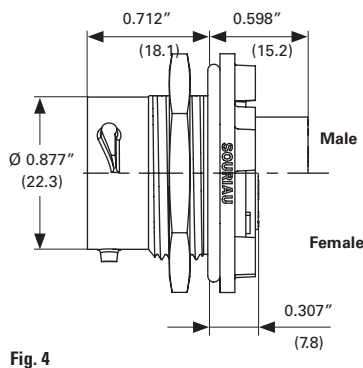


Fig. 3

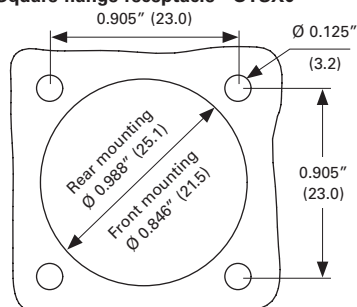
Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

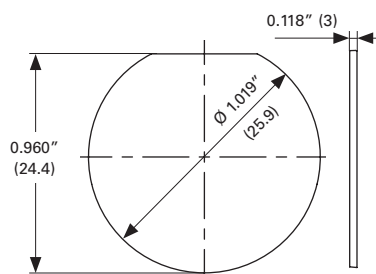


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Contacts

Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
				inch ²	mm ²	inch	mm
#16	Handsolder Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 - 14	0.032"-0.081"	0.823 - 2.08	0.196"	5
	PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—	—
#20	Handsolder Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	20 - 18	0.012"-0.029"	0.32 - 0.75	0.149"	3.8
	PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—	—

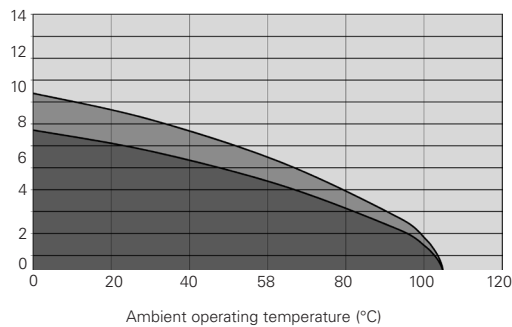
(1) For dimensions see **Pages 205**

Electrical characteristics

UL	CSA	IEC
5A 250V with AWG20 10A 250V with AWG16	5A 250V with AWG20 10A 250V with AWG16	4A 50V 1.5kV 3

UTSX 14E12/14D12 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

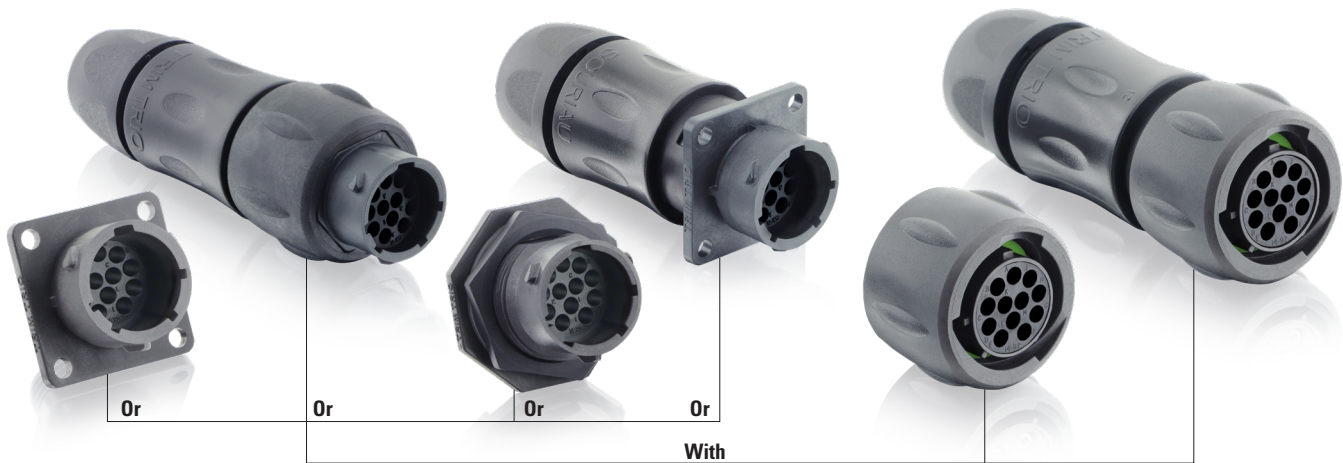
Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

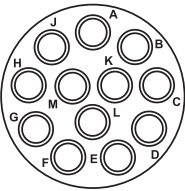
Souriau UTSX series

1492 (Shell size 14, 12x#16)



Connector part number

UTSX 1492



12 contacts
10/500V per
UL 1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 142	Square flange receptacle	Without (Fig. 1)	UTSX01492P	UTSX01492S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1492P	UTSX0JC1492S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1492P	UTSX1JC1492S
	Plug	Without (Fig. 4)	UTSX61492P	UTSX61492S
	Plug	Cable gland (Fig. 5)	UTSX6JC1492P	UTSX6JC1492S
	Jam nut receptacle	Without (Fig. 6)	UTSX71492P	UTSX71492S
PCB contacts supplied separately see Page 142	Square flange receptacle	Without (Fig. 1)	UTSX01492P	UTSX01492S
	Jam nut receptacle	Without (Fig. 6)	UTSX71492P	UTSX71492S

For discrimination/keying methods see **Page 224**

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

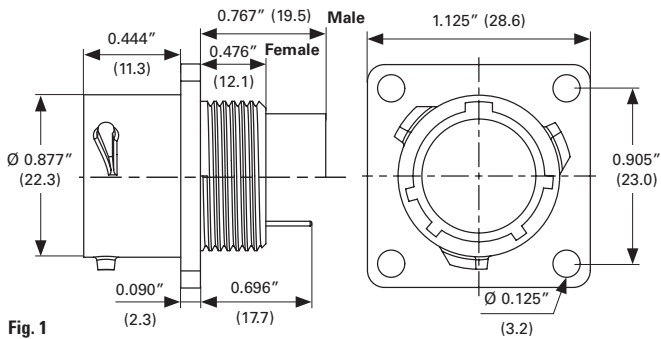


Fig. 1

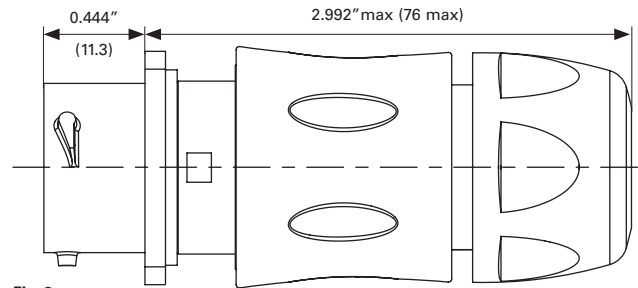


Fig. 2

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC

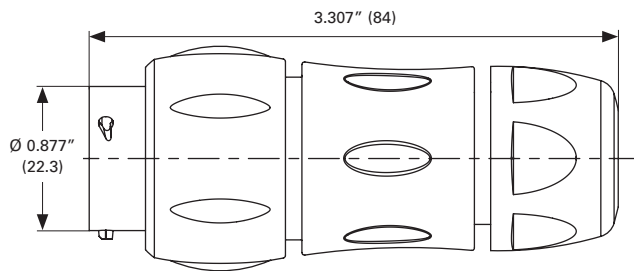


Fig. 3

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6 and UTSX6JC

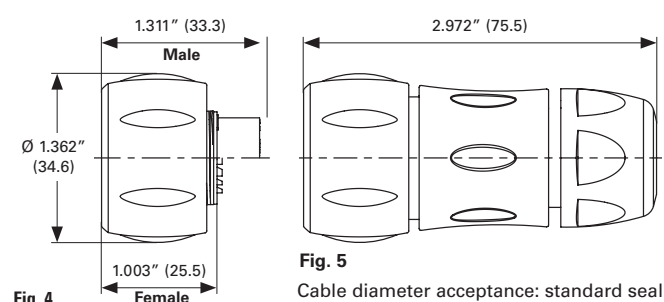


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

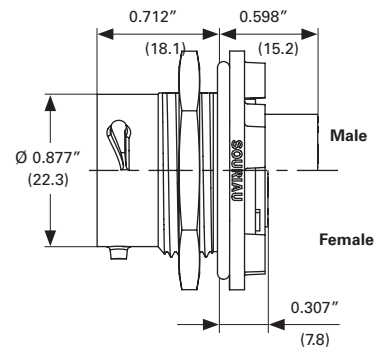


Fig. 6

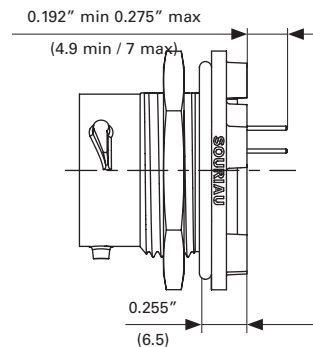
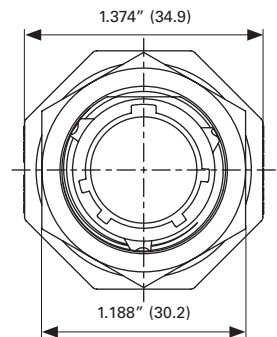
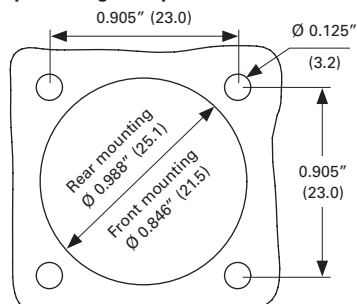


Fig. 7

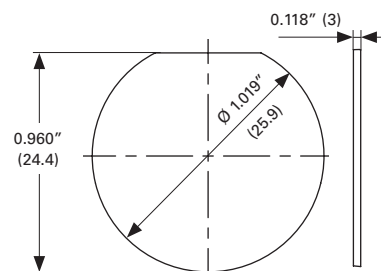


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1492 (Shell size 14, 12x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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 16ML1TK6 ⁽¹⁾	S16SCML11*

(1) Example of plating, for other plating options see [Page 199](#)

* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 211

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Souriau UTSX series

1492 (Shell size 14, 12x#16)

Contacts #16

		Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
Contact style	Contact type	AWG	inch²	mm²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		PCB	Machined ⁽³⁾	—			RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—
Coaxial	Cable multipiece	see Page 203			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—			RMPOF1000	RCPOF1000B	—	—	—	—
Handsoldier	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—	—	—

(1) Example of plating, for other plating see **Page 199**

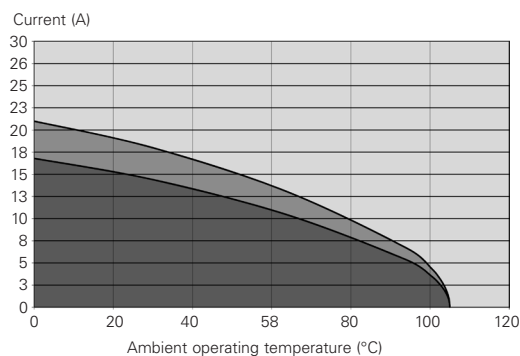
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire	7A 500V with AWG16 wire	10A 63V 1.5kV 3

UTSX 1412 derating curves

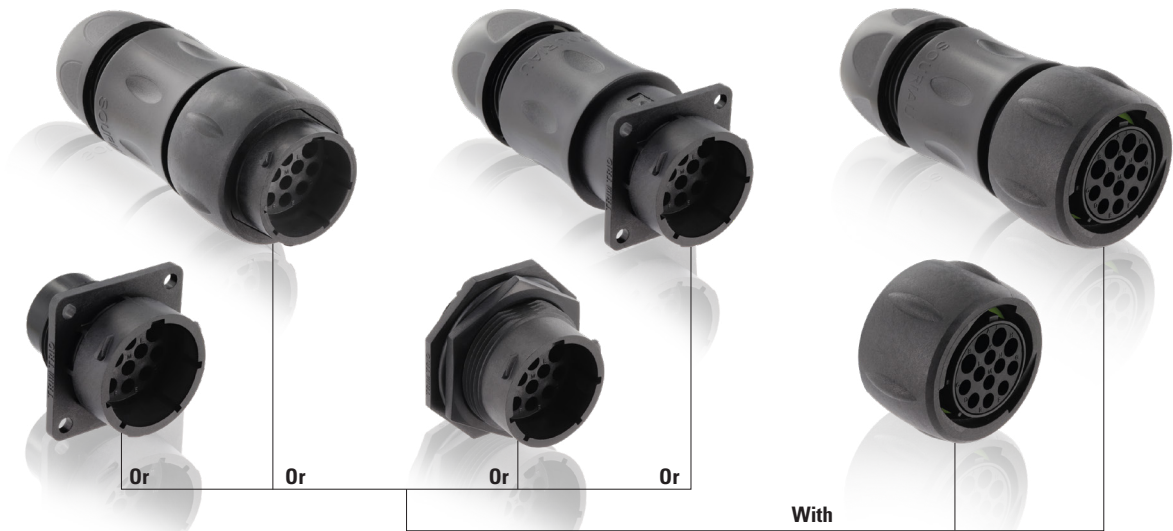


- Current use
- Limited use
- Not recommended use

Test conditions

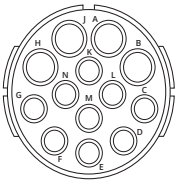
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 1613



13 contacts
23A/600V per UL 1977
with AWG12 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 147	Square flange receptacle	Without (Fig. 1)	UTSX01613P	UTSX01613S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1613P	UTSX0JC1613S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1613P	UTSX1JC1613S
	Plug	Without (Fig. 4)	UTSX61613P	UTSX61613S
	Plug	Cable gland (Fig. 5)	UTSX6JC1613P	UTSX6JC1613S
	Jam nut receptacle	Without (Fig. 6)	UTSX71613P	UTSX71613S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX71613P32	UTSX71613S32
PCB contacts supplied separately see Page 147	Square flange receptacle	Without (Fig. 1)	UTSX01613P	UTSX01613S
	Jam nut receptacle	Without (Fig. 7)	UTSX71613P	UTSX71613S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1613 (Shell size 16, 4 x #12, 9x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

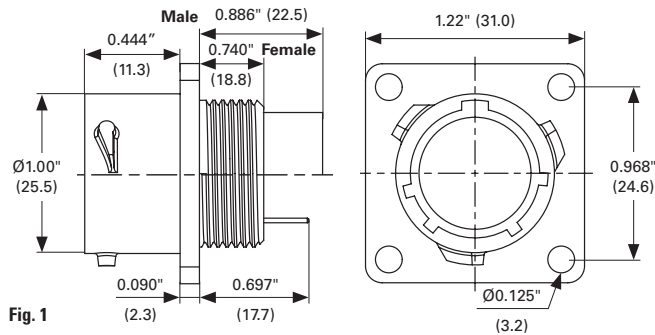


Fig. 1

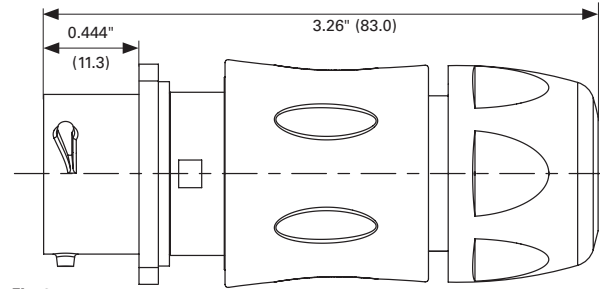


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Free hanging - UTSX1JC and UTSXGJC

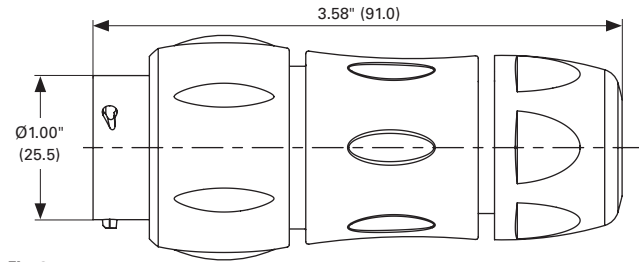


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Plug - UTSX6 and UTSX6JC

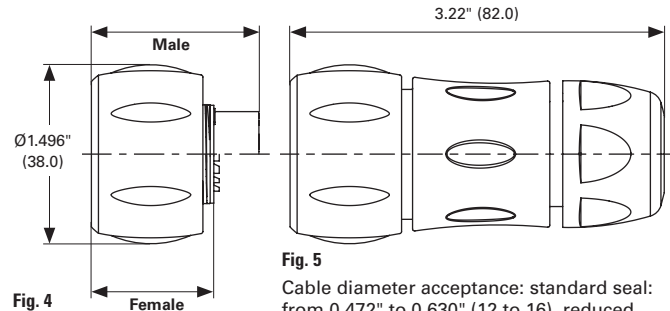


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12).

Jam nut receptacle UTSX7

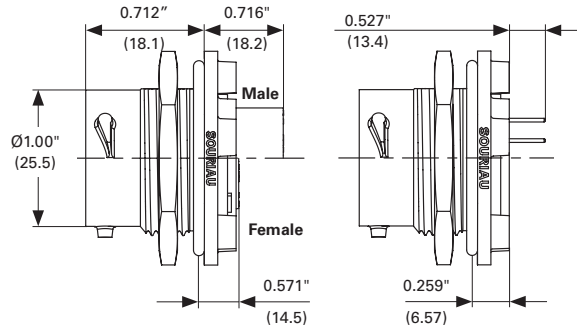


Fig. 6

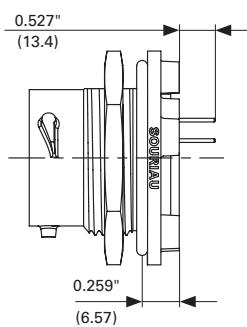


Fig. 7

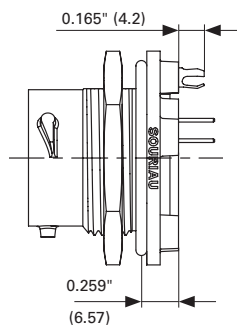
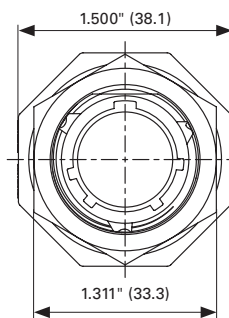
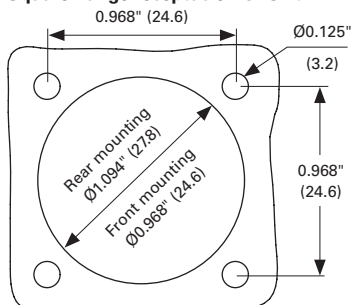


Fig. 8

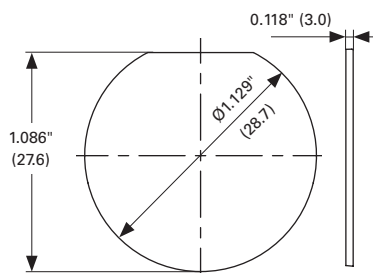


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



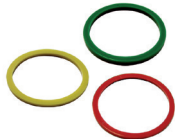
Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

Souriau UTSX series

1613 (Shell size 16, 4 x #12, 9x#16)

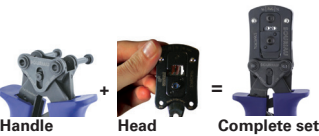
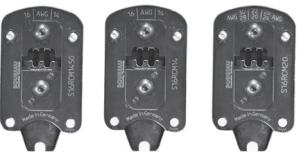
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see Page 198
* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool #16



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Contacts #12

Contact style	Contact type	Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	20	0.020"	0.52	82911457NA	82911456A	0.034"	0.87	0.192"	4.90
		20	0.020"	0.52	82911459NA	82911458A	0.044"	1.12	0.192"	4.90
		18	0.031"	0.80	82911461NA	82911460A	0.055"	1.42	0.192"	4.90
		16	0.059"	1.48	82911463NA	82911462A	0.067"	1.72	0.192"	4.90
		14	0.098"	2.48	82911465NA	82911464A	0.087"	2.20	0.192"	4.90
		12	0.157"	4.00	82911467NA	82911466A	0.111"	2.82	0.192"	4.90

Contacts #16

Contact style	Contact type	Cable acceptance	Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
	PCB	Machined ⁽³⁾	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Page 203	—	—	RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203	—	—	RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—	RMP0F1000	RCPOF1000B	—	—	—	—
Handsolder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—	—	—

(1) Example of plating, for other plating see Page 199

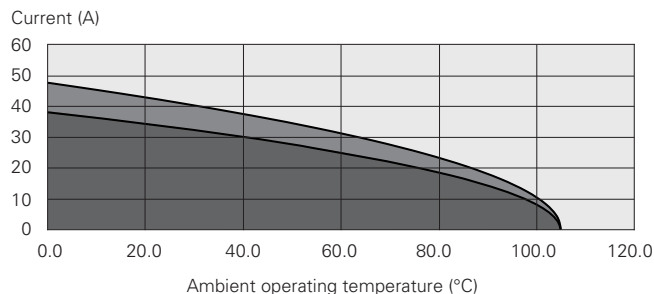
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12 wire	23A 600V with AWG12 wire	23A 160V 2.5kV 3

UTSX 1613 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.

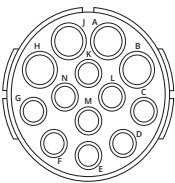
Souriau UTSX series

1813 (Shell size 18, 5x#12, 8x#16)



Connector part number

UTSX 1813



13 contacts
23A/600V per UL 1977
with AWG12 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 152	Square flange receptacle	Without (Fig. 1)	UTSX01813P	UTSX01813S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1813P	UTSX0JC1813S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1813P	UTSX1JC1813S
	Plug	Without (Fig. 4)	UTSX61813P	UTSX61813S
	Plug	Cable gland (Fig. 5)	UTSX6JC1813P	UTSX6JC1813S
	Jam nut receptacle	Without (Fig. 6)	UTSX71813P	UTSX71813S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX71813P32	UTSX71813S32
PCB contacts supplied separately see Page 152	Square flange receptacle	Without (Fig. 1)	UTSX01813P	UTSX01813S
	Jam nut receptacle	Without (Fig. 7)	UTSX71813P	UTSX71813S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

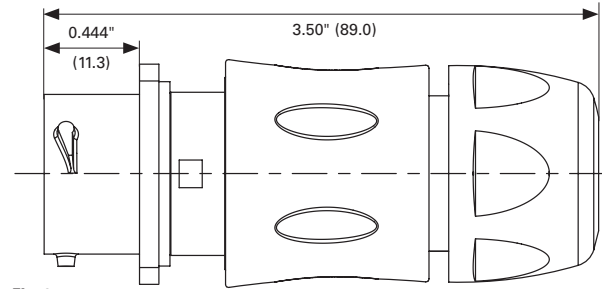
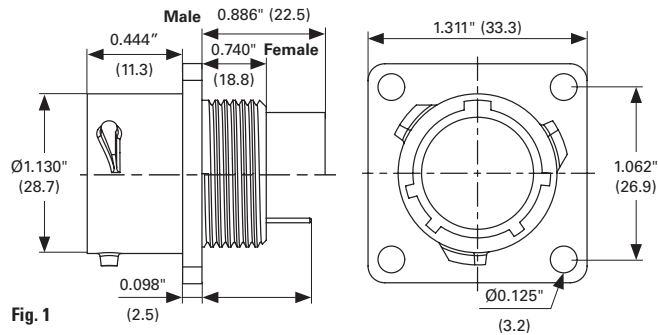


Fig. 2
Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Free hanging - UTSX1JC and UTSXGJC

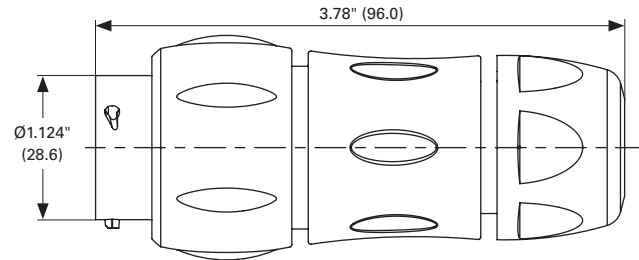


Fig. 3
Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Plug - UTSX6 and UTSX6JC

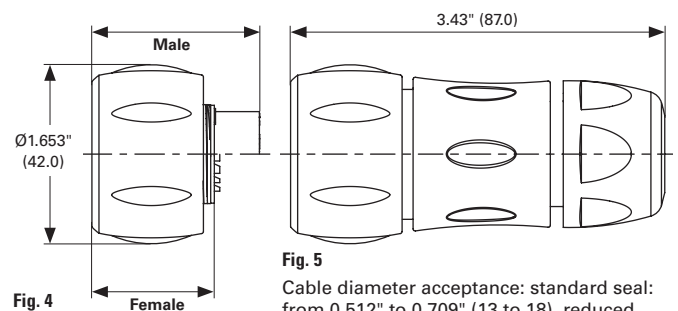
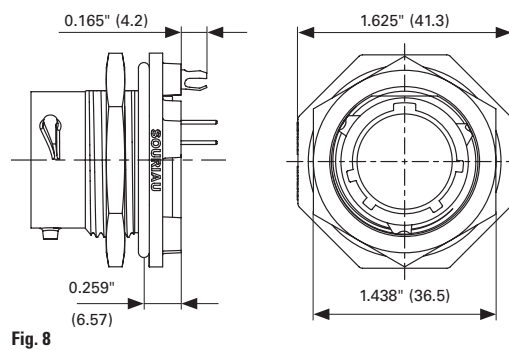
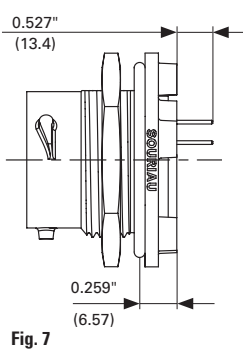
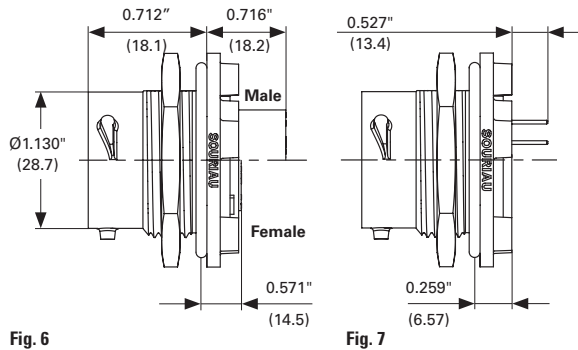


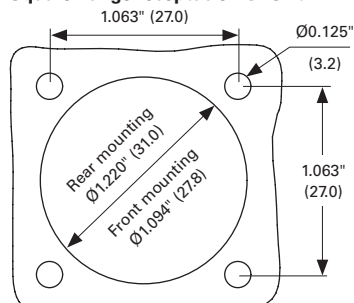
Fig. 5
Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15).

Jam nut receptacle UTSX7

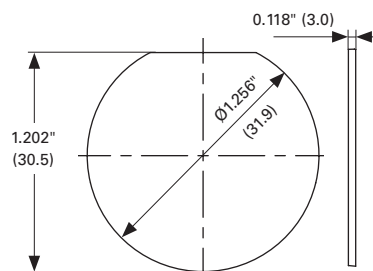


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1813 (Shell size 18, 5x#12, 8x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



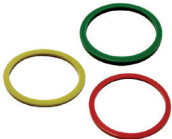
Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

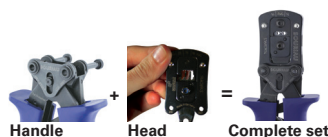
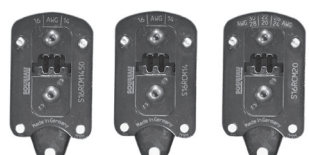
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see **Page 198**

* Heads to be used with handle PN: SHANDLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 0.094" (2.4)	M317	VGE10077A

Souriau UTSX series

1813 (Shell size 18, 5x#12, 8x#16)

Contacts #12

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm
Crimp contacts	Machined	20	0.020"	0.52	82911457NA	82911456A	0.034"	0.87
		20	0.020"	0.52	82911459NA	82911458A	0.044"	1.12
		18	0.031"	0.80	82911461NA	82911460A	0.055"	1.42
		16	0.059"	1.48	82911463NA	82911462A	0.067"	1.72
		14	0.098"	2.48	82911465NA	82911464A	0.087"	2.20
		12	0.157"	4.00	82911467NA	82911466A	0.111"	2.82

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—
Coaxial	Cable multipiece	see Page 203	—	—	RMDXK10D28	RCDXK1D28	—	—
	Cable monocrimp	see Page 203	—	—	RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece	see Page 203	—	—	RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—
	Twisted pair monocrimp	see Page 203	—	—	RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—
Hand solder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—

(1) Example of plating, for other plating see Page 199

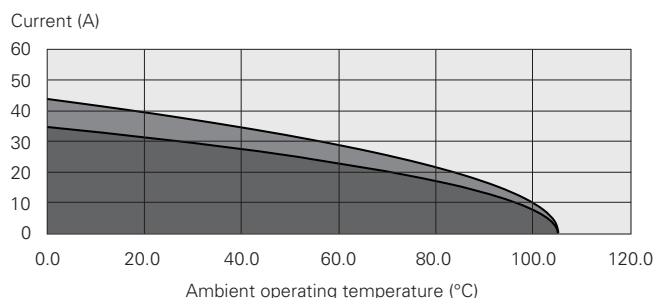
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
23A 600V with AWG12	23A 600V with AWG12	23A 160V 2.5kV 3

UTSX 1813 derating curves

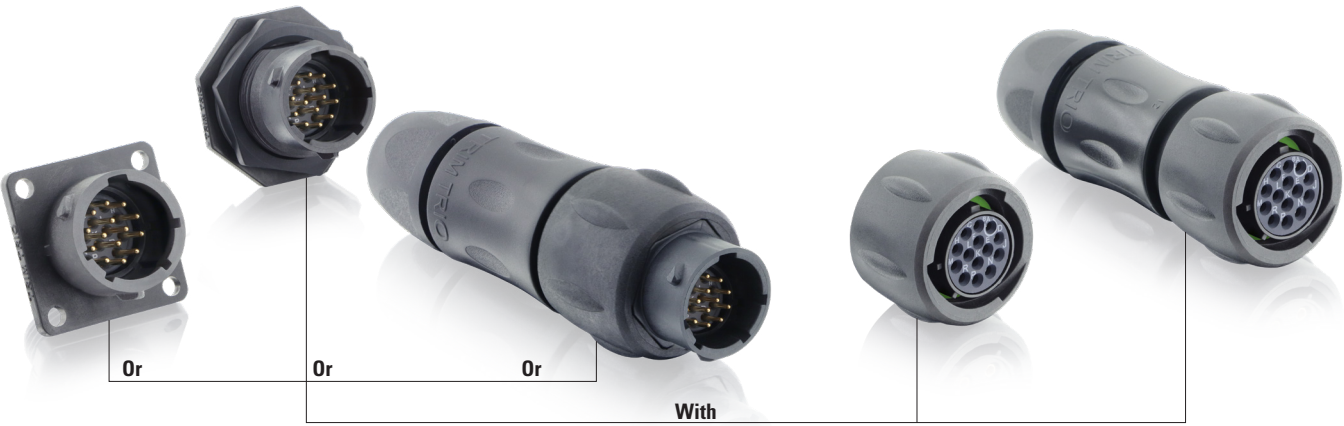


- Current use
- Limited use
- Not recommended use

Test conditions

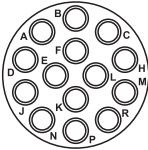
Contact used: machined contacts
Wires used: 12 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 12E14/12D14



14 contacts
4.5A/250V per
UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Hand solder electrical contacts loaded see Page 156	Square flange receptacle	Without (Fig. 1)	UTSX012E14P	UTSX012E14S
	Plug	Without (Fig. 2)	UTSX612E14P	UTSX612E14S
	Plug	Cable gland (Fig. 3)	UTSX6JC12E14P	UTSX6JC12E14S
	Jam nut receptacle	Without (Fig. 4)	UTSX712E14P	UTSX712E14S
PCB contacts loaded see Page 156	Square flange receptacle	Without (Fig. 1)	UTSX012D14P	UTSX012D14S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX712D14P	UTSX712D14S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX712D14P32	UTSX712D14S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

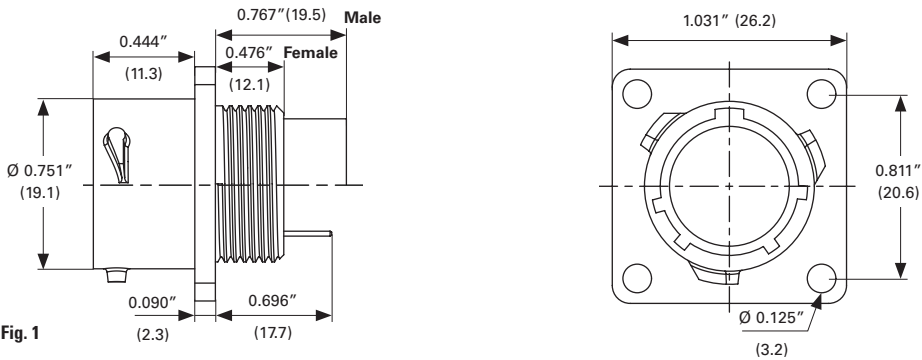
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

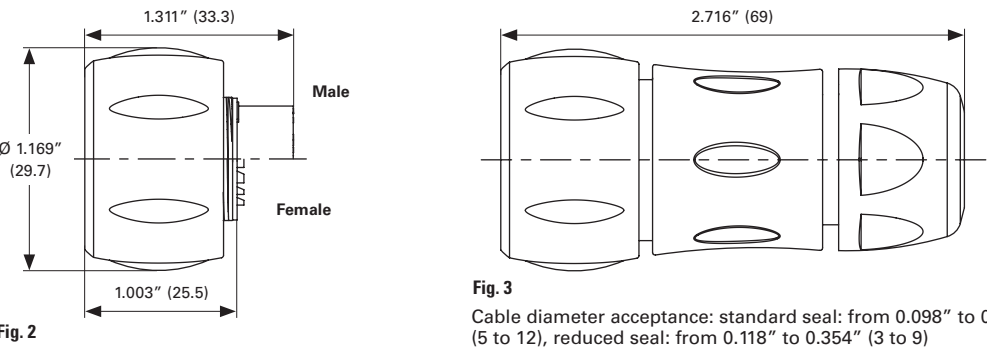
12E14/12D14 (Shell size 12, 14x20)

Dimensions (For mated connector lengths see Page 216)

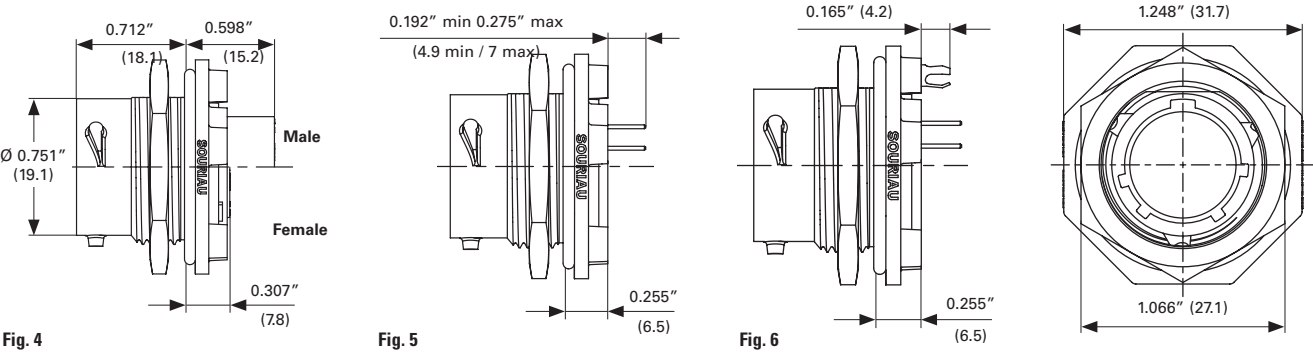
Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

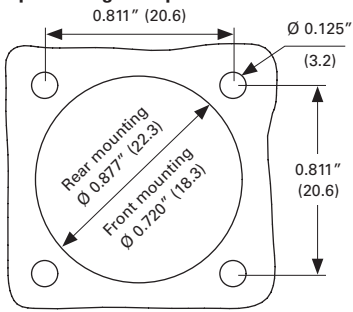


Jam nut receptacle UTSX7

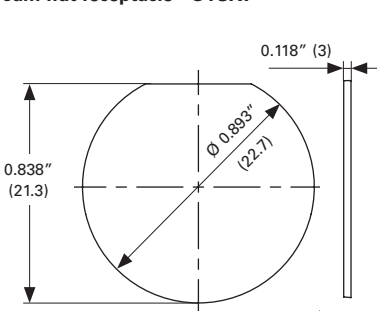


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS12DCG
IP68 - Metal terminal	UTS12DCGR

Plug sealing cap



Description	Part number
IP68	UTX612DCG

Plastic protective cap



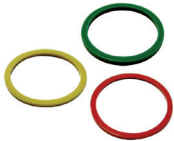
Part number receptacle cap	Part number plug cap
85005587A	85005596

Gasket



Part number
UTFD13B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS712CCRG	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS12DCGE

Souriau UTSX series

12E14/12D14 (Shell size 12, 14x20)

Contacts #20

Contact type	Plating	Cable acceptance	Cable acceptance		Wire stripping length	
		(AWG)	inch ²	mm ²	inch	mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20-18	0.020"-0.031"	0.32-0.80	0.149"	3.8
PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—

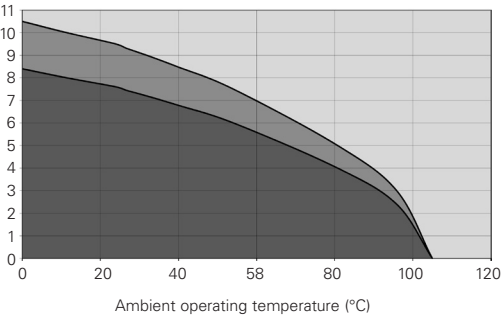
(1) For dimensions see **Pages 206**

Electrical characteristics

UL	CSA	IEC
4.5A 250V with AWG20 wire	4.5A 250V with AWG20 wire	5A 32V 1.5kV 3

UTSX 12E4/12D4 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX

15 contacts
12A 600V per UL1977
with AWG16 wire

5A 250V per UL1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Hand solder electrical contacts loaded see Page 160	Square flange receptacle	Without (Fig. 1)	UTSX014E15P	UTSX014E15S
	Plug	Without (Fig. 2)	UTSX614E15P	UTSX614E15S
	Plug	Cable gland (Fig. 3)	UTSX6JC14E15P	UTSX6JC14E15S
	Jam nut receptacle	Without (Fig. 4)	UTSX714E15P	UTSX714E15S
PCB contacts loaded see Page 160	Square flange receptacle	Without (Fig. 2)	UTSX014D15P	UTSX014D15S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX714D15P	UTSX714D15S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX714D15P32	UTSX714D15S32

For discrimination/keying methods see **Page 224** Sealed unmated

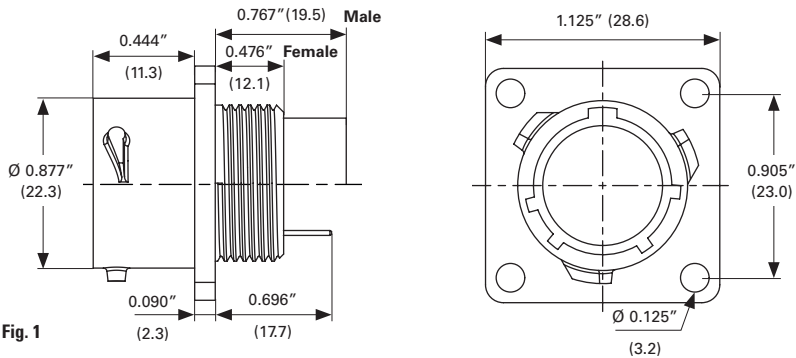
Overmolded cable assembly part numbers
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

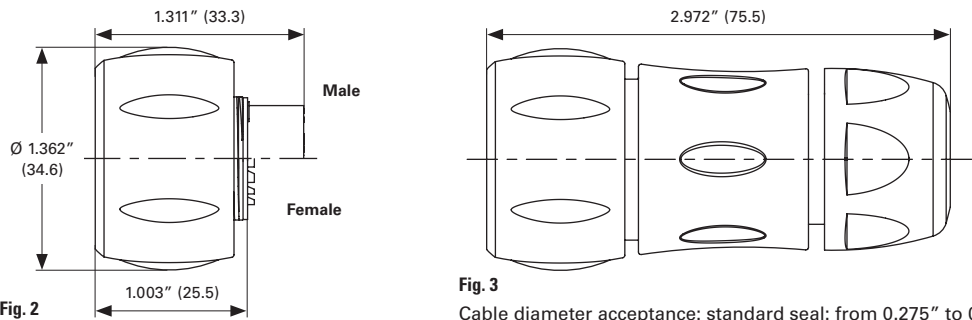
14E15/14D15 (Shell size 14, 14x#20, 1#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0

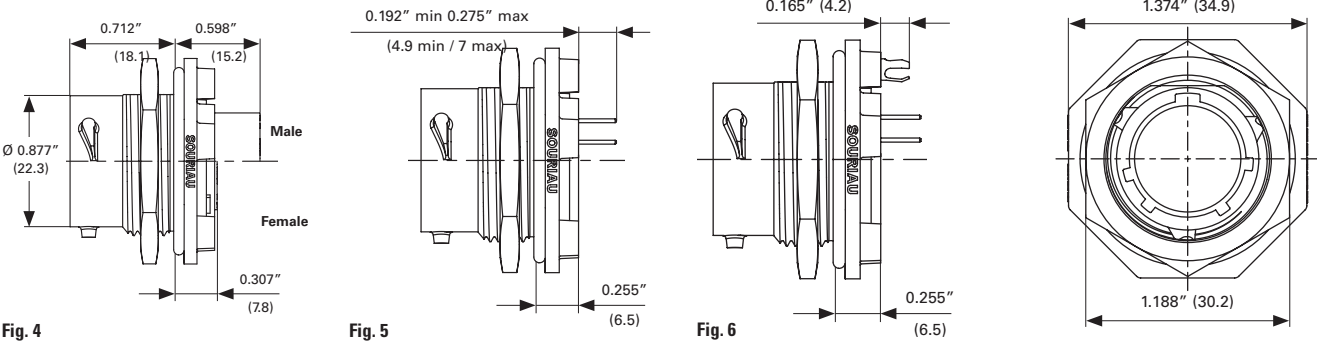


Plug - UTSX6 and UTSX6JC



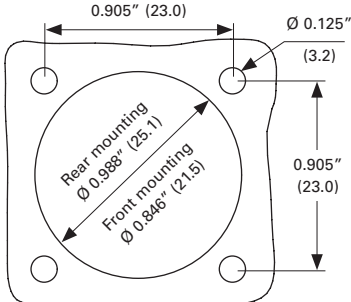
Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

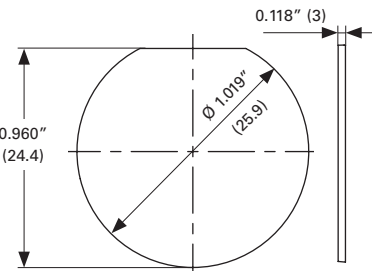


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



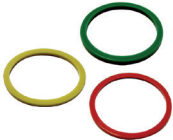
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Souriau UTSX series

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

Contacts

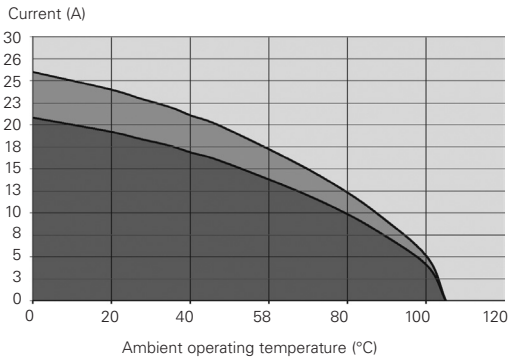
Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
				inch ²	mm ²	inch	mm
#16	Handsold Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18 - 14	0.032"-0.081"	0.823 - 2.08	0.196"	5
	PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—
#20	Handsold Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 - 18	0.012"-0.029"	0.32 - 0.75	0.149"	3.8
	PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—

(1) For dimensions see **Pages 206**

Electrical characteristics

UL	CSA	IEC
12A 600V with AWG16 5A 250V with AWG20	12A 600v with AWG16 5A 250V with AWG20	4A 50V 1.5kV 3

UTSX 14E15/14D15 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

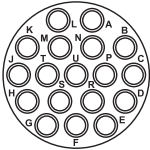
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 14E18/14D18



18 contacts
4A/250V per
UL 1977 with
AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 164	Square flange receptacle	Without (Fig. 1)	UTSX014E18P	UTSX014E18S
	Plug	Without (Fig. 2)	UTSX614E18P	UTSX614E18S
	Plug	Cable gland (Fig. 3)	UTSX6JC14E18P	UTSX6JC14E18S
	Jam nut receptacle	Without (Fig. 4)	UTSX714E18P	UTSX714E18S
PCB contacts loaded see Page 164	Square flange receptacle	Without (Fig. 2)	UTSX014D18P	UTSX014D18S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTSX714D18P	UTSX714D18S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTSX714D18P32	UTSX714D18S32

For discrimination/keying methods see **Page 224**

Sealed unmatd

Overmolded cable assembly part numbers

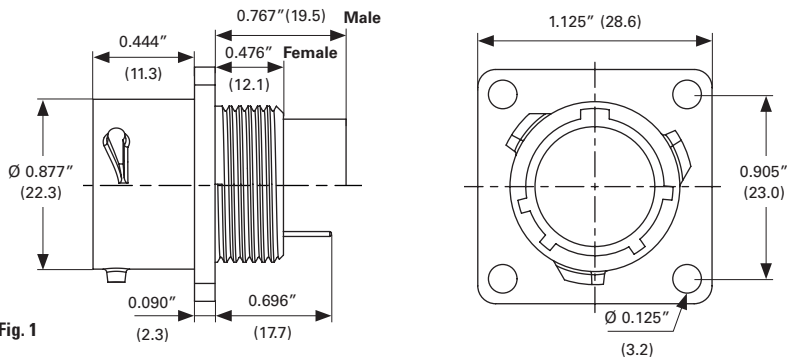
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

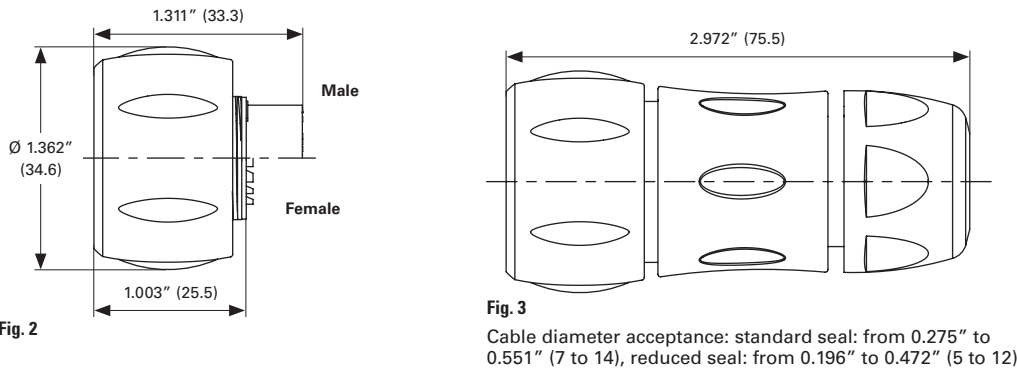
14E18/14D18 (Shell size 14, 18x#20)

Dimensions (For mated connector lengths see Page 216)

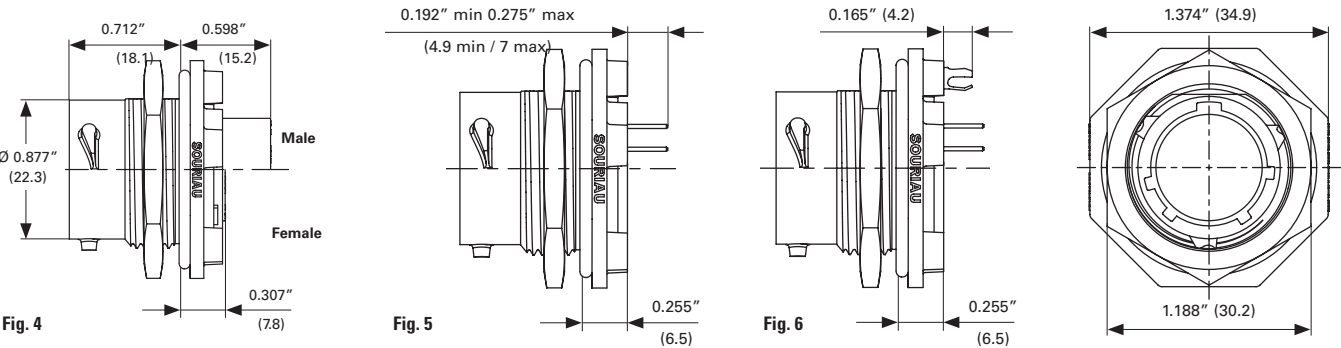
Square flange receptacle - UTSX0



Plug - UTSX6 and UTSX6JC

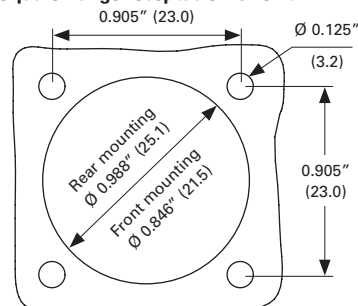


Jam nut receptacle UTSX7

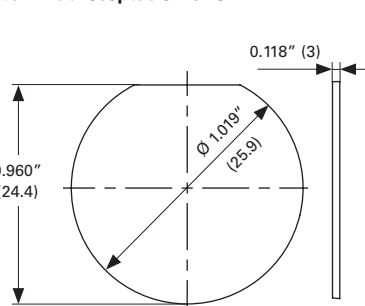


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Souriau UTSX series

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

Contacts #20

Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
			inch ²	mm ²	inch	mm
Handsolder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20-18	0.020"-0.031"	0.32-0.80	0.149"	3.8
PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—

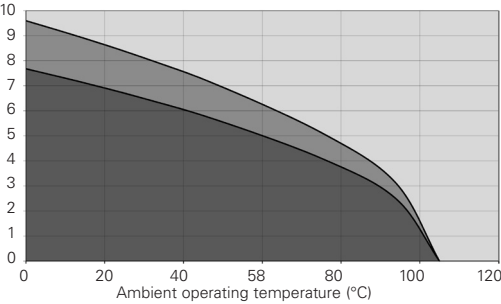
(1) For dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
4A 250V with AWG20 wire	4A 250V with AWG20 wire	5A 50V 1.5kV 3

UTSX 14E18/14D18 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

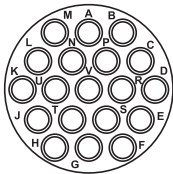
Derating curves based on continuous current application.



Connector part number

UTSX

1419



19 contacts + ground
4.5A/250V per UL 1977
with AWG20 wire

14E19/14D19

19 contacts + ground
4A/250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 169	Square flange receptacle	Without (Fig. 1)	UTSX01419P	UTSX01419S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1419P	UTSX0JC1419S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1419P	UTSX1JC1419S
	Plug	Without (Fig. 4)	UTSX61419P	UTSX61419S
	Plug	Cable gland (Fig. 5)	UTSX6JC1419P	UTSX6JC1419S
	Jam nut receptacle	Without (Fig. 6)	UTSX71419P	UTSX71419S
PCB contacts supplied separately see Page 169	Square flange receptacle	Without (Fig. 1)	UTSX01419P	UTSX01419S
Handsolder electrical contacts loaded see Page 169	Square flange receptacle	Without (Fig. 1)	UTSX014E19P	UTSX014E19S
	Plug	Without (Fig. 4)	UTSX614E19P	UTSX614E19S
	Plug	Cable gland (Fig. 5)	UTSX6JC14E19P	UTSX6JC14E19S
	Jam nut receptacle	Without (Fig. 6)	UTSX714E19P	UTSX714E19S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTSX014D19P	UTSX014D19S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX714D19P	UTSX714D19S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX714D19P32	UTSX714D19S32

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

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

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

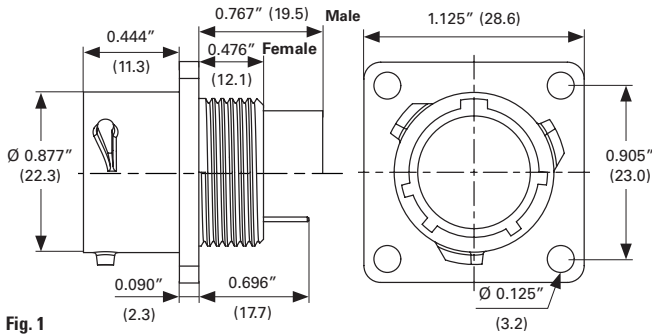


Fig. 1

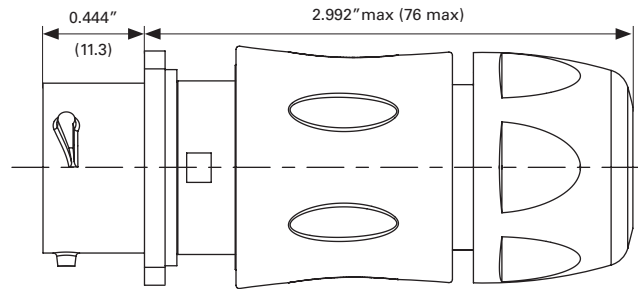


Fig. 2

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Free hanging - UTSX1JC

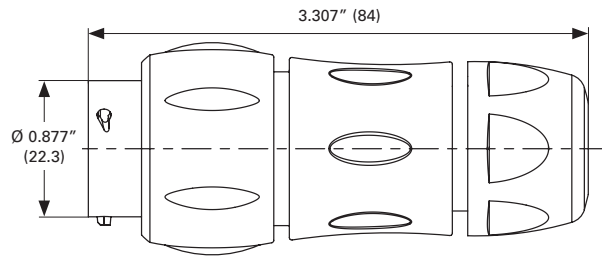


Fig. 3

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Plug - UTSX6 and UTSX6JC

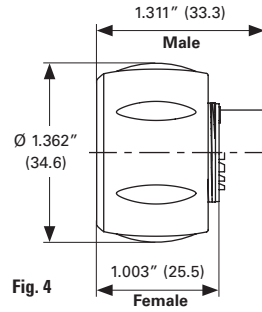


Fig. 4

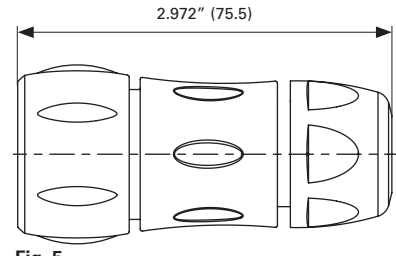


Fig. 5

Cable diameter acceptance: standard seal: from 0.275" to 0.551" (7 to 14), reduced seal: from 0.196" to 0.472" (5 to 12)

Jam nut receptacle UTSX7

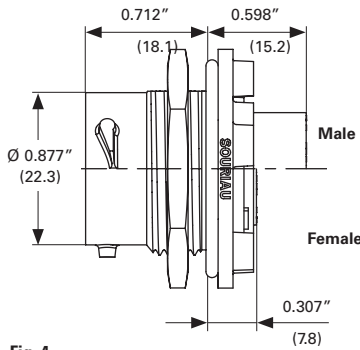


Fig. 4

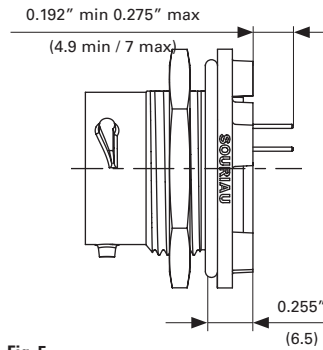


Fig. 5

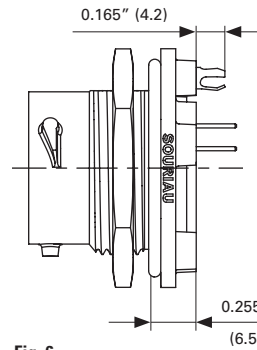
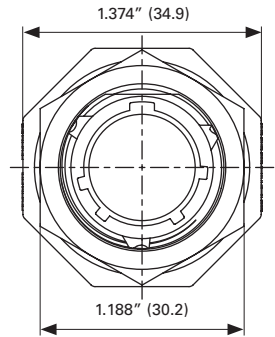
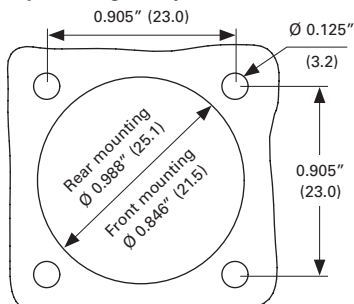


Fig. 6

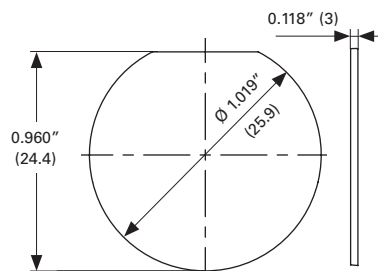


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS14DCG
IP68 - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68	UTX614DCG

Plastic protective cap



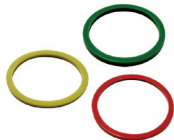
Part number receptacle cap	Part number plug cap
85005588A	85005597

Gasket



Part number
UTFD14B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS714CCRG	UTS614CCRG
Y for Yellow	UTS714CCRY	UTS614CCRY
R for Red	UTS714CCRR	UTS614CCRR

Souriau UTSX series

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

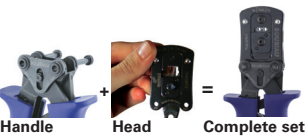
Tooling

#20 stamped or machined contacts



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts	RM/RC 24W3K ⁽¹⁾	S20RCM*
#20	RM/RC 20W3K ⁽¹⁾	S20RCM*
Ø 0.039" (1)	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see **Page 198**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20	RX20D44
Ø 0.039" (1)	

Contacts #20

Contact style	Contact type	Cable acceptance			Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note ⁽¹⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6 ⁽¹⁾	SC24W3TK6 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	SM24W3S26 ⁽¹⁾	SC24W3S25 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6 ⁽¹⁾	SC20W3TK6 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	SM20W3S26 ⁽¹⁾	SC20W3S25 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
PCB	Machined ⁽²⁾	—	—	—	RMW5016K	RCW5016K	—	—	—	—

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

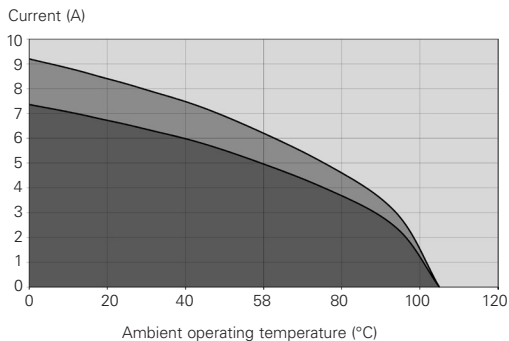
(2) for dimensions see **Page 206**

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length	
				inch	mm
Hand solder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	0.149"	3.8

Electrical characteristics

UL	CSA	IEC
UTSX 1419 4.5A 250V with AWG20 wire	3A 250V with AWG20 wire	5A 32V 1.5kV 3
UTSX 14E19/14D19 4A 250V with AWG20 wire	4A 250V with AWG20 wire	5A 32V 1.5kV 3

UTSX 1419 - 14E19/14D19 derating curves



- Current use
- Limited use
- Not recommended use

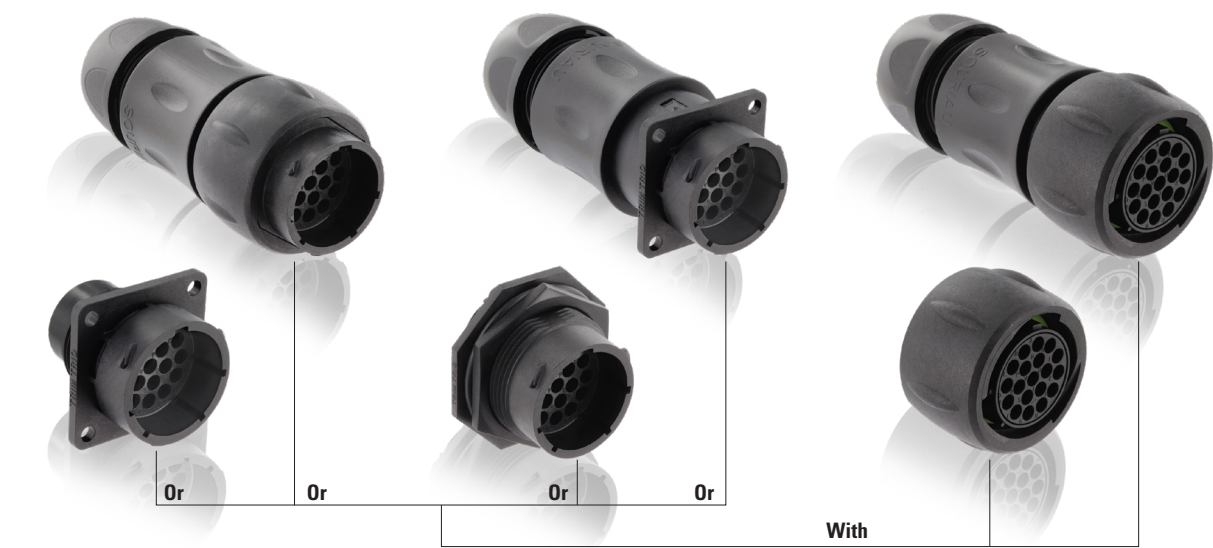
Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

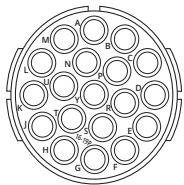
Souriau UTSX series

1619 (Shell size 16, 19x#16)



Connector part number

UTSX 1619



19 contacts
9A 250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 174	Square flange receptacle	Without (Fig. 1)	UTSX01619P	UTSX01619S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1619P	UTSX0JC1619S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1619P	UTSX1JC1619S
	Plug	Without (Fig. 4)	UTSX61619P	UTSX61619S
	Plug	Cable gland (Fig. 5)	UTSX6JC1619P	UTSX6JC1619S
	Jam nut receptacle	Without (Fig. 6)	UTSX71619P	UTSX71619S
PCB contacts supplied separately see Page 174	Square flange receptacle	Without (Fig. 1)	UTSX01619P	UTSX01619S
	Jam nut receptacle	Without (Fig. 7)	UTSX71619P	UTSX71619S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX71619P32	UTSX71619S32

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

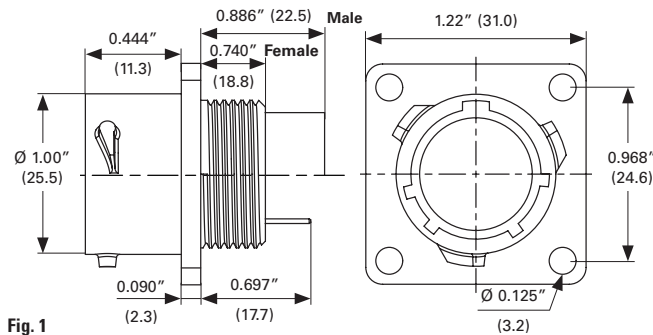


Fig. 1

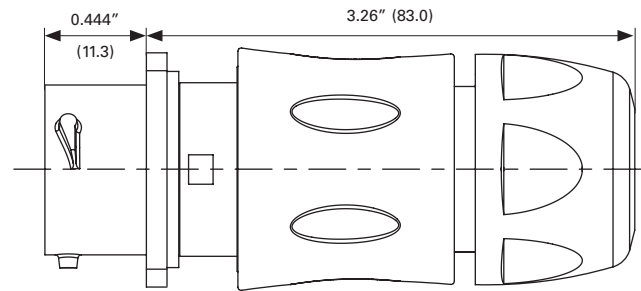


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Free hanging - UTSX1JC and UTSXGJC

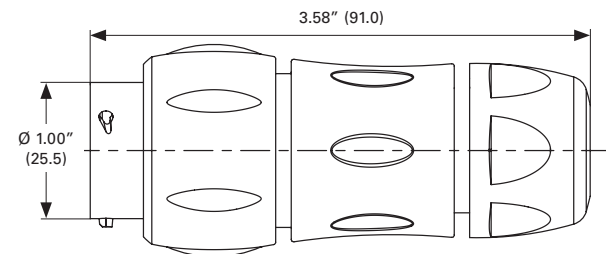


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Plug - UTSX6 and UTSX6JC

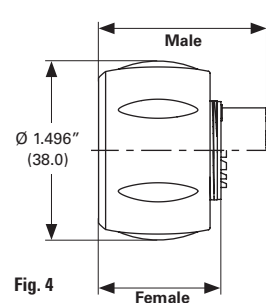


Fig. 4

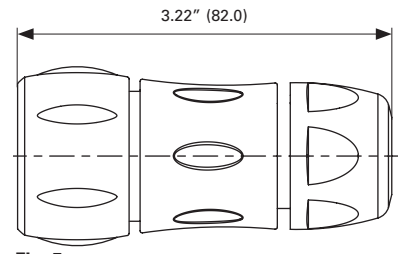


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Jam nut receptacle UTSX7

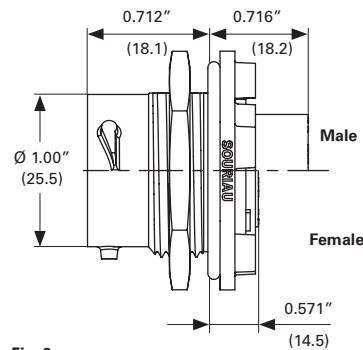


Fig. 6

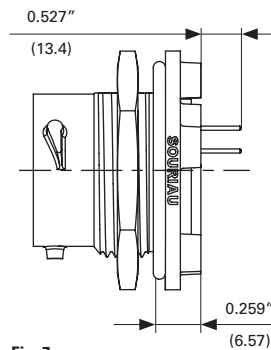


Fig. 7

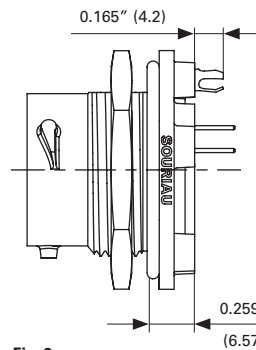
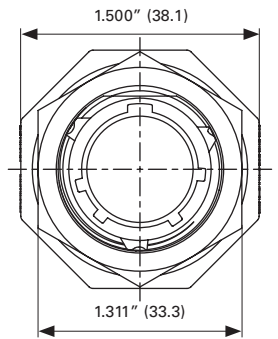
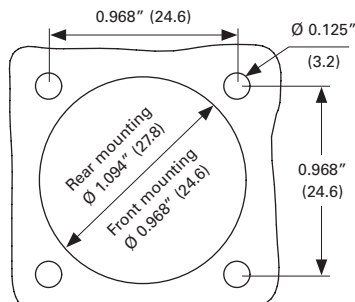


Fig. 8

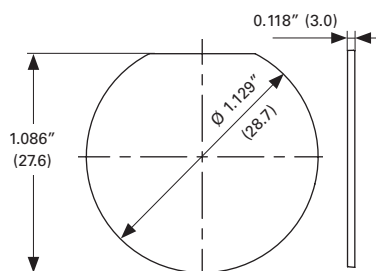


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1619 (Shell size 16, 19x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



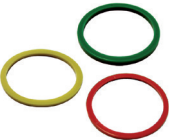
Part number recep- tacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

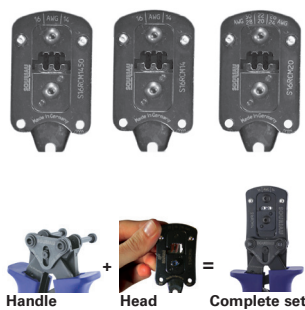
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see [Page 199](#)
 * Heads to be used with handle PN: SHANGLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool #16

Fig. 1



Fig. 2



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Souriau UTSX series

1619 (Shell size 16, 19x#16)

Contacts #16

Contact style	Contact type	Cable acceptance		Cable acceptance		Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²		Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08		RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55	0.039"	1.00
		26-24	0.005"-0.009"	0.13-0.25		RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52		RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15	0.070"	1.80
		22-20	0.012"-0.020"	0.32-0.52		RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15	0.086"	2.20
		20-16	0.020"-0.059"	0.52-1.48		RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80	0.125"	3.20
		16-14	0.059"-0.098"	1.48-2.48		RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30	0.125"	3.20
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25		SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.035"-0.062"	0.90-1.58
		22-20	0.012"-0.020"	0.32-0.52		SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	0.047"-0.082"	1.20-2.10
		18-16	0.031"-0.059"	0.80-1.48		SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
		18-16	0.031"-0.059"	0.80-1.48		SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	0.118"	3.00
		14	0.098"	2.48		SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	0.125"	3.20
PCB	Machined ⁽³⁾	—	—	—		RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Page 203				RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Page 203				RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Page 203				RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Page 203				RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—	—	—		RMPOF1000	RCPOF1000B	—	—	—	—
Handsoldier	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—	—	—	—

(1) Example of plating, for other plating see **Page 199**

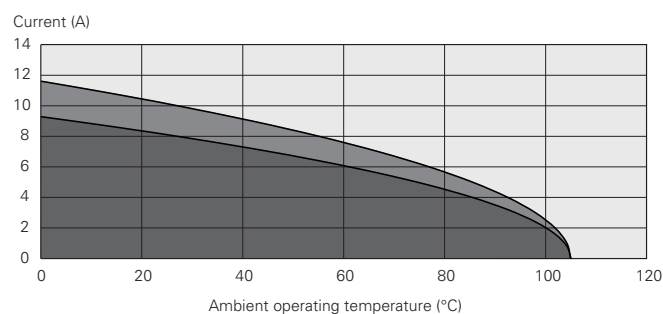
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see **Page 206**

Electrical characteristics

UL	CSA	IEC
9A 250V with AWG16 wire	5A 250V with AWG16 wire	8A 32V 2.0kV 3

UTSX 1619 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

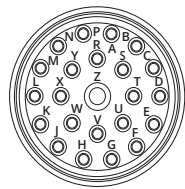
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 16E23 / 16D23



23 contacts
7.5A/250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 178	Square flange receptacle	Without (Fig. 1)	UTSX016E23P	UTSX016E23S
	Plug	Without (Fig. 4)	UTSX616E23P	UTSX616E23S
	Plug	Cable gland (Fig. 5)	UTSX6JC16E23P	UTSX6JC16E23S
	Jam nut receptacle	Without (Fig. 6)	UTSX716E23P	UTSX716E23S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX716E23P32	UTSX716E23S32
PCB contacts loaded see Page 178	Square flange receptacle	Without (Fig. 3)	UTSX016D23P	UTSX016D23S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX716D23P	UTSX716D23S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX716D23P32	UTSX716D23S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

16E23/16D23 (Shell size 16, 22x#20, 1x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

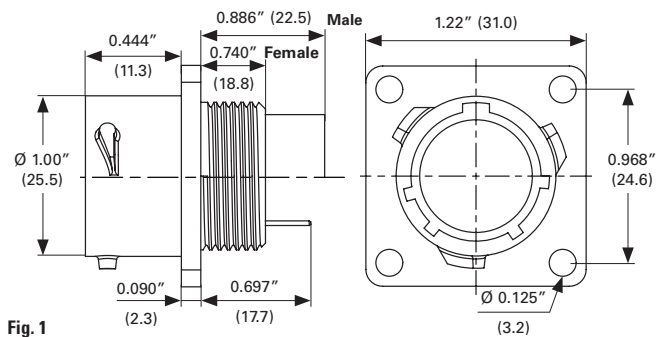


Fig. 1

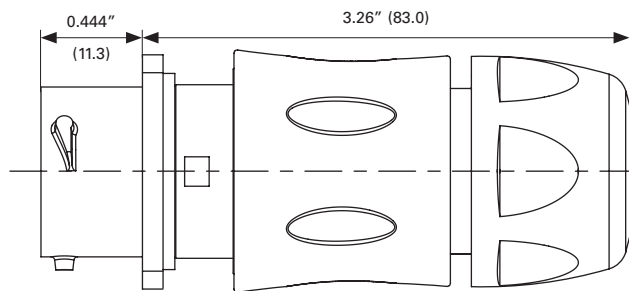


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16),
reduced seal: from 0.354" to 0.472" (9 to 12)

Free hanging - UTSX1JC and UTSXGJC

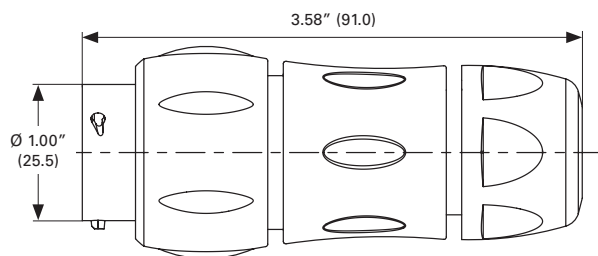


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630"
(12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Plug - UTSX6 and UTSX6JC

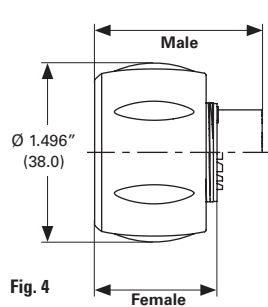


Fig. 4

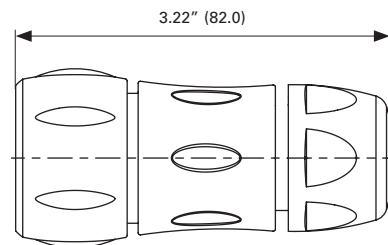


Fig. 5

Cable diameter acceptance: standard seal:
from 0.472" to 0.630" (12 to 16), reduced
seal: from 0.354" to 0.472" (9 to 12)

Jam nut receptacle UTSX7

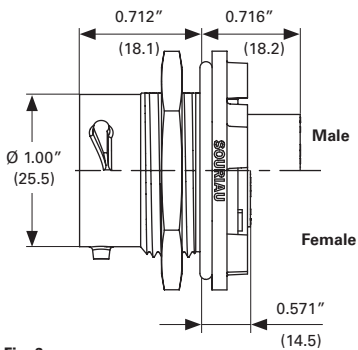


Fig. 6

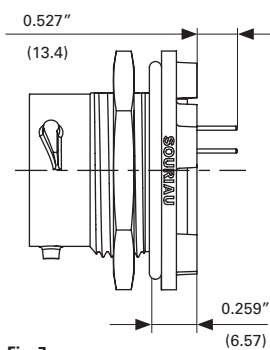


Fig. 7

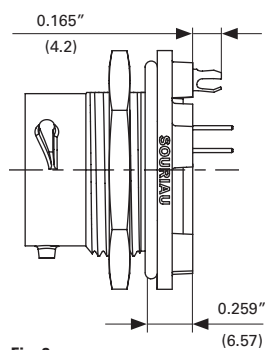
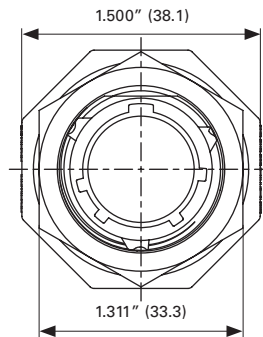
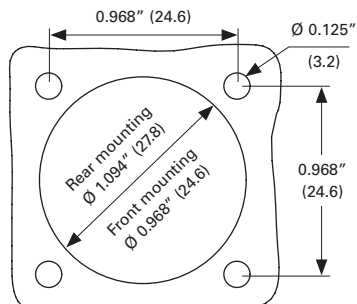


Fig. 8

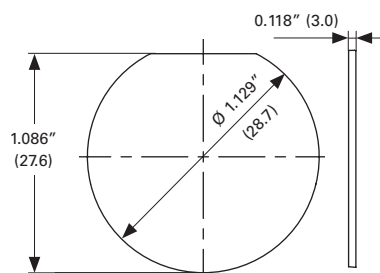


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

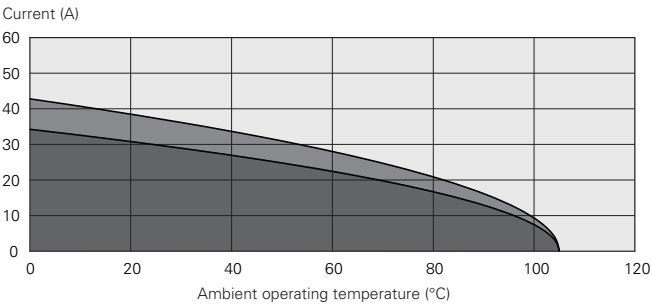
Souriau UTSX series

16E23/16D23 (Shell size 16, 22x#20, 1x#16)

Electrical characteristics

UL	CSA	IEC
UTSX 16E23/16D23 7.5A 250V with AWG 16 wire 3.5A 250V with AWG 20 wire	7.5A 250V with AWG 16 wire 3.5A 250V with AWG 20 wire	13A 32V 2kV 3

UTSX 1623 - 16E23/16D23 derating curves

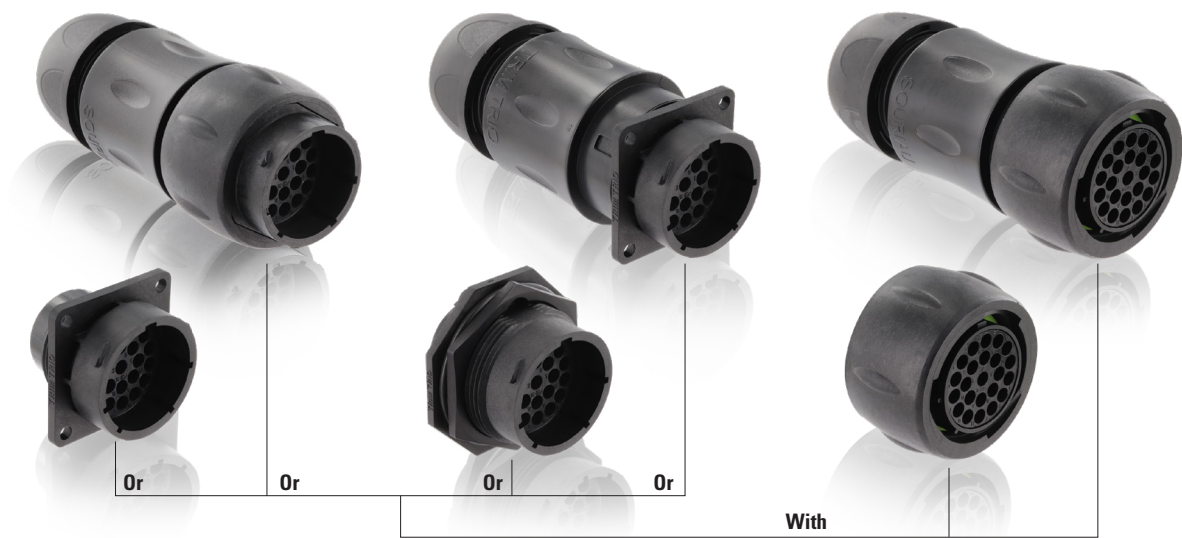


- Current use
- Limited use
- Not recommended use

Test conditions

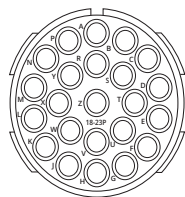
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 1823



23 contacts
9A/250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 183	Square flange receptacle	Without (Fig. 1)	UTSX01823P	UTSX01823S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1823P	UTSX0JC1823S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1823P	UTSX1JC1823S
	Plug	Without (Fig. 4)	UTSX61823P	UTSX61823S
	Plug	Cable gland (Fig. 5)	UTSX6JC1823P	UTSX6JC1823S
	Jam nut receptacle	Without (Fig. 6)	UTSX71823P	UTSX71823S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX71823P32	UTSX71823S32
PCB contacts supplied separately see Page 183	Square flange receptacle	Without (Fig. 1)	UTSX01823P	UTSX01823S
	Jam nut receptacle	Without (Fig. 7)	UTSX71823P	UTSX71823S

For discrimination/keying methods see **Page 224**

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1823 (Shell size 18, 23x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

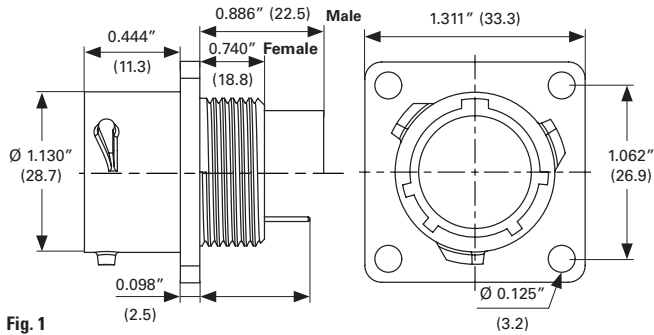


Fig. 1

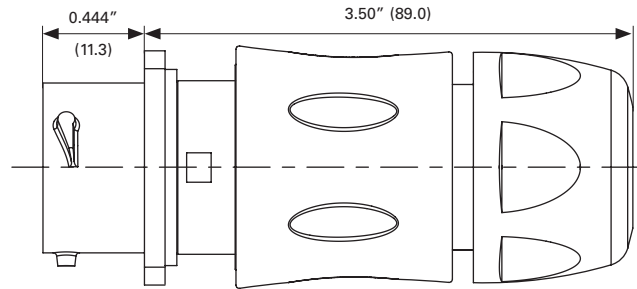


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Free hanging - UTSX1JC and UTSXGJC

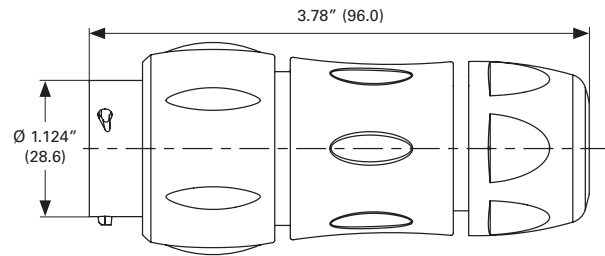


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Plug - UTSX6 and UTSX6JC

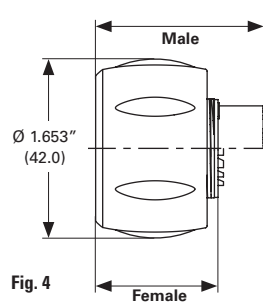


Fig. 4

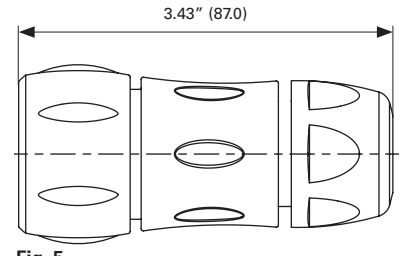


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Jam nut receptacle UTSX7

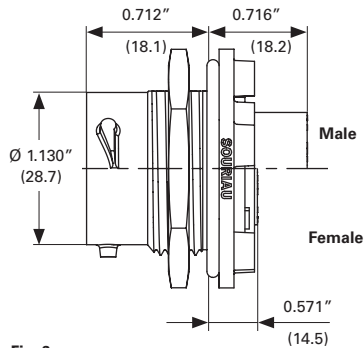


Fig. 6

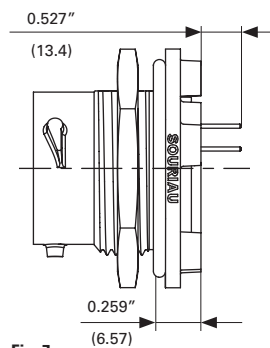


Fig. 7

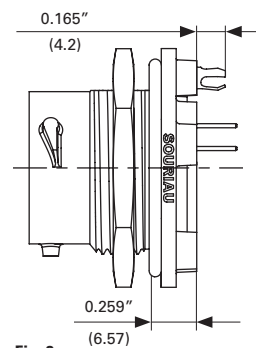
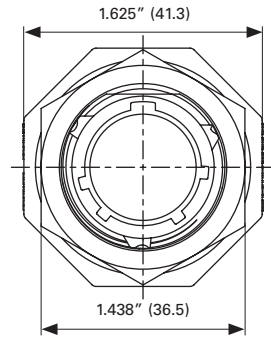
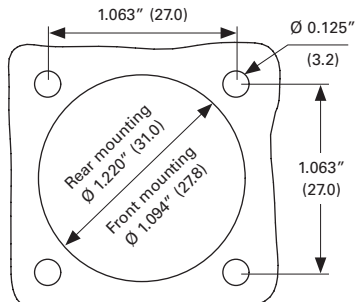


Fig. 8

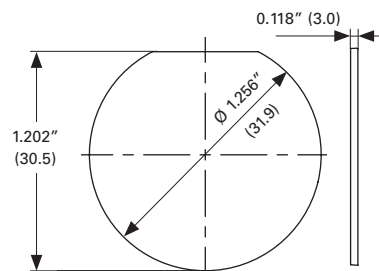


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



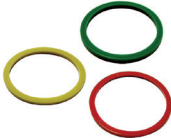
Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

Souriau UTSX series

1823 (Shell size 18, 23x#16)

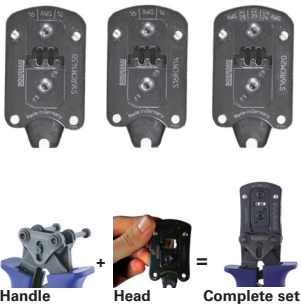
Tooling

Tooling



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #16 Ø 0.062" (1.6)	RM/RC 28M1K ⁽¹⁾	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*

(1) Example of plating, for other plating options see [Page 199](#)
* Heads to be used with handle PN: SHANGLES

#16, #12 and #8 machined contacts



Description	Part number
Crimp tool	M20S-1J
Die casts and stop bushings	See Page 210

Extraction tool #16



Description	Part number
Fig. 1	RX2025GE1
Fig. 2 - Long endurance tool	RX2031J

Contacts #16

Contact style	Contact type	Cable acceptance		Part number	Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm
Crimp contacts	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.021"	0.55
		26-24	0.005"-0.009"	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.031"	0.80
		22-20	0.012"-0.020"	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	0.045"	1.15
		22-20	0.012"-0.020"	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	0.045"	1.15
		20-16	0.020"-0.059"	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	0.070"	1.80
		16-14	0.059"-0.098"	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	0.090"	2.30
	Stamped and formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—
		22-20	0.012"-0.020"	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—
		18-16	0.031"-0.059"	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—
		14	0.098"	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—
		—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—
Coaxial	Cable multipiece	see Page 203		—	RMDXK10D28	RCDXK1D28	—	—
	Cable monocrimp	see Page 203		—	RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece	see Page 203		—	RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—
	Twisted pair monocrimp	see Page 203		—	RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic optical fiber)	—		—	RMPOF1000	RCPOF1000B	—	—
Hand solder	Loaded in the connector	14-18	0.098"-0.031"	2.48-0.80	—	—	—	—

(1) Example of plating, for other plating see Page 199

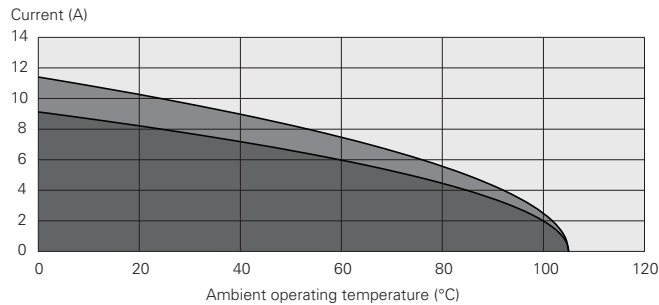
(2) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3) for dimensions see Page 206

Electrical characteristics

UL	CSA	IEC
9A 250V with AWG16 wire	5A 250V with AWG16 wire	8A 16V 2kV 3

UTSX 1823 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.

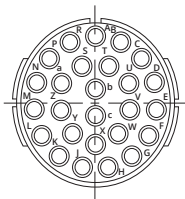
Souriau UTSX series

1626 - 16E26/16D26 (Shell size 16, 26x#20)



Connector part number

UTSX



1626
26 contacts
4A/250V per UL 1977
with AWG20 wire

16E26 / 16D26
26 contacts
4A/250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 188	Square flange receptacle	Without (Fig. 1)	UTSX01626P	UTSX01626S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1626P	UTSX0JC1626S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1626P	UTSX1JC1626S
	Plug	Without (Fig. 4)	UTSX61626P	UTSX61626S
	Plug	Cable gland (Fig. 5)	UTSX6JC1626P	UTSX6JC1626S
	Jam nut receptacle	Without (Fig. 6)	UTSX71626P	UTSX71626S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX71626P32	UTSX71626S32
PCB contacts supplied separately see Page 188	Square flange receptacle	Without (Fig. 1)	UTSX01626P	UTSX01626S
	Jam nut receptacle	Without (Fig. 7)	UTSX71626P	UTSX71626S
Hand solder electrical contacts loaded see Page 188	Square flange receptacle	Without (Fig. 1)	UTSX016E26P	UTSX016E26S
	Plug	Without (Fig. 4)	UTSX616E26P	UTSX616E26S
	Plug	Cable gland (Fig. 5)	UTSX6JC16E26P	UTSX6JC16E26S
	Jam nut receptacle	Without (Fig. 6)	UTSX716E26P	UTSX716E26S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX716E26P32	UTSX716E26S32
PCB contacts loaded see Page 188	Square flange receptacle	Without (Fig. 3)	UTSX016D26P	UTSX016D26S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX716D26P	UTSX716D26S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX716D26P32	UTSX716D26S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers
Please contact us directly for overmolded cable assemblies.

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

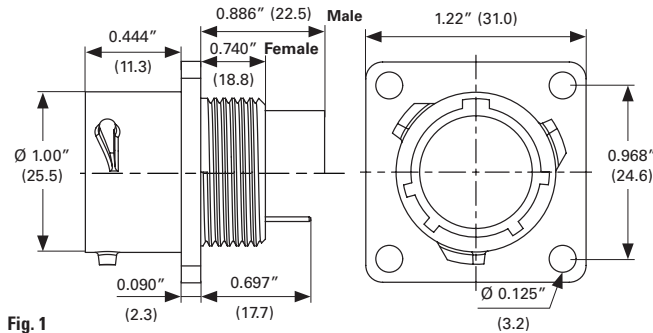


Fig. 1

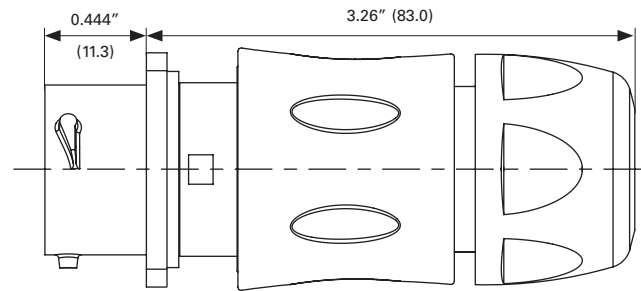


Fig. 2

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Free hanging - UTSX1JC and UTSXGJC

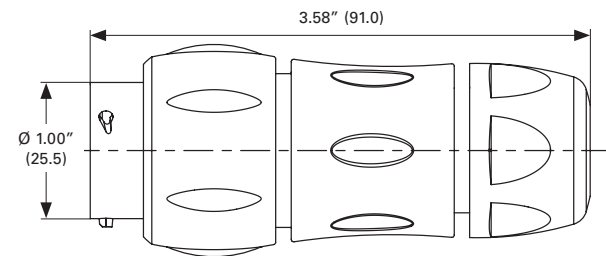


Fig. 3

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Plug - UTSX6 and UTSX6JC

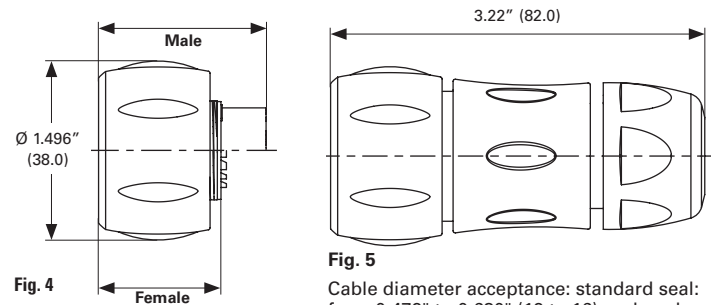


Fig. 4

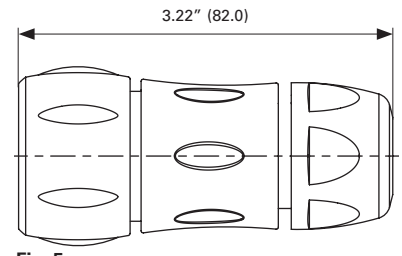


Fig. 5

Cable diameter acceptance: standard seal: from 0.472" to 0.630" (12 to 16), reduced seal: from 0.354" to 0.472" (9 to 12)

Jam nut receptacle UTSX7

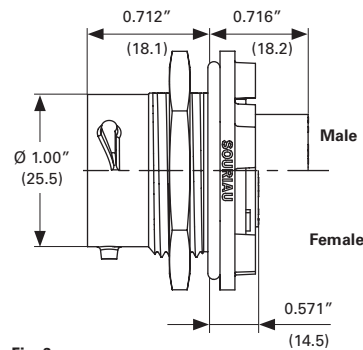


Fig. 6

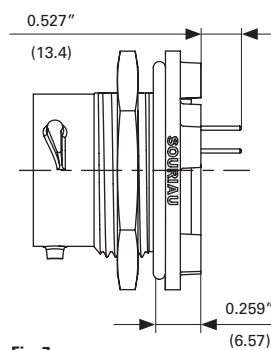


Fig. 7

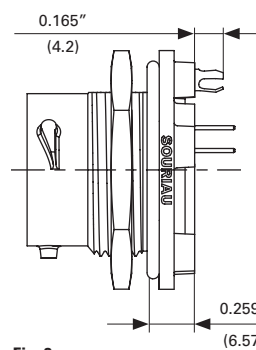
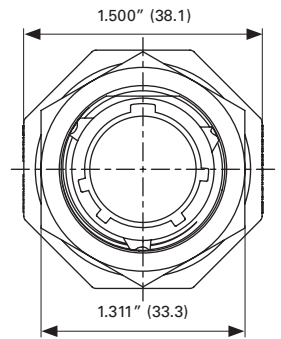
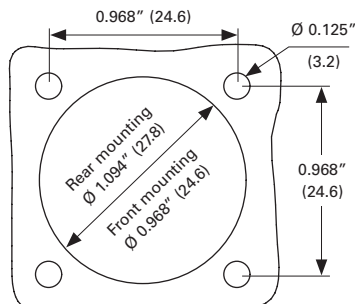


Fig. 8

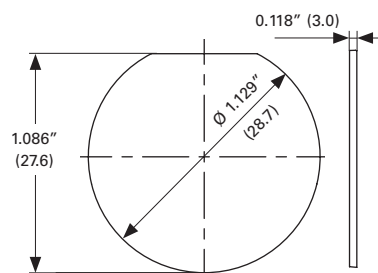


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Souriau UTSX series

1626 - 16E26/16D26 (Shell size 16, 26x#20)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS16DCG
IP68 - Metal terminal	UTS16DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS16DCGE

Plug sealing cap



Description	Part number
IP68	UTX616DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005589A	85005598

Gasket



Part number
UTFD15B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS716CCRG	UTS616CCRG
Y for Yellow	UTS716CCRY	UTS616CCRY
R for Red	UTS716CCRR	UTS616CCRR

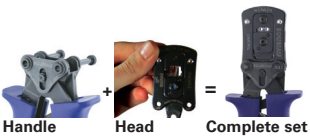
Tooling

#20 stamped or machined contacts



Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	RM/RC 24W3K ⁽¹⁾	S20RCM*
	RM/RC 20W3K ⁽¹⁾	S20RCM*
	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see **Page 199**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1)	RX20D44

Souriau UTSX series

1626 - 16E26/16D26 (Shell size 16, 26x#20)

Contacts #20

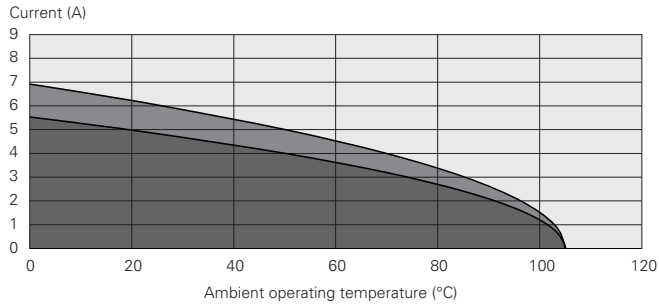
Contact style	Contact type	Cable acceptance			Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note ⁽¹⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6⁽¹⁾	SC24W3TK6⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	SM24W3S26⁽¹⁾	SC24W3S25⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6⁽¹⁾	SC20W3TK6⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	SM20W3S26⁽¹⁾	SC20W3S25⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Electrical characteristics

UL	CSA	IEC
UTSX 1626 4A 250V with AWG20 wire	2A 250V with AWG20 wire	4.5A 32V 1.5kV 2
UTSX 16E26/16D26 4A 250V with AWG20 wire	4A 250V with AWG20 wire	5A 32V 1.5kV 3

UTSX 1626 - 16E26/16D26 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

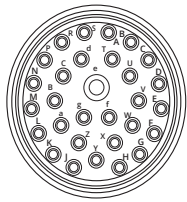
Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.



Connector part number

UTSX 18E30 /18D30



30 contacts
7.5A/250V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Handsolder electrical contacts loaded see Page 192	Square flange receptacle	Without (Fig. 1)	UTSX018E30P	UTSX018E30S
	Plug	Without (Fig. 4)	UTSX618E30P	UTSX618E30S
	Plug	Cable gland (Fig. 5)	UTSX6JC18E30P	UTSX6JC18E30S
	Jam nut receptacle	Without (Fig. 6)	UTSX718E30P	UTSX718E30S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX718E30P32	UTSX718E30S32
PCB contacts loaded see Page 192	Square flange receptacle	Without (Fig. 3)	UTSX018D30P	UTSX018D30S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	UTSX718D30P	UTSX718D30S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX718D30P32	UTSX718D30S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers
Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

18E30/18D30 (Shell size 18, 29x#20, 1x#16)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

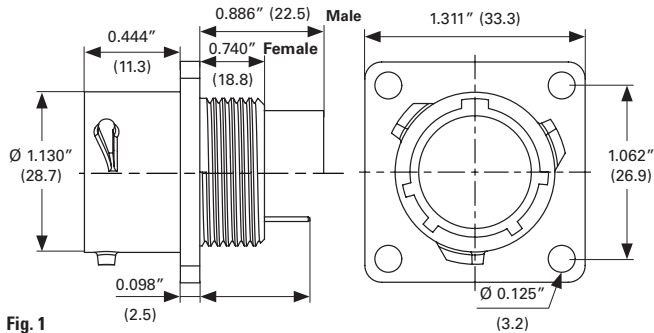


Fig. 1

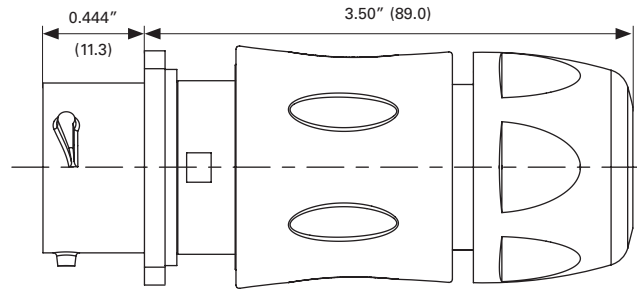


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Free hanging - UTSX1JC and UTSXGJC

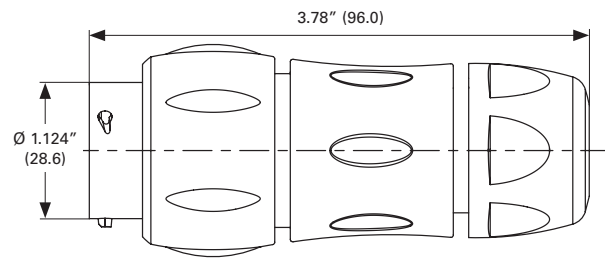


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Plug - UTSX6 and UTSX6JC

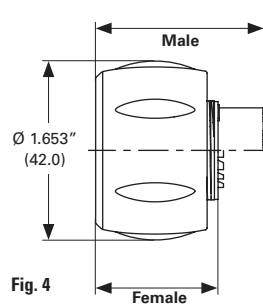


Fig. 4

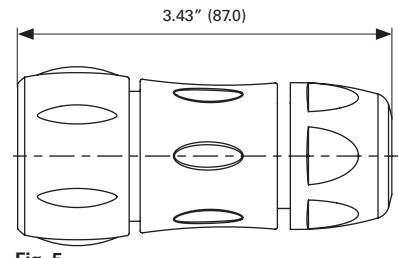


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Jam nut receptacle UTSX7

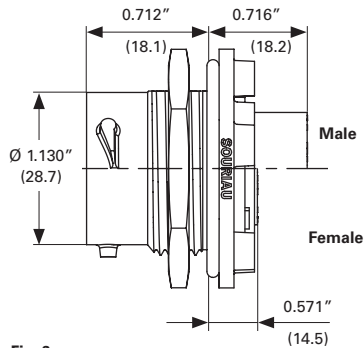


Fig. 6

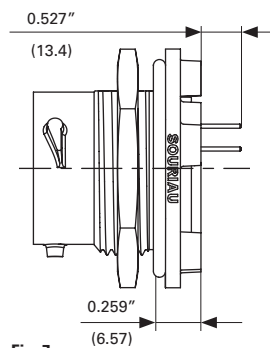


Fig. 7

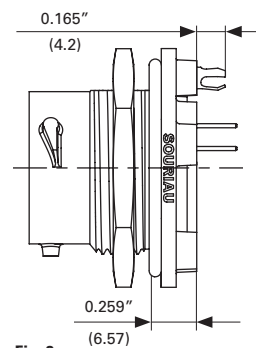
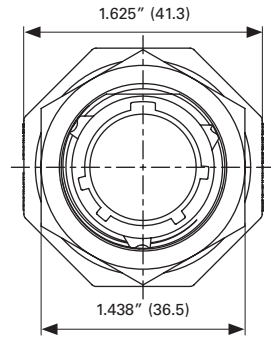
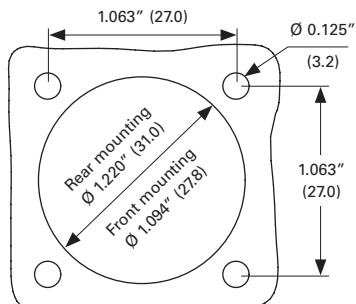


Fig. 8

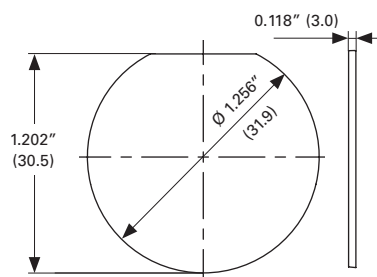


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

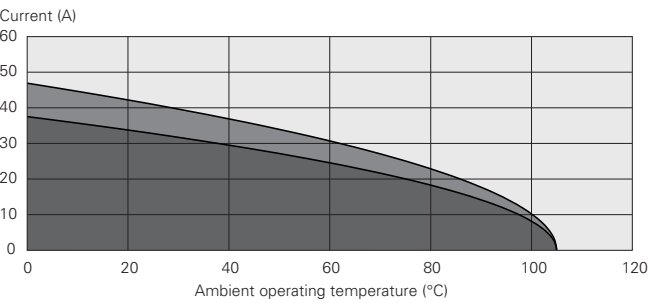
Souriau UTSX series

18E30/18D30 (Shell size 18, 29x#20, 1x#16)

Electrical characteristics

UL	CSA	IEC
UTSX 18E30/18D30 3.5A 250V with AWG 16 wire 7.5A 250V with AWG 20 wire	3.5A 250V with AWG 16 wire 7.5A 250V with AWG 20 wire	13A 20V 2kV 3

UTSX 18E30/18D30 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

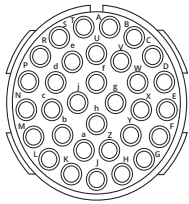
Contact used: machined contacts
Wires used: 16 AWG

Derating curves based on continuous current application.



Connector part number

UTSX



1832

32 contacts
4A/250V per UL 1977
with AWG20 wire

18E32 /18D32

32 contacts
4A/250V per UL 1977
with AWG20 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 197	Square flange receptacle	Without (Fig. 1)	UTSX01832P	UTSX01832S
	Square flange receptacle	Cable gland (Fig. 2)	UTSX0JC1832P	UTSX0JC1832S
	Free hanging receptacle	Cable gland (Fig. 3)	UTSX1JC1832P	UTSX1JC1832S
	Plug	Without (Fig. 4)	UTSX61832P	UTSX61832S
	Plug	Cable gland (Fig. 5)	UTSX6JC1832P	UTSX6JC1832S
	Jam nut receptacle	Without (Fig. 6)	UTSX71832P	UTSX71832S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX71832P32	UTSX71832S32
PCB contacts supplied separately see Page 197	Square flange receptacle	Without (Fig. 1)	UTSX01832P	UTSX01832S
	Jam nut receptacle	Without (Fig. 7)	UTSX71832P	UTSX71832S
Handsolder electrical contacts loaded see Page 197	Square flange receptacle	Without (Fig. 1)	UTSX018E32P	UTSX018E32S
	Plug	Without (Fig. 4)	UTSX618E32P	UTSX618E32S
	Plug	Cable gland (Fig. 5)	UTSX6JC18E32P	UTSX6JC18E32S
	Jam nut receptacle	Without (Fig. 6)	UTSX718E32P	UTSX718E32S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX718E32P32	UTSX718E32S32
PCB contacts loaded see Page 197	Square flange receptacle	Without (Fig. 3)	UTSX018D32P	UTSX018D32S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTSX718D32P	UTSX718D32S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTSX718D32P32	UTSX718D32S32

For discrimination/keying methods see **Page 224**

Sealed unmated

Overmolded cable assembly part numbers

Please contact us directly for overmolded cable assemblies.

Souriau UTSX series

1832 - 18E32/18D32 (Shell size 18, 32x#20)

Dimensions (For mated connector lengths see Page 216)

Square flange receptacle - UTSX0 and UTSX0JC

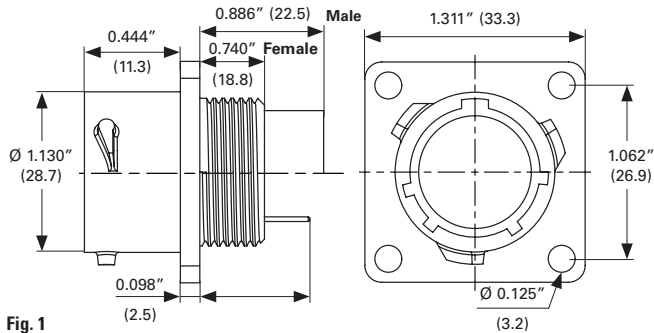


Fig. 1

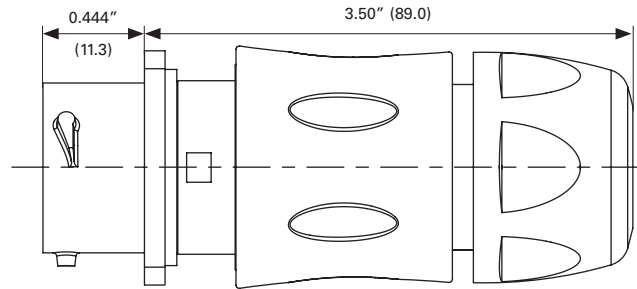


Fig. 2

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Free hanging - UTSX1JC and UTSXGJC

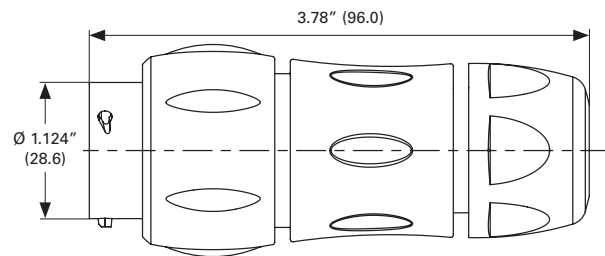


Fig. 3

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Plug - UTSX6 and UTSX6JC

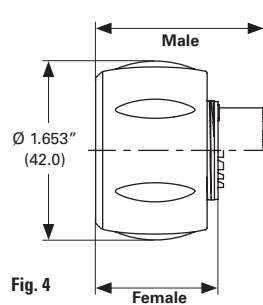


Fig. 4

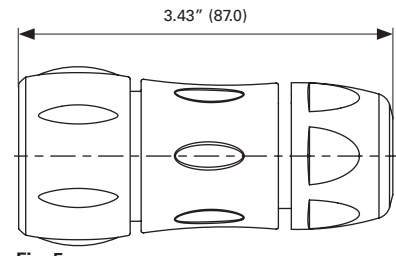


Fig. 5

Cable diameter acceptance: standard seal: from 0.512" to 0.709" (13 to 18), reduced seal: from 0.433" to 0.590" (11 to 15)

Jam nut receptacle UTSX7

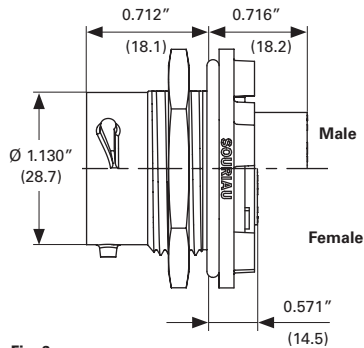


Fig. 6

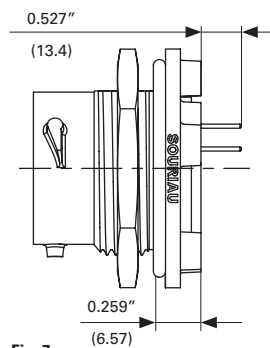


Fig. 7

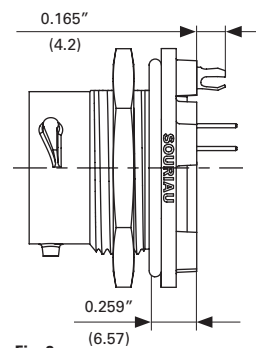
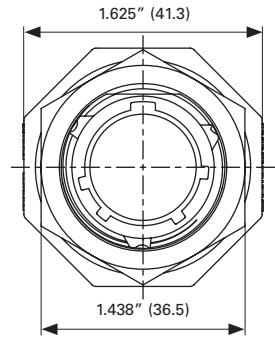
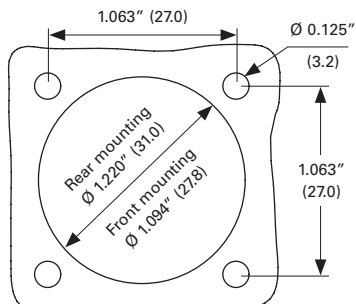


Fig. 8

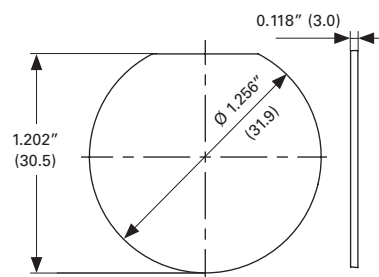


Panel cut out

Square flange receptacle - UTSX0



Jam nut receptacle - UTSX7



Dimensions in inches (millimeters)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68	UTS18DCG
IP68 - Metal terminal	UTS18DCGR

Square flange sealing cap



Description	Part number
IP68 - Metal terminal	UTS18DCGE

Plug sealing cap



Description	Part number
IP68	UTX618DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005590A	85005599

Gasket



Part number
UTFD16B

Color coding rings



Description	Part number receptacles	Part number plugs
G for Green	UTS718CCRG	UTS618CCRG
Y for Yellow	UTS718CCRY	UTS618CCRY
R for Red	UTS718CCRR	UTS618CCRR

Souriau UTSX series

1832 - 18E32/18D32 (Shell size 18, 32x#20)

Tooling

#20 stamped or machined contacts



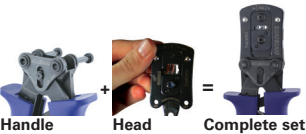
Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 0.039" (1)	RM/RC 24W3K ⁽¹⁾	S20RCM*
	RM/RC 20W3K ⁽¹⁾	S20RCM*
	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1) Example of plating, for other plating options see **Page 198**
(2) Loose contact
* Heads to be used with handle PN: SHANDLES



Extraction tool #20



Description	Part number
Contacts #20 Ø 0.039" (1.0)	RX20D44

Contacts #20

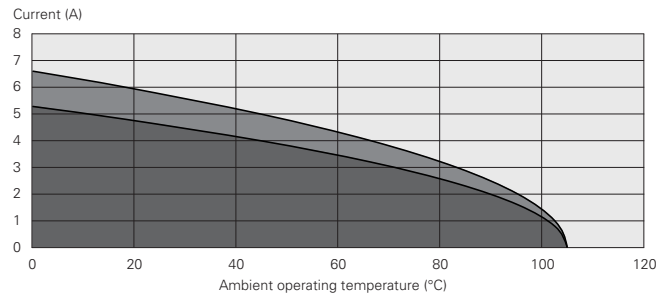
Contact style	Contact type	Cable acceptance			Part number		Wire Ø max		Insulator Ø max	
		AWG	inch ²	mm ²	Male	Female	inch	mm	inch	mm
Crimp contacts	Machined	26-24	0.005"-0.009"	0.13-0.25	RM24W3K	RC24W3K	0.031"	0.80	0.062"	1.58
		22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.045"	1.15	0.070"	1.80
		20-18	0.020"-0.031"	0.52-0.80	RM18W3K	RC18W3K	0.051"	1.30	0.082"	2.10
	Stamped and formed reeled contacts See note ⁽¹⁾ for loose piece	26-24	0.005"-0.009"	0.13-0.25	SM24W3TK6 ⁽¹⁾	SC24W3TK6 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		26-24	0.005"-0.009"	0.13-0.25	SM24W3S26 ⁽¹⁾	SC24W3S25 ⁽¹⁾	—	—	0.035"-0.062"	0.90-1.60
		22-20	0.012"-0.020"	0.32-0.52	SM20W3TK6 ⁽¹⁾	SC20W3TK6 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10
		22-20	0.012"-0.020"	0.32-0.52	SM20W3S26 ⁽¹⁾	SC20W3S25 ⁽¹⁾	—	—	0.047"-0.082"	1.20-2.10

(1) Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

Electrical characteristics

UL	CSA	IEC
UTSX 1832 4A 250V with AWG20 wire	2A 250V with AWG20 wire	4A 32V 1.5kV 2
UTSX 18E32/18D32 4A 250V with AWG20 wire	4A 250V with AWG20 wire	4.5A 32V 2kV 3

UTSX 1832 - 18E32/18D32 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 20 AWG

Derating curves based on continuous current application.

Souriau UTSX series

Description

UTSX contacts

The TRIM TRIO® product line uses the same contact style in any layout, with the same active part size (i.e. #20, #16, #12, etc.). This allows you to use one type of contact to equip all of your Souriau connectors in the TRIM TRIO® product line.

Please note that the UTSX series is delivered with solder or PCB contacts for Hi-seal versions and without contacts for standard crimp versions. The benefit of this standardization is to drastically reduce inventory costs. In addition, it eliminates the need for additional tooling and simplifies the assembly process. Souriau TRIM TRIO® contacts are designed for simple snap-in installation and further eliminate the need for an insertion tool.

Contact plating selector guide

Once the contact size has been selected, the next step determine which electrical contact type should be used. We offers two main types of electrical contacts:

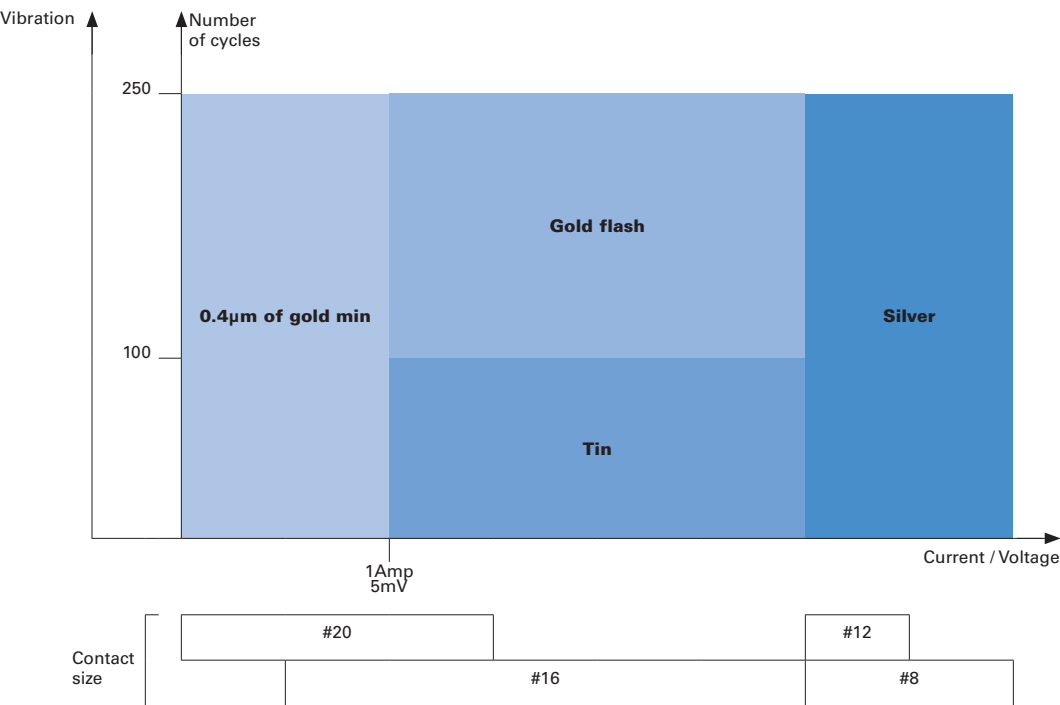
- Machined
- Stamped and formed



Machined contacts are generally selected as a better solution for power applications or when lower quantities are needed. Stamped and formed contacts offer the ability to be crimped automatically which makes them more suitable for high volume production applications.

The ideal plating is selected based on your application. Use the graph below to identify a plating based on the number of mating cycles, vibration and current/voltage needs for your application.

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



Machined contacts

Contact size	Contact type	Active area
#20 Ø 0.039" (1)	K	0.4µm Gold over 2µm Nickel min
#16 Ø 0.062" (1.6)	K	0.4µm Gold over 2µm Nickel min
	J	Gold flash over Nickel 2µm min
	T	Tin 3µm (-0/+2) over 1.3µm Nickel min
	D28 for Coax contacts only	0.75µm min Gold over 2µm Nickel min
#12 Ø 0.094" (2.4)	A	2µm Nickel + 2µm Ag
	K	0.4µm Gold over 2µm Nickel min
#8 Ø 0.141" (3.6)	A	2µm Nickel + 2µm Ag

Stamped and formed contacts

Contact size	Plating code	Plating description Active area	Other area
#20 Ø 0.039" (1)	S25 (female)	0.75µm Gold min over Nickel	Gold flash over Nickel
	S26 (male)	0.75µm Gold min over Nickel	Gold flash over Nickel
	TK6	0.5µm - 2.5µm Sn pre-plated	-
#16 Ø 0.062" (1.6)	S31	Gold flash over Nickel	Crimped area: 1.3µm
	S18	0.75µm Gold min over Nickel	Tin min over Nickel
			Other areas: 1.3µm
			Tin min
	D70	0.13µm Gold min over Nickel	Gold flash over Nickel
	TK6	0.5µm - 2.5µm Sn pre-plated	-

Contacts supplied separately

Contact size	Contact type	Resistance
Electrical characteristics: contact resistance		
#20 Ø 0.039" (1)	Machined	< 6mΩ
	Stamped and formed	< 6mΩ
#16 Ø 0.062" (1.6)	Machined	< 3mΩ
	Stamped and formed	< 6mΩ
#12 Ø 0.094" (2.4)	Machined	< 5mΩ
#8 Ø 0.141" (3.6)	Machined	< 5mΩ

Souriau UTSX series

Packaging

TRIM TRIO® contacts are available in a wide variety of packaging, from very small quantities (small bulk packaging) to very large quantities (reeled parts).

Contacts size #20 / Ø 0.039" (1) and #16 / Ø 0.062" (1.6)

Stamped and formed contacts



Description	Number
Loose package	25 pieces
Reeled	3,000 pieces

Machined contacts



Description	Number
Bulk package	50 pieces
Bulk package	1,000 pieces
Reeled size #16 only	2,000 pieces

Contacts machined size #12 / Ø 0.094" (2.4) and #8 / Ø 0.141" (3.6)

Machined contacts



Description	Number
Bulk package	100 pieces

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

Standard version

Contact size	Type	Wire size			Part number		Insulator Ø max		Available plating see Page 126
		AWG	inch ²	mm ²	Male	Female	inch	mm	
#20 Ø 0.039" (1)	Machined	26-24	0.005"-0.007"	0.13-0.20	RM24W3K	RC24W3K	0.062" max	1.58 max	K
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	SM24W3-(1)	SC24W3-(1)	0.035"-0.062"	0.89-1.58	TK6 S25 (female) S26 (male)
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	SM24WL3-(2)	SC24WL3-(2)	0.035"-0.062"	0.89-1.58	TK6 S25 (female) S26 (male)
	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20W3K	RC20W3K	0.062" max	1.58 max	K
	Stamped and formed	22-20	0.013"-0.019"	0.35-0.5	SM20W3-(1)	SC20W3-(1)	0.046"-0.081"	1.17-2.08	TK6 S25 (female) S26 (male)
	Stamped and formed	22-20	0.013"-0.019"	0.35-0.5	SM20WL3-(2)	SC20WL3-(2)	0.046"-0.081"	1.17-2.08	TK6 S25 (female) S26 (male)
	Machined	20-18	0.019"-0.031"	0.5-0.80	RM18W3K	RC18W3K	0.082" max	2.10 max	K
#16 Ø 0.062" (1.6)	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1-	RC28M1-	0.043"	1.1	K, J
	Machined	26-24	0.005"-0.007"	0.13-0.2	RM24M9-	RC24M9-	0.062"	1.6	K, J
	Stamped and formed	26-24	0.005"-0.009"	0.13-0.25	SM24M1-(1) SM24ML1-(2)	SC24M1-(1) SC24ML1-(2)	0.089"-0.062"	0.89-1.58	S31, S18, TK6
	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20M13-	RC20M13-	0.070"	1.8	K, J
	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20M12-	RC20M12-	0.086"	2.2	K, J
	Stamped and formed	22-20	0.013"-0.019"	0.35-0.5	SM20M1-(1) SM20ML1-(2)	SC20M1-(1) SC20ML1-(2)	0.046"-0.081"	1.17-2.08	S31, S18, TK6
	Machined	18-16	0.031"-0.059"	0.92-1.5	RM16M23-	RC16M23-	0.125"	3.2	K, J
	Stamped and formed	18-16	0.031"-0.059"	0.8-1.5	SM16M1-(1) SM16ML1-(2)	SC16M1-(1) SC16ML1-(2)	No insulation grip	No insulation grip	S31, S18, TK6
	Stamped and formed	18-16	0.031"-0.059"	0.8-1.5	SM16M11-(1) SM16ML11-(2)	SC16M11-(1) SC16ML11-(2)	0.081"-0.118"	2.08-3.0	S31, S18, TK6
	Machined	16-14	0.059"-0.098"	1.5-2.5	RM14M30-	RC14M30-	0.125"	3.2	K, J
	Stamped and formed	14	0.078"-0.098"	2.0-2.5	SM14M1-(1) SM14ML1-(2)	SC14M1-(1) SC14ML1-(2)	No insulation grip	No insulation grip	S31, S18, TK6
#12 Ø 0.094" (2.4)	Machined	20	0.020"-0.015"	0.52-0.4	82911457N-	82911456-	0.157"	4.0	A, K
	Machined	20	0.019"	0.5	82911459N-	82911458-	0.157"	4.0	A, K
	Machined	18	0.2.952"-0.039"	0.75-1.0	82911461N-	82911460-	0.157"	4.0	A, K
	Machined	16	0.059"	1.5	82911463N-	82911462-	0.157"	4.0	A, K
	Machined	14	0.098"	2.5	82911465N-	82911464-	0.157"	4.0	A, K
	Machined	12	0.157"	4	82911467N-	82911466-	0.157"	4.0	A, K
#8 Ø 0.141" (Ø 3.6)	Machined	16	0.059"	1.5	82913601A	82913600A	0.248"	6.3	A
	Machined	14	0.098"	2.5	82913603A	82913602A	0.248"	6.3	A
	Machined	12	0.157"	4	82913605A	82913604A	0.248"	6.3	A
	Machined	10	0.236"	6.0	82913607A	82913606A	0.248"	6.3	A
	Machined	8	0.393"	10.0	82913609A	82913608A	0.248"	6.3	A

(1) contact reeled

(2) loose contact

Example: RM24W3K - Size #20, Machined, AWG24 wire.

Souriau UTSX series

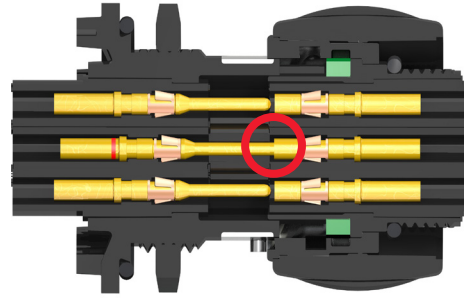
Crimp contacts

First mate, last break male contacts

The layouts UTSX103, UTSX124, UTSX12E4/12D4, UTSX142G1, UTSX147 and UTSX14E7/14D7 are already designed to have a first mate, last break connection on the ground line. That's why, 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.

For the other layouts (without ground marking) a specific contact is necessary to achieve ground connection.

Please choose your contact from the table below.

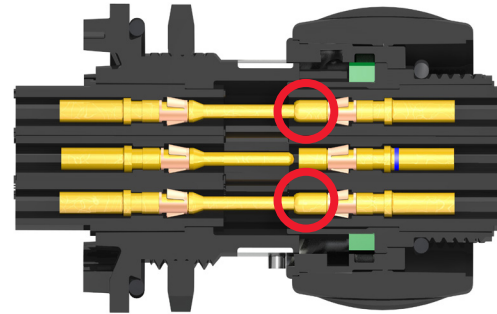


Contact size	Type	Wire size			Part number	Wire Ø max		Insulator Ø max		Color band		Available plating see Page 126
		AWG	inch ²	mm ²		inch	mm	inch	mm	Front	Rear	
#16 Ø 0.062" (1.6)	Machined	30-28	0.002"-0.003"	0.05-0.08	RM28M1GE1K	0.021"	0.55	0.039"	1.0	-	Red	K
	Machined	26-24	0.005"-0.007"	0.13-0.2	RM24M9GE1K	0.031"	0.8	0.062"	1.6	Red	Red	K
Longer male contact +0.039" (+1)	Machined	22-20	0.012"-0.020"	0.32-0.52	RM20M12GE1K	0.045"	1.15	0.086"	2.2	Blue	Red	K
	Machined	18-16	0.031"-0.059"	0.92-1.5	RM16M23GE1K	0.070"	1.8	0.125"	3.2	-	Red	K
	Machined	16-14	0.059"-0.098"	1.5-2.5	RM14M30GE1K	0.089"	2.26	-	-	-	Red	K

Last break, first mate female contacts

In order to create a last break, first mate connection, a shorter female contact is necessary. On the other side, a standard male contact can be used.

A complete offer of contacts is available to realize this connection type according the wire section used for our contact #16. Please choose your contact from the table below.



Contact size	Type	Wire size			Part number	Wire Ø max		Insulator Ø max		Color band		Available plating see Page 126
		AWG	inch ²	mm ²		inch	mm	inch	mm	Front	Rear	
#16 Ø 0.062" (1.6)	Machined	30-28	0.002"-0.003"	0.05-0.08	RC28M1GE7K	0.021"	0.55	0.039"	1.0	-	Blue	K
	Machined	26-24	0.005"-0.007"	0.13-0.2	RC24M9GE7K	0.031"	0.8	0.062"	1.6	Red	Blue	K
Shorter female contact -0.027" (-0.7)	Machined	22-20	0.012"-0.020"	0.32-0.52	RC20M13GE7K	0.045"	1.15	0.070"	1.8	Black	Blue	K
	Machined	22-20	0.012"-0.020"	0.32-0.52	RC20M12GE7K	0.045"	1.15	0.086"	2.2	Blue	Blue	K
	Machined	18-16	0.031"-0.059"	0.92-1.5	RC16M23GE1K	0.070"	1.8	0.125"	3.2	-	Blue	K
	Machined	16-14	0.059"-0.098"	1.5-2.5	RC14M30GE1K	0.089"	2.26	-	-	-	Blue	K

Dimensions in inches (millimeters)

We provides two types of coaxial contacts suitable for 48 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 is achieved by simultaneously crimping both the inner conductor and outer braid or drain wire.



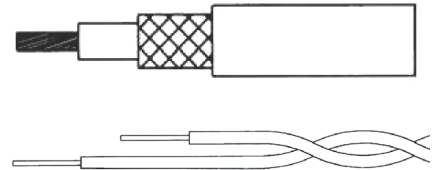
Multipiece crimp coaxial contact

- 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 0.070" to 0.120" (1.78 to 3.05). Inner conductor up to 0.096" (2.42) diameter
- For jacket diameter from 0.025" to 0.057" (0.64 to 1.45). Inner conductor from AWG30 to AWG24



Contacts for coaxial cable summary

Contact type	Contact range	
	Male contact	Female contact
Multipiece	RMDXK10D28	RCDXK1D28
Monocrimp	RMDX60xxD28	RCDX60xxD28

Contacts for twisted pairs cable summary

Contact type	Contact range	
	Male contact	Female contact
Multipiece	RMDXK10D28 + Yorx090	RCDXK1D28 + Yorx090
Monocrimp	RMDX60xxD28	RCDX60xxD28

Coaxial cable - contact monocrimp and multipiece

Cable type	Impedance	Contact type	Ø over jacket		Ø over dielectric		Inner cond size Ext. Ø		Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	inch	mm	inch	mm	inch	mm		
RG161/U	75	Multi piece	0.09"	2.29	0.057"	1.45	—	—	—	—	RMDXK10D28	RCDXK1D28
RG179A/U	75	Multi piece	0.105"	2.67	0.063"	1.6	0.011"	0.3	0.084" max	2.13 max	RMDXK10D28	RCDXK1D28
RG179B/U	75	Multi piece	0.105"	2.67	0.063"	1.6	0.011"	0.3	0.084" max	2.13 max	RMDXK10D28	RCDXK1D28
RG187/U	75	Multi piece	0.11" max	2.79 max	0.06"	1.52	0.011"	0.3	—	—	RMDXK10D28	RCDXK1D28
RG188A/U	48	Multi piece	0.11" max	2.79 max	0.06"	1.52	0.020"	0.51	0.078" max	1.98 max	RMDXK10D28	RCDXK1D28
RG174/U	48	Multi piece	0.11"	2.92	0.06"	1.52	0.018"	0.05	0.088" max	2.24 max	RMDXK10D28	RCDXK1D28
AMPHENOL 21-598	48	Multi piece	0.105"	2.67	0.06"	1.52	0.018"	0.05	—	—	RMDXK10D28	RCDXK1D28
RG196/U	48	Multi piece	0.08" max	2.03 max	0.034"	0.86	0.011"	0.3	—	—	RMDXK10D28	RCDXK1D28
RG152A/U	48	Multi piece	0.075"	1.91	0.034"	0.84	0.011"	0.3	0.054" max	1.37 max	RMDXK10D28	RCDXK1D28
RG/188A/U	48	Mono crimp	0.110"	2.79	0.06"	1.52	0.020"	0.51	0.078" max	1.98 max	RMDX6036D28	RCDX6036D28
KX21TVT (europe) RG152 B/U	48	Mono crimp	0.075"	1.91	0.034"	0.84	0.011"	0.3	0.054" max	1.37 max	RMDX6034D28	RCDX6034D28
RG152 / BU	48	Mono crimp	0.075"	1.91	0.034"	0.84	0.011"	0.3	0.054" max	1.37 max	RMDX6050D28	RCDX6016D28
RG174/U	48	Mono crimp	0.115"	2.92	0.06"	1.52	0.018"	0.05	0.088" max	2.24 max	RMDX6032D28	RCDX6032D28
RG188A/U	48	Mono crimp	0.11"	2.79	0.06"	1.52	0.020"	0.51	0.078" max	1.98 max	RMDX6036D28	RCDX6036D28
RG316/U	48	Mono crimp	0.107"	2.72	0.06"	1.52	0.020"	0.51	0.078" max	2.05 max	RMDX6036D28	RCDX6036D28
raychem 5024A3111	48	Mono crimp	0.12"	3.05	0.083"	2.11	0.025"	0.64	0.097"	2.46	RMDX6052D28	RCDX6052D28
raychem 5026e1614	48	Mono crimp	0.083"	2.11	0.05"	1.27	0.018"	0.05	0.067"	1.7	RMDX6036D28	RCDX6036D28
surprenant pn 8134	—	Multi piece	0.1"	2.54	0.058"	1.47	0.011"	0.3	—	—	RMDXK10D28	RCDXK1D28
PRD PN 247AS-C1123-001	—	Mono crimp	0.103"	2.62	0.06"	1.52	0.020"	0.51	0.078"	1.98	RMDX6018D28	RCDX6018D28
PRD PN 247AS-C1251	—	Mono crimp	0.092"	2.34	0.05"	1.27	0.025"	0.64	0.067"	1.7	RMDX6018D28	RCDX6018D28
JUDD C15013010902	—	Mono crimp	0.087"	2.13	0.05"	1.27	0.018"	0.05	0.066"	1.67	RMDX6036D28	RCDX6036D28
CDC PIN22939200	—	Mono crimp	0.09"	2.29	0.048"	1.20	0.011"	0.3	0.064"	1.63	RMDX6046D28	RCDX6016D28
CDC PIN22939200	—	Mono crimp	0.09"	2.29	0.048"	1.20	0.011"	0.3	0.064"	1.63	RMDX6050D28	RCDX6016D28
CDC PIN245670000	—	Mono crimp	0.104"	2.64	0.067"	1.7	0.011"	0.3	0.083"	2.11	RMDX6050D28	RCDX6016D28
ampex	—	Mono crimp	0.114"	2.9	0.075"	1.91	0.014"	0.36	0.09"	1.29	RMDX6032D28	RCDX6032D28
TI PN 920580	—	Mono crimp	0.7"	1.78	0.038"	0.94	0.018"	0.05	0.054"	1.37	RMDX6024D28	RCDX6024D28
Honeywell PN 58000062	—	Mono crimp	0.12"	3.05	0.077"	1.94	0.016" solid	0.41 solid	0.096"	2.42	RMDX6026D28	RCDX6026D28
—	—	Mono crimp	0.104"	2.64	0.067"	1.7	0.011"	0.3	—	2.11	RMDX6050D28	—
—	—	Mono crimp	0.09"	2.29	0.048"	1.20	0.011"	0.3	—	1.63	RMDX6050D28	—
—	—	Mono crimp	0.114"	2.9	0.075"	1.91	0.014"	0.36	—	1.29	RMDX6032D28	RCDX6032D28
—	—	Mono crimp	0.07"	1.78	0.038"	0.94	0.018"	0.05	—	1.37	RMDX6024D28	RCDX6024D28
—	—	Mono crimp	0.12"	3.05	0.077"	1.94	0.016"	0.41	—	2.42	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 inch	mm	inch			mm
2#24 stranded MIL-W-16878 type B	Multi piece	24	0.049" max	1.24 max	7/.008	—	—	—	—	RMDXK10D28	RCDXK1D28
2 #24 solid MIL-W-74 type LW	Multi piece	24	0.047" max	1.12 max	1/.0201	—	—	—	—	RMDXK10D28	RCDXK1D28
2 #26 stranded MIL-W-74 type LW or MIL-W-16878 type B&E	Multi piece	26	0.043" max	1.09 max	7/.0063	0.006"	0.16	—	—	RMDXK10D28	RCDXK1D28
2 #26 solid MIL-W-81822/3	Multi piece	26	0.028" max	0.71 max	—	—	—	—	—	RMDXK10D28	RCDXK1D28
Twisted pair 1/.201 solid MIL-W-74 type LW or MIL-W-16878	Multi piece	26	0.044" max	1.12 max	1/.0201	0.020"	0.511	—	—	RMDXK10D28	RCDXK1D28
Twisted pair solid MIL-W-81822/3	Multi piece	26	0.028" max	0.71 max	1/.0126	0.012"	0.32	—	—	RMDXK10D28	RCDXK1D28
#26 7/.0036 per Hitachi spec ec-711 (13-2820)	Mono crimp	—	0.046"	1.17	7/.0036	—	—	—	—	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090
20218201	Mono crimp	—	0.028"	0.71	—	—	—	—	—	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090
#30 solid	Mono crimp	—	0.025"	0.64	—	—	—	—	—	RMDX6015D28 + YORX090	RCDX6015D28 + YORX090
#26 7/.0063	Mono crimp	26	0.028"	0.71	7/.063	0.006"	0.16	—	—	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090
#26 19/.004	Mono crimp	26	0.049"	1.24	19/.004	—	—	—	—	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
#24 7/.008	Mono crimp	24	0.049"	1.24	7/.008	—	—	—	—	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
#24 19/.005	Mono crimp	24	0.057"	1.45	19/.005	—	—	—	—	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—	Mono crimp	26	—	1.25	—	—	—	0.748"x 0.004"	19x0.1	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—	Mono crimp	24	—	1.25	—	—	—	0.275"x 0.007"	7x0.2	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—	Mono crimp	24	—	1.45	—	—	—	0.748"x 0.005"	19x0.13	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—	Mono crimp	26	—	0.7	—	—	—	0.275"x 0.006"	7x0.16	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090

PCB contacts supplied separately - UTSX standard series

PCB soldering



The UTSX series can be used in a wave soldering process but not reflow soldering process.
All high temperature processes are prohibited.

Contact size	Type	Part number Male	Female	Plating see Page 126
#20 Ø 0.039" (1)	Short version	RMW50A7K	RCW50A7K	K
	Long version	RMW5016K	RCW5016K	K
#16 Ø 0.062" (1.6)	Short version	RM20M12E8K	RC20M12E8K	K
	Long version	RM20M12E83K	RC20M12E83K	K
	Long version	RM20M12E83K	RC20M12E84K	K
#8 Ø 0.141" (3.6)	—	82911685NPC	82911684NPC	2 µm Ni
	—	82911685NAPC	82911684NAPC	3 µm Ag

Minimal length G



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

UTSX0 with PCB contacts #16

Connector size	Pin contact RM20M 12E8K*		RM20M 12E84K*		RM20M 12E84K*		Socket contact RC20M 12E8K*		RC20M 12E83K*		RC20M 12E84K*		RC20M 12E87K*	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
10	0.165"	4.2	0.370"	9.4	0.507"	12.9	0.165"	4.2	0.370"	9.4	0.507"	12.9	0.255"	6.5
12	0.141"	3.6	0.346"	8.8	0.484"	12.3	0.165"	4.2	0.370"	9.4	0.507"	12.9	0.255"	6.5
14	0.129"	3.3	0.334"	8.5	0.472"	12.0	0.102"	2.6	0.307"	7.8	0.444"	11.3	0.192"	4.9
16	0.161"	4.1	0.362"	9.2	0.488"	12.4	0.126"	3.2	0.331"	8.4	0.469"	11.9	0.217"	5.5
18	0.161"	4.1	0.362"	9.2	0.488"	12.4	0.126"	3.2	0.331"	8.4	0.469"	11.9	0.217"	5.5

UTSX7 with PCB contacts #20 and #16

Connector size	Pin contact RM20M 12E83K*		RM20M 12E84K*		RMW 50A7K*		RMW 5016K*		Socket contact RC20M 12E84K*		RCW 50A7K*		RCW 5016K*	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
10	0.287"	7.3	0.425"	10.8	0.330"	8.4	0.366"	9.3	0.141"	3.6	0.330"	8.4	0.366"	9.3
12	0.287"	7.3	0.425"	10.8	0.330"	8.4	0.366"	9.3	0.153"	3.9	0.330"	8.4	0.366"	9.3
14	0.287"	7.3	0.425"	10.8	0.330"	8.4	0.366"	9.3	0.141"	3.6	—	—	—	—
16	0.362"	9.2	0.488"	12.4	0.358"	9.1	0.394"	10.0	0.181"	4.6	—	—	—	—
18	0.362"	9.2	0.488"	12.4	0.358"	9.1	0.394"	10.0	0.181"	4.6	—	—	—	—

* Plating indication see Page 199

UTSX7 with PCB contacts #16 and #8

Connector size	Pin contact RM20M12E83K*		82911685NPC*		Socket contact RC20M12E87K*		82911684NPC*	
	inch	mm	inch	mm	inch	mm	inch	mm
UTSX7142G1P	—	—	0.251"	6.4	—	—	—	—
UTSX7142G1S	—	—	—	—	—	—	0.322"	8.2

* Plating indication see Page 199

PCB contacts loaded - UTSX sealed unmated series

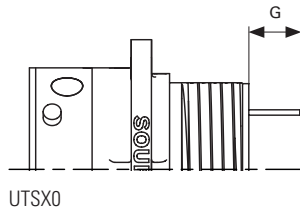
PCB soldering

The UTSX series can be used in a wave soldering process, but not reflow soldering process.

All high temperature processes are prohibited.

Minimal length G

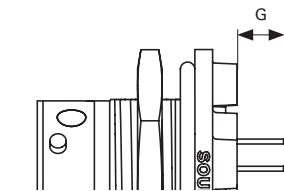
Dimension of dipsolder contacts out of connector (contacts to be ordered separately).



UTSX0

UTSX0

Connector size	Connector part number	Pin contact G min		G max		Socket contact G min		G max	
		inch	mm	inch	mm	inch	mm	inch	mm
10	10D6 - 10D98 - 10D7	0.318"	8.1	0.401"	10.2	0.318"	8.1	0.405"	10.3
12	12D2 - 12D3 - 12D8 - 12D10	0.318"	8.1	0.401"	10.2	0.318"	8.1	0.405"	10.3
	12D4	0.322"	8.2	0.393"	10	0.318"	8.1	0.405"	10.3
	12D14	0.283"	7.2	0.354"	9	0.279"	7.1	0.362"	9.2
14	14D5 - 14D12 - 14D15 14D18 - 14D19	0.318"	8.1	0.401"	10.2	0.318"	8.1	0.405"	10.3
	14D7	0.322"	8.2	0.393"	10	0.318"	8.1	0.405"	10.3
16	16D8 - 16D23 - 16D26	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0
18	18D11 - 18D30 - 18D32	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0



UTSX7

UTSX7

Connector size	Connector part number	Pin contact G min		G max		Socket contact G min		G max	
		inch	mm	inch	mm	inch	mm	inch	mm
10	10D6 - 10D98 - 10D7	0.185"	4.7	0.287"	7.3	0.185"	4.7	0.275"	7
12	12D2 - 12D3 - 12D8 - 12D10	0.185"	4.7	0.287"	7.3	0.188"	4.8	0.275"	7
	12D4	0.192"	4.9	0.279"	7.1	0.188"	4.8	0.275"	7
	12D14	0.153"	3.9	0.244"	6.2	0.149"	3.8	0.236"	6
14	14D5 - 14D12 - 14D15 14D18 - 14D19	0.188"	4.8	0.287"	7.3	0.192"	4.9	0.275"	7
	14D7	0.192"	4.9	0.279"	7.1	0.192"	4.9	0.275"	7
16	16D8 - 16D23 - 16D26	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0
18	18D11 - 18D30 - 18D32	0.189"	4.8	0.275"	7.0	0.189"	4.8	0.275"	7.0

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

POF



Description

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

The fiber optic contacts are designed to accommodate:

- Plastic optical fiber (POF) 0.039" (1) core and 0.086" (2.2) jacket

Typical features and benefits are:

- Socket contact is spring loaded to avoid any air gap between the two optical faces.
- High precision pieces provide low insertion loss.
- We can provide custom harness solutions for specific customer requirements including single jumpers, multiways harness and active device housings.

Technical specifications

Performance

- Fiber type: POF
- Wave length: 650 nm
- Optical insertion loss (typ.): 2 dB max.
- Jacketed external diameter: 0.086" (2.2)
- Temperature range: -25°C to +70°C
- Cable retention: 49N
- Mating cycles without cleaning: 48
- 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, UTGX, UTS, UTSX, UTO and UTL.

Ordering information

Plastic optical fiber contact

Male contact	Female contact
RMP0F1000	—

Plastic optical fiber tools

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 number	Descriptions
80WD0005	Stripping tool
80WD0025	Automatic stripping tool for Ø 0.196" (0.5), 0.023" (0.6), 0.027" (0.7) and 0.149" (3.8)
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 number	Descriptions
80WG0010	Needle
80WG0015	Capsule
80WG0016	Syringe
80WN0005	Dry air spray
80WN0006	Optical paper
80WN0012	Dropper bottle
80WN0008	Wiping solvent

Crimping tools for standard contacts

Contact size	Part number	Head*	Handles*	Extraction tools
#20 Ø 0.039" (1)	RM/RC 24W3K	S20RCM	SHANGLES	RX20D44
	RM/RC 20W3K	S20RCM	SHANGLES	RX20D44
	RM/RC 18W3K	S20RCM	SHANGLES	RX20D44
	SM 24WL3S*(1)	S20SCM20	SHANGLES	RX20D44
	SC 24WL3S*(1)			
	SM/SC 20WL3S*(1)	S20SCM20	SHANGLES	RX20D44
#16 Ø 0.062" (1.6)	RM/RC 28M1*	S16RCM20	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 24M9*	S16RCM20	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 20M13*	S16RCM20	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 20M12*	S16RCM20	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 16M23*	S16RCM16	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 14M30*	S16RCM14	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 24ML1*(1)	S16SCM20	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 20ML1*(1)	S16SCM20	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 16ML1*(1)	S16SCLM1	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 14ML1*(1)	S16SCLM1	SHANGLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 16ML11*(1)	S16SCLM11	SHANGLES	RX2025GE1 or RX2031J long endurance tool

(1) loose contact

*endurance of SHANGLES and Head tools = 48,000 cycles

Contact size	Part number	Tool with separate locator		Extraction tools
		Hand tool	Positioner + locator setting	
#12 Ø 0.094" (2.4)	82911457N* / 82911456*	M317	VGE10077A 1/2	51060210924
	82911459N* / 82911458*	M317	VGE10077A 2	51060210924
	82911461N* / 82911460*	M317	VGE10077A 2	51060210924
	82911463N* / 82911462*	M317	VGE10077A 3	51060210924
	82911465N* / 82911464*	M317	VGE10077A 3	51060210924
	82911467N* / 82911466*	M317	VGE10077A 4	51060210924
#8 Ø 0.141" (3.6)	82913601A / 82913600A	M317	VGE10078A 3	51060210936
	82913603A / 82913602A	M317	VGE10078A 3	51060210936
	82913605A / 82913604A	M317	VGE10078A 4	51060210936
	82913607A / 82913606A	M317	VGE10078A 5	51060210936
	82913609A / 82913608A	M317	VGE10078A 6/7	51060210936

* see Page 199 for plating options and other contact details

Crimping tools for specific contacts (First mate, last break contacts)

Contact size	Part number*	Tool with separate locator		Extraction tools
		Hand tools (SHANGLES) Head	Positioner + locator setting	
#16 Ø 0.094" (1.6) Longer RM contact	RM28M1GE1K	S16RCM20	MH860 MH86186 4/6	RX2025GE1 or RX2031J long endurance tool
	RM24M9GE1K	S16RCM20	MH860 MH86186 5/6	RX2025GE1 or RX2031J long endurance tool
	RM16M23GE1K RM20M12GE1K	S16RCM16	MH860 MH86186 6/8	RX2025GE1 or RX2031J long endurance tool
	RM14M30GE1K	S16RCM14	M317 UH25 3	RX2025GE1 or RX2031J long endurance tool
#16 Ø 0.094" (1.6) Shorter RC contact	RC28M1GE7K	S16RCM20	MH860 MH86164G 4/6	RX2025GE1 or RX2031J long endurance tool
	RC24M9GE7K	S16RCM20	MH860 MH86164G 5/6	RX2025GE1 or RX2031J long endurance tool
	RC20M13GE7K RC20M12GE7K	S16RCM20	MH860 MH86164G 5/7	RX2025GE1 or RX2031J long endurance tool
	RC16M23GE7K	S16RCM16	MH860 MH86164G 6/8	RX2025GE1 or RX2031J long endurance tool
	RC14M30GE7K	S16RCM14	M317 UH25 3	RX2025GE1 or RX2031J long endurance tool

* see Page 202 for plating options and other contact details

Coaxial contacts

Please consult us.

M20S-1J crimp tool

Contact part number					M20S-1J			
Contact size	Pin	Socket	Cable type	Notes	Die	Stop bushing	Die kit (die + stop bushing)	PG check-gauge for die
#16 (Ø 1.6mm)	RM28M1*	RC28M1*	AWG 30-28	N/A	S-9K 1	SL-40K	N/A	PG-246-1K
	RM24M9*	RC24M9*	AWG 24	N/A	S-9K 1	SL-40K	N/A	PG-246-1K
	RM24M9*	RCS24M9*	AWG 24	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M14*	RC20M14*	AWG 22-20	N/A	S-10JK	SL-40K	N/A	PG-246K
	RM20M14*	RCS20M14*	AWG 22-20	N/A	S-10JK	SL-40K	N/A	PG-246K
	RM20M13*	RC20M13*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M13*	RCS20M13*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M12*	RC20M12*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM20M12*	RCS20M12*	AWG 22-20	N/A	S-10K	SL-40K	N/A	PG-246K
	RM16M23*	RC16M23*	AWG 20-16	N/A	S-3D1K	SL-39K	N/A	PG-214K
	RM16M23*	RCS16M23*	AWG 20-16	N/A	S-3D1K	SL-40K	N/A	PG-214K
	RM14M50*	RC14M50*	AWG 16-14	N/A	S-3-14K	SL-40K	N/A	PG-246-2K
	RM14M50*	RCS14M50*	AWG 16-14	N/A	S-3-14K	SL-40K	N/A	PG-246-2K
	RM14M30*	RC14M30*	AWG 14	N/A	N/A			
	RMDXK-1JG, (S)YOC-074J RFD26L-1D28	RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG161/U, RG179B/U, RG187A/U	INNER CONTACT (RFD26L-1D28/((S)RM-D26L-1JD28,))	S-23D2	SL-46D2K	N/A	PG-266
	RMDXK-1JG, (S)YOC-074J RFD26L-1D28	RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG161/U, RG179B/U, RG187A/U	OUTER CONTACT (RM-DX602D28/RCDX602D28)	S-68J	SL-92K	N/A	PG-297
	RMDXK-1JG, (S)YOC-074J RFD26L-1D28	RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG174/U, RG188A/U	INNER CONTACT (RFD26L-1D28/((S)RM-D26L-1JD28,))	S-26D2	SL-46D2K	N/A	N/A
	RMDXK-1JG, (S)YOC-074J RFD26L-1D28	RCDXK-1JG ((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28)	RG174/U, RG188A/U	OUTER CONTACT (RM-DX602D28/RCDX602D28)	S-68J	SL-92K	N/A	PG-297
	RMDXK-10 ((S)YOC-074J, RFD26L-1D28, RMDX60-2D28, RMDXB055-3)	RCDXK-1((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28, RCDXB055-1)	RG178B/U, RG196A/U	INNER CONTACT (RFD26L-1D28/((S)RM-D26L-1JD28,))	S-23D2	SL-46D2K	N/A	PG-266
		RCDXK-1((S)RM-D26L-1JD28, (S)YOC-074J, RCDX60-2D28, RCDXB055-1)	RG178B/U, RG196A/U	OUTER CONTACT (RM-DX602D28/RCDX602D28)	S-68J	SL-92K	N/A	PG-297
	RMDXK-J20	RCDXK-J2	#26 twist pair 2-7/0.16, #24 twist pair 2-7/0.2, 2-1/0.5	INNER CONTACT	S-26D2	SL-46D2K	N/A	N/A
	RMDXK-J20	RCDXK-J2	#26 twist pair 2-7/0.16, #24 twist pair 2-7/0.2, 2-1/0.5	OUTER CONTACT	S-68J	SL-92K	N/A	PG-297
	RMDX6032D28	RCDX6032D28	see Page 167	MONOCRIMP	S-80J	SL-105K	N/A	N/A
	RMDX6036D28	RMDX6036D28	see Page 167	MONOCRIMP	S-80J	SL-105K	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG161U, RG179, RG187U, RG178A/U, RG196U	INNER CONTACT	S-23D2	SL-46D2K	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG161U, RG179, RG187U, RG178A/U, RG196U	OUTER CONTACT	S-22-1J	SL-47-1J	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG188/U, RG174/U	INNER CONTACT	S-26D2	SL-46D2K	N/A	N/A
	RMDXK10D28	RCDXK1D28	RG188/U, RG174/U	OUTER CONTACT	S-22-1J	SL-47-1J	N/A	N/A
#12 (Ø2.4mm)	82911459N*	82911458*	AWG 20	N/A	N/A		S8291-2AKIT	PG-8291-2K
	82911461N*	82911460*	AWG 18	N/A	N/A		S8291-2AKIT	PG-8291-2K
	82911463N*	82911462*	AWG 16	N/A	N/A		S8291-3AKIT	PG-8291-3K
	82911465N*	82911464*	AWG 14	N/A	N/A		S8291-3AKIT	PG-8291-3K
	82911467N*	82911466*	AWG 12	N/A	N/A		S8291-4AKIT	PG-8291-4K
	82911467N*	82911466*	AWG 12	N/A	N/A		S8291-4AKIT	PG-8291-4K
#8 (Ø3.6mm)	82913601A	82913600A	AWG 16	N/A	N/A		S8291-3BKIT	PG-8291-3K
	82913603A	82913602A	AWG 14	N/A	N/A		S8291-3BKIT	PG-8291-3K
	82913605A	82913604A	AWG 12	N/A	N/A		S8291-4BKIT	PG-8291-4K
	82913607A	82913606A	AWG 10	N/A	N/A		S8291-5BKIT	PG-8291-5K

1. When crimping RC/RCS/RM24-9* if the insulator diameter is smaller than 1.4mm, use S-9 or S-9K

Souriau UTSX series

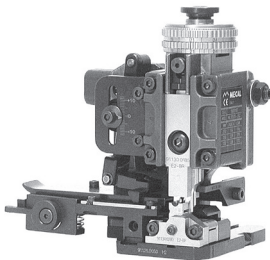
Tooling

Automatic crimping tools

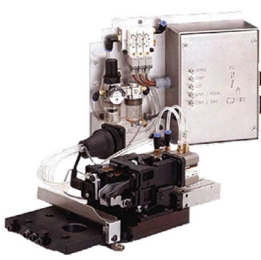
Contact Mecal for semi-automatic production tools.

Mecal sales network:

www.mecal.net



Min Applicator



Stripper



Presses

Extraction tool



RX20D44



51060210924



RX2031J



RX2025GE1



51060210936

Contact size	Part number
#20	RX20D44
#16	RX2025GE1
#16 Long endurance tool	RX2031J
#12	51060210924
#8	51060210936

Contact extraction instruction



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

Wire stripping crimp version

Machined contact



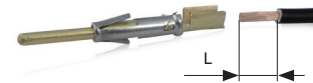
Contact size	Part number		Stripping length L	
	Male	Female	inch	mm
#20 Ø 0.039" (1)	RM24W3- / RM20W3- RM18W3-	RC24W3- / RC20W3- RC18W3-	0.188"	4.8
#16 Ø 0.062" (1.6)	RM28M1- / RM24M9- RM20M13- / RM20M12-	RC28M1- / RC24M9- RC20M13- / RC20M12-	0.188"	4.8
	RM16M23- / RM14M30-	RC16M23- / RC14M30-	0.279"	7.1
#8 Ø 0.141" (3.6)	82913601- / 82913603- 82913605- / 82913607-82913609-	82913600- / 82913602-82913604- / 82913606- 82913608-	0.255" to 0.295"	6.5 to 7.5

Stamped and formed with insulation support



Contact size	Part number		Stripping length L	
	Male	Female	inch	mm
#20 Ø 0.039" (1)	SM24W3- / SM24WL3- SM20W3- / SM20WL3-	SC24W3- / SC24WL3- SC20W3- / SC20WL3-	0.157"	4
#16 Ø 0.062" (1.6)	SM24M1- / SM24ML1- SM20M1- / SM20ML1-	SC24M1- / SC24ML1- SC20M1- / SC20ML1-	0.157"	4
	SM16M11- / SM16ML11-	SC16M11- / SC16ML11-	0.183"	4.65

Stamped and formed without insulation support



Contact size	Part number		Stripping length L	
	Male	Female	inch	mm
#16 Ø 0.062" (1.6)	SM16M1- / SM16ML1-	SC16M1- / SC16ML1-	0.250"	6.35
	SM14M1- / SM14ML1-	SC14M1- / SC14ML1-	0.250"	6.35

Power contacts



Contact size	Part number		Stripping length L	
	Male	Female	inch	mm
#12 Ø 0.094" (2.4)	82911457- / 82911459-82911461- / 82911463-82911465- / 82911467-	82911456- / 82911458-82911460- / 82911462-82911464- / 82911466-	0.275" to 0.314"	7 to 8
#8 Ø 0.141" (3.6)	82913601- / 82913603-82913605- / 82913607-82913609-	82913600- / 82913602-82913604- / 82913606-82913608-	0.255" to 0.295"	6.5 to 7.5

Note: See Page 199 for plating options and other contact details

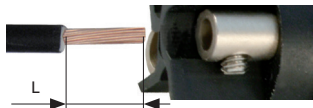
Wire stripping solder and screw versions

Solder contact delivered with connector



Contact size	Stripping length L	
	inch	mm
#16 / Ø 0.062" (1.6) and #20 / Ø 0.039" (1)	0.196"	5

Screw contact delivered with connector



Contact size	Stripping length L	
	inch	mm
#16 / Ø 0.062" (1.6)	0.228"	5.8

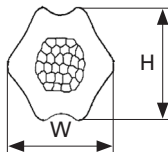
Dimensions in inches (millimeters)

Crimping

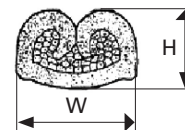
One of the key factors which affects the performance of a connector is the way contacts are terminated. Crimped connections are nowadays seen as the best solution to ensure quality throughout the lifetime of the product.



Machined contact



Stamped and formed contact



Active contact part	Contact type	Die location on heads	Wire section range	Section inch ²	mm ²	Tensile straight test (min)	Height W ±0.002" (±0.075)		Width W ±0.002" (±0.075)		Tooling head part number
							inch	mm	inch	mm	
Machined contacts size #20 Ø 0.039" (1)	RM24W3K RC24W3K	26/24	26 AWG	0.004" min	0.12 min	15 N	0.037"	0.95	0.05"	1.27	S20RCM
		26/24	24 AWG	0.009" max	0.25 max	32 N	0.037"	0.95	0.05"	1.27	S20RCM
	RM20W3K RC20W3K	22/20	22 AWG	0.012" min	0.32 min	40 N	0.049"	1.26	0.070"	1.78	S20RCM
			20 AWG	0.019" max	0.50 max	60 N	0.049"	1.26	0.070"	1.78	S20RCM
	RM18W3K RC18W3K	20/18	20 AWG	0.019" max	0.50 max	60 N	0.053"	1.35	0.073"	1.86	S20RCM
S and F contacts size #20 Ø 0.039" (1)	SM24WL3TK6* SC24WL3TK6*	26/24	26 AWG	0.004" min	0.12 min	15 N	0.031"	0.80	0.058"	1.49	S20SCM20
		26/24	24 AWG	0.009" max	0.25 max	32 N	0.031"	0.80	0.058"	1.49	S20SCM20
	SM20WL3TK6* SC20WL3TK6*	22/20	22 AWG	0.012" min	0.32 min	40 N	0.039"	1.01	0.060"	1.53	S20SCM20
		22/20	20 AWG	0.019" max	0.50 max	60 N	0.039"	1.01	0.060"	1.53	S20SCM20
Machined contacts size #16 Ø 0.062" (1.6)	RM28M1K* RC28M1K*	30/28	30 AWG	0.002" min	0.05 min	11 N	0.044"	1.14	0.055"	1.41	S16RCM20
		30/28	28 AWG	0.003" max	0.08 max	6 N	0.044"	1.14	0.055"	1.41	S16RCM20
	RM24M9K* RC24M9K*	26/24	26 AWG	0.004" min	0.12 min	15 N	0.045"	1.15	0.055"	1.41	S16RCM20
		26/24	24 AWG	0.009" max	0.25 max	32 N	0.045"	1.15	0.055"	1.41	S16RCM20
	RM20M13K* RC20M13K*	22/20	22 AWG	0.012" min	0.32 min	40 N	0.049"	1.26	0.069"	1.76	S16RCM20
		22/20	20 AWG	0.019" max	0.50 max	60 N	0.049"	1.26	0.069"	1.76	S16RCM20
	RM20M12K* RC20M12K*	22/20	22 AWG	0.012" min	0.32 min	40 N	0.049"	1.26	0.069"	1.76	S16RCM20
		22/20	20 AWG	0.019" max	0.50 max	60 N	0.049"	1.26	0.069"	1.76	S16RCM20
	RM16M23K* RC16M23K*	18	18 AWG	0.032" max	0.82 max	90 N	0.070"	1.80	0.089"	2.28	S16RCM16
		16	16 AWG	0.059" max	1.50 max	150 N	0.077"	1.96	0.095"	2.43	S16RCM16
S and F contacts size #16 Ø 0.062" (1.6)	SM24ML1TK6* SC24ML1TK6*	26/24	26 AWG	0.004" min	0.12 min	15 N	0.033"	0.84	0.059"	1.50	S16SCM20
		26/24	24 AWG	0.009" max	0.25 max	32 N	0.033"	0.84	0.059"	1.50	S16SCM20
	SM20ML1TK6* SC20ML1TK6*	22/20	22 AWG	0.012" min	0.32 min	40 N	0.040"	1.02	0.060"	1.54	S16SCM20
		22/20	20 AWG	0.019" max	0.50 max	60 N	0.040"	1.02	0.060"	1.54	S16SCM20
	SM16ML11TK6* SC16ML11TK6*	18	18 AWG	0.032" min	0.82 min	90 N	0.051"	1.32	0.082"	2.09	S16SCML11
		16	16 AWG	0.059" max	1.50 max	150 N	0.053"	1.36	0.082"	2.10	S16SCML11
	SM16ML1TK6* SC16ML1TK6*	18	18 AWG	0.032" min	0.82 min	90 N	0.058"	1.149	0.079"	2.02	S16SCML1
		16	16 AWG	0.059" max	1.50 max	150 N	0.066"	1.70	0.080"	2.05	S16SCML1
	SM14ML1TK6* SC14ML1TK6*	14	14 AWG	0.098" max	2.50 max	230 N	0.070"	1.79	0.101"	2.58	S16SCML1

* example of plating, for other plating see **Page 127**

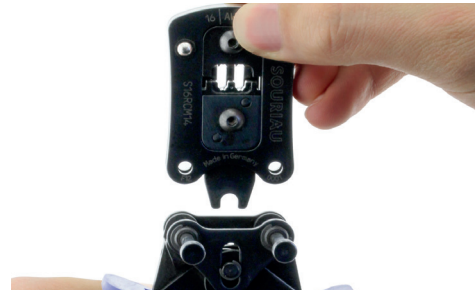
Note: Assembly operations mentioned above shall not interfere with or be in contradiction with the IPC-WHMA-A-620B

Dimensions in inches (millimeters)

Crimping tooling



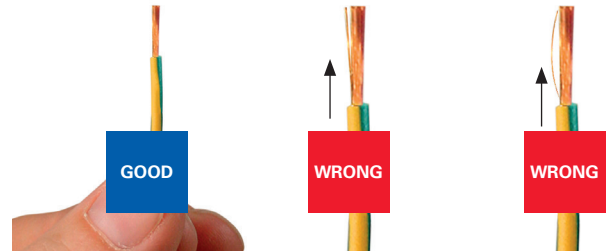
1) Fully close then release the tool, keep it open.
Open the two pins.



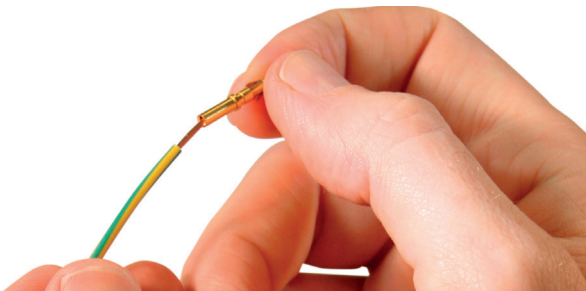
2) Choose the adapter head (sold separately). Keep vertical and slide it into the handle until the mechanical stop.



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



4) Strip the cable properly by checking the recommended size in the catalog on Page 212.



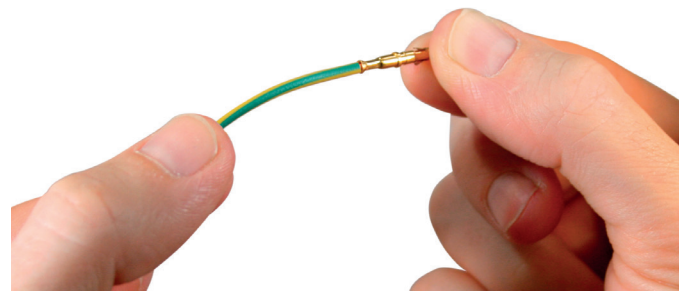
5) Place conductors, with no deterioration, in the contact bucket. All strands to be located in the crimp bucket.



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



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



8) Control the quality of crimping (see Page 213).

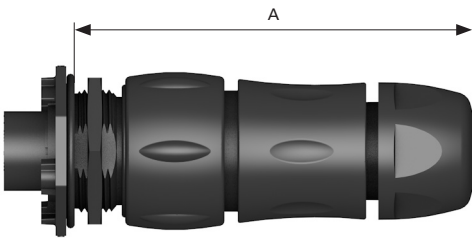
Note: Assembly operations mentioned above shall not interfere or to be in contradiction with the IPC-WHMA-A-620B

Souriau UTSX series

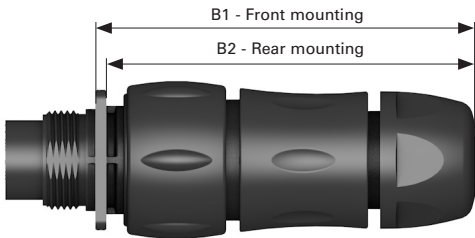
Dimensions

Mated connector lengths

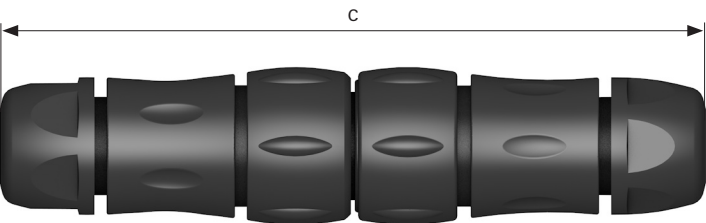
UTSX7 + UTSX6JC



UTSX0 + UTSX6JC



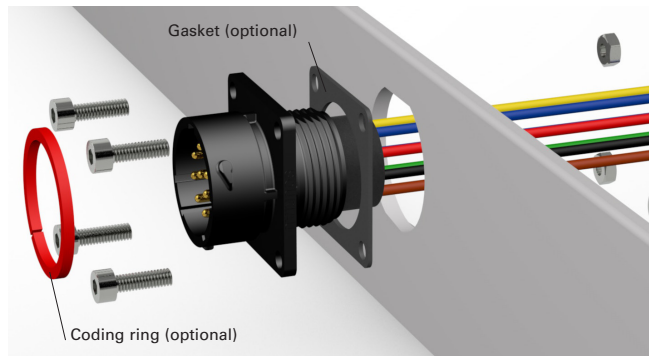
UTSX1JC + UTSX6JC



Shell size	UTSX7 + UTSX-6JC A max		UTSX0 + UTSX-6JC B1 max		B2 max		UTSX1JC + UTSX6JC C max	
	inch	mm	inch	mm	inch	mm	inch	mm
10	2.992"	74	2.836"	72	2.736"	69.5	5.196"	132
12	3.110"	79	2.952"	75	2.874"	73	5.433"	138
14	3.366"	85.5	3.208"	81.5	3.110"	79	5.925"	150.5
16	3.661"	93	3.464"	88	3.386"	86	6.457"	164
18	3.858"	98	3.701"	94	3.622"	92	6.850"	174

UTSX0 or UTSX0JC assembly (mounting suggestion)

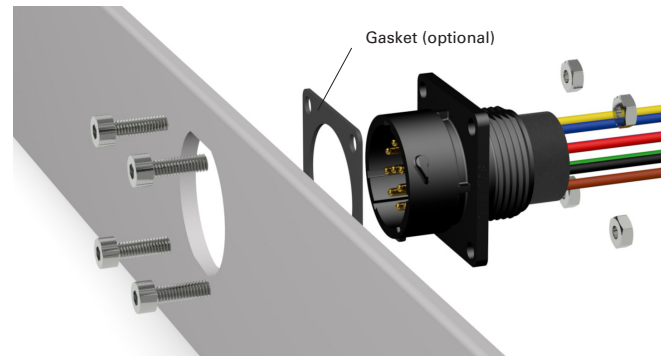
- Strip wires, crimp or solder contacts (see **Pages 212 and 213**)
- Insert contacts into connector cavities (insert manually or use tool RTM205 crimp contacts)
- Place receptacle in the panel cut-out
- Secure receptacle with screws (not supplied)
- Tighten screws: M2.5 (recommended torque: see table below)
- Warning: to prevent any mating issue with the plug counterpart, take into account the following dimensions of screw heads and panel thickness
- For complete sealing of the system use optional gasket and sealed screw solution (not sold by Eaton).

Front mounting

A large screw head diameter may be limit the height of the screw head: $>\varnothing 0,157" \times 0,078"$ (4.5x2.5) max

Receptacle flange

Panel

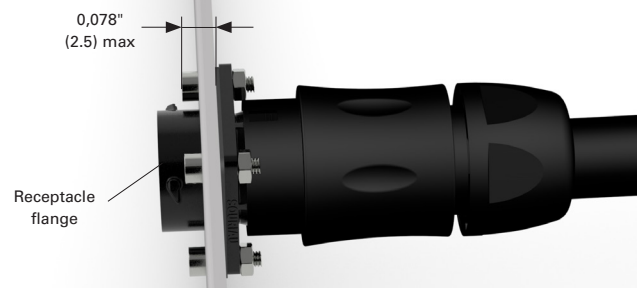
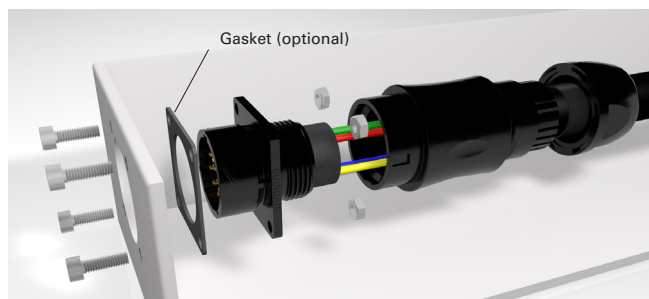
Rear mounting

A large screw head diameter may be limit the height of the screw head: $>\varnothing 0,157" \times 0,078"$ (4.5x2.5) max

Receptacle flange

Panel

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

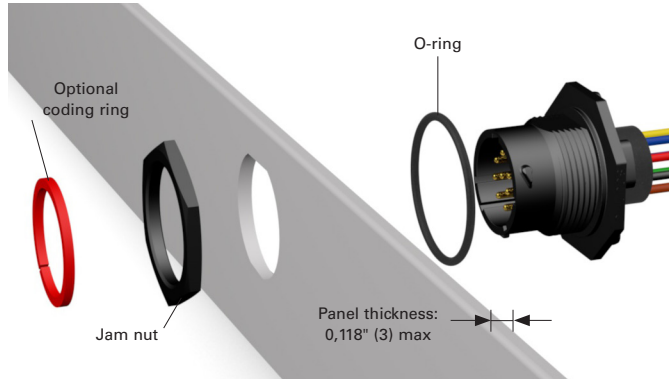
UTSX0JC rear mounting

Dimensions in inches (millimeters)

UTSX7 assembly (mounting suggestion)

- Strip wires and crimp contacts (see **Pages 212 and 213**)
- 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

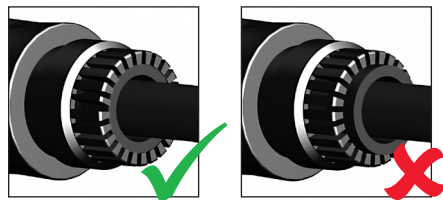
Crimp or solder version



Shell size	Jam nut torque (Nm) max	Exterior jam nut dim.		Ø Wire Standard version max		Discrete wire sealing	
		inch	mm	inch	mm	inch	mm
10	3	0.874"	20.2	1.125"	3.2		
12	4	1.062"	27.0	1.125"	3.2		
14	5	1.185"	30.1	1.125"	3.2	From 0.066"	From 1.7 to
16	5	1.311"	33.3	1.125"	3.2	to 0.118"	3.0
18	5	1.438"	36.5	1.125"	3.2		

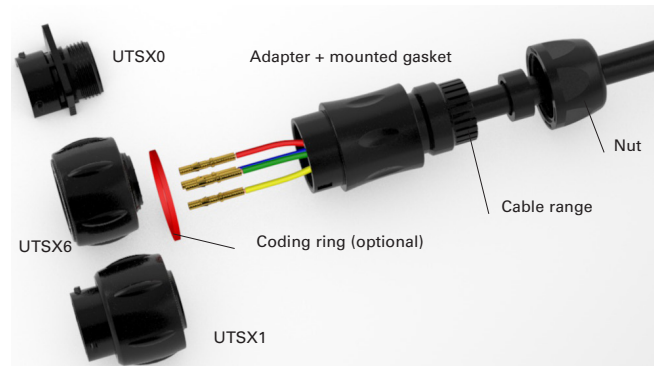
UTSX0JC, UTSX1JC or UTSX6JC assembly: crimp version

- Slide accessories onto the cable

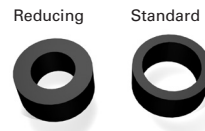


Make sure the seal is positioned as shown.

- Mate the plug with a corresponding counter part
- Strip external cable jacket
- Strip wires and crimp contacts (see **Pages 140 and 141**)
- Insert contacts into connector cavities (insert manually or use tool RTM205)
- Tighten adapter with plug UTSX6 or receptacle UTSX1, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTSX1 or UTSX6 (recommended torque values to be applied according to table below)
- Caution: only one of the two gaskets included should be used!



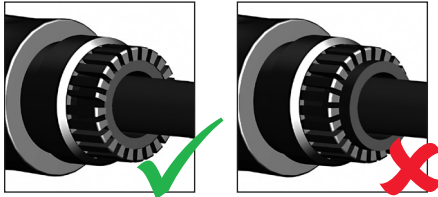
Cable ranges



Shell size	Recommended jacket strip length				Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal		Ø Cable range Reducing seal		Ø Wire	
	Male inch	mm	Female inch	mm			inch	mm	inch	mm	inch	mm
10	0.826"	21	1.141"	29	1.5	1	0.098"/0.314"	2.5/8.0	0.059"/0.196"	1.5/5.0		
12	0.984"	25	1.299"	33	2.5	2	0.196"/0.472"	5.0/12.0	0.118"/0.354"	3.0/9.0	From 0.066"	From 1.7 to
14	1.141"	29	1.417"	36	3	2.5	0.275"/0.551"	7.0/14.0	0.196"/0.472"	5.0/12.0	to 0.118"	to 3.0
16	1.259"	32	1.574"	40	2	3.5	0.472"/0.630"	12.0/16.0	0.354"/0.472"	9.0/12.0		
18	1.259"	32	1.574"	40	2.5	3.5	0.512"/0.709"	13.0/18.0	0.433"/0.590"	11.0/15.0		

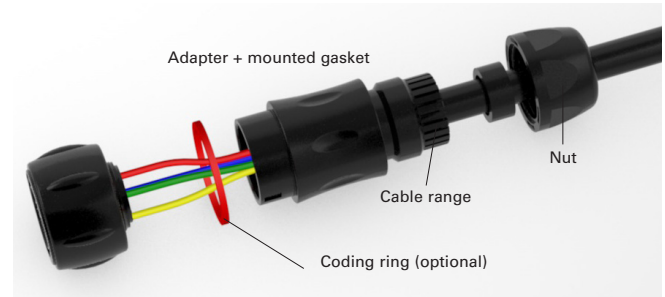
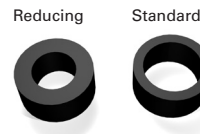
UTSX6JC assembly: solder version

- Slide accessories onto the cable



Make sure the seal is positioned as shown.

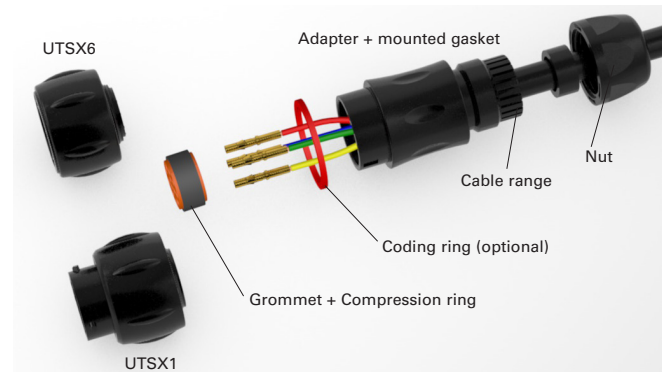
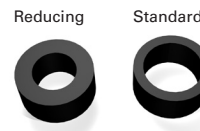
- Mate the plug with a corresponding receptacle
- Strip external cable jacket (see **Pages 212 and 213**)
- Solder contacts
- Tighten adapter with plug, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTSX6 (recommended torque values to be applied according table to the right)
- Caution: only one of the two gaskets included should be used!

**Cable ranges**

Shell size	Recommended jacket strip length Male		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal		Ø Cable range Reducing seal		Ø Wire	
	inch	mm			inch	mm	inch	mm	inch	mm
10	0.826"	21	1.5	1	0.098"/0.314"	2.5/8.0	0.059"/0.196"	1.5/5.0		
12	0.984"	25	2.5	2	0.196"/0.472"	5.0/12.0	0.118"/0.354"	3.0/9.0	From 0.066"	From 1.7
14	1.141"	29	3	2.5	0.275"/0.551"	7.0/14.0	0.196"/0.472"	5.0/12.0	to 0.118"	to 3.0
16	1.653"	42	2	3.5	0.472"/0.630"	12.0/16.0	0.354"/0.472"	9.0/12.0		
18	1.653"	42	2.5	3.5	0.512"/0.709"	13.0/18.0	0.433"/0.590"	11.0/15.0		

UTSX1GJC or UTSX6GJC 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 212 and 213**)
- 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 UTSX6 or receptacle UTSX1, choose correct seal
- Tighten the nut to rear of either UTSX1 or UTSX6 (recommended torque values to be applied according to the table right).

**Cable ranges**

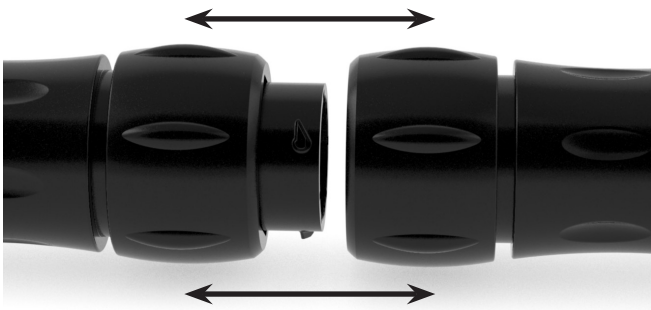
Shell size	Recommended jacket strip length				Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal		Ø Cable range Reducing seal		Ø Wire	
	Male inch	Male mm	Female inch	Female mm			inch	mm	inch	mm	inch	mm
10	0.826"	21	1.141"	29	1.5	1	0.098"/0.314"	2.5/8.0	0.059"/0.196"	1.5/5.0	From 0.066"	From 1.7
12	0.984"	25	1.299"	33	2.5	2	0.196"/0.472"	5.0/12.0	0.118"/0.354"	3.0/9.0	to 0.118"	to 3.0
14	1.141"	29	1.417"	36	3	2.5	0.275"/0.551"	7.0/14.0	0.196"/0.472"	5.0/12.0		
16	Not available. Please consult us.											
18	Not available. Please consult us.											

UTSX coupling procedure

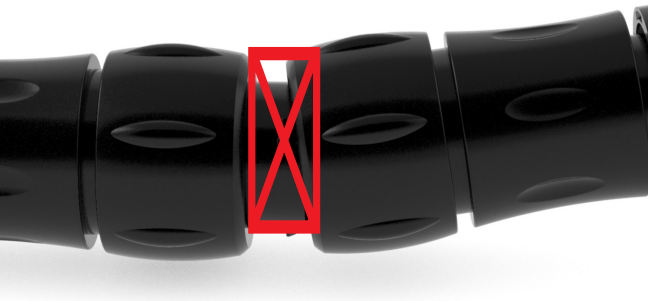
The pictures below provides step by step instructions on how to mate a plug and receptacle connector in order to avoid damaging any of the contacts.



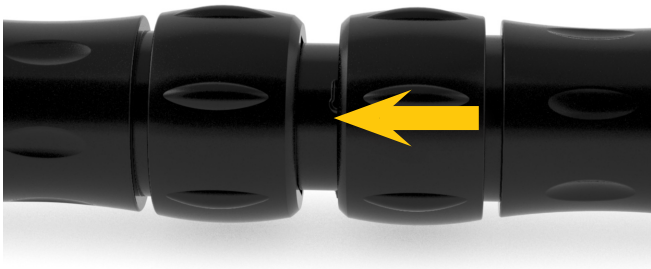
1 - Identify the primary key of each connector.



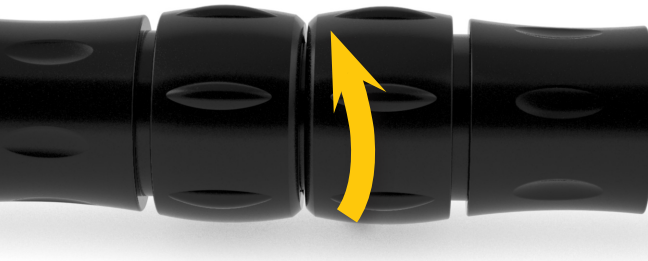
2 - Align the primary keys of the connectors.



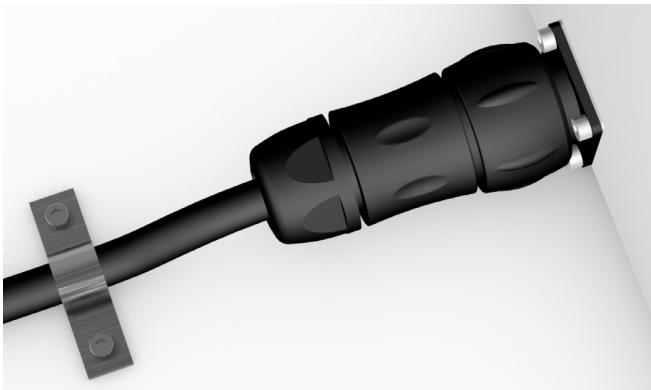
3 - Non correct positioning:



4 - Offer the plug to the receptacle.



5 - Turn coupling ring until you hear a 'click'



6 - Example of installation

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

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 and Fig.2). Wire size plays an important role in dissipating heat and avoiding overheating (Fig.1 and 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.

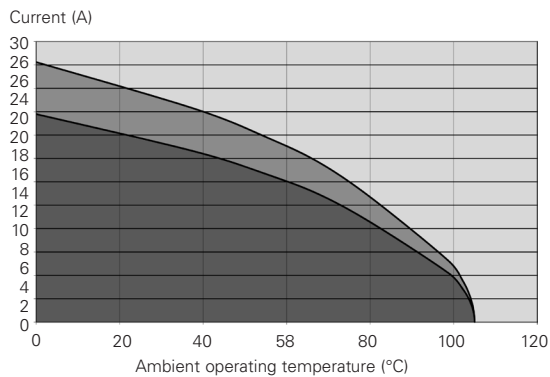


Fig.1: UTSX 12-4 – 16 AWG

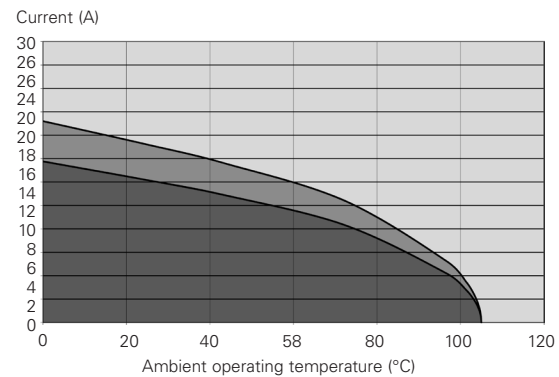


Fig.2: UTSX 12-8 – 16 AWG

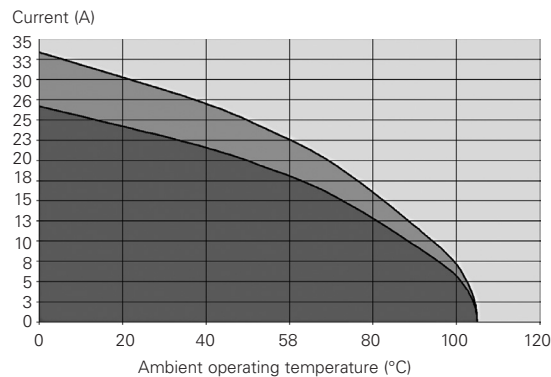
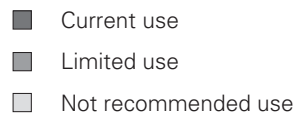


Fig.3: UTSX 12-4 – 20 AWG



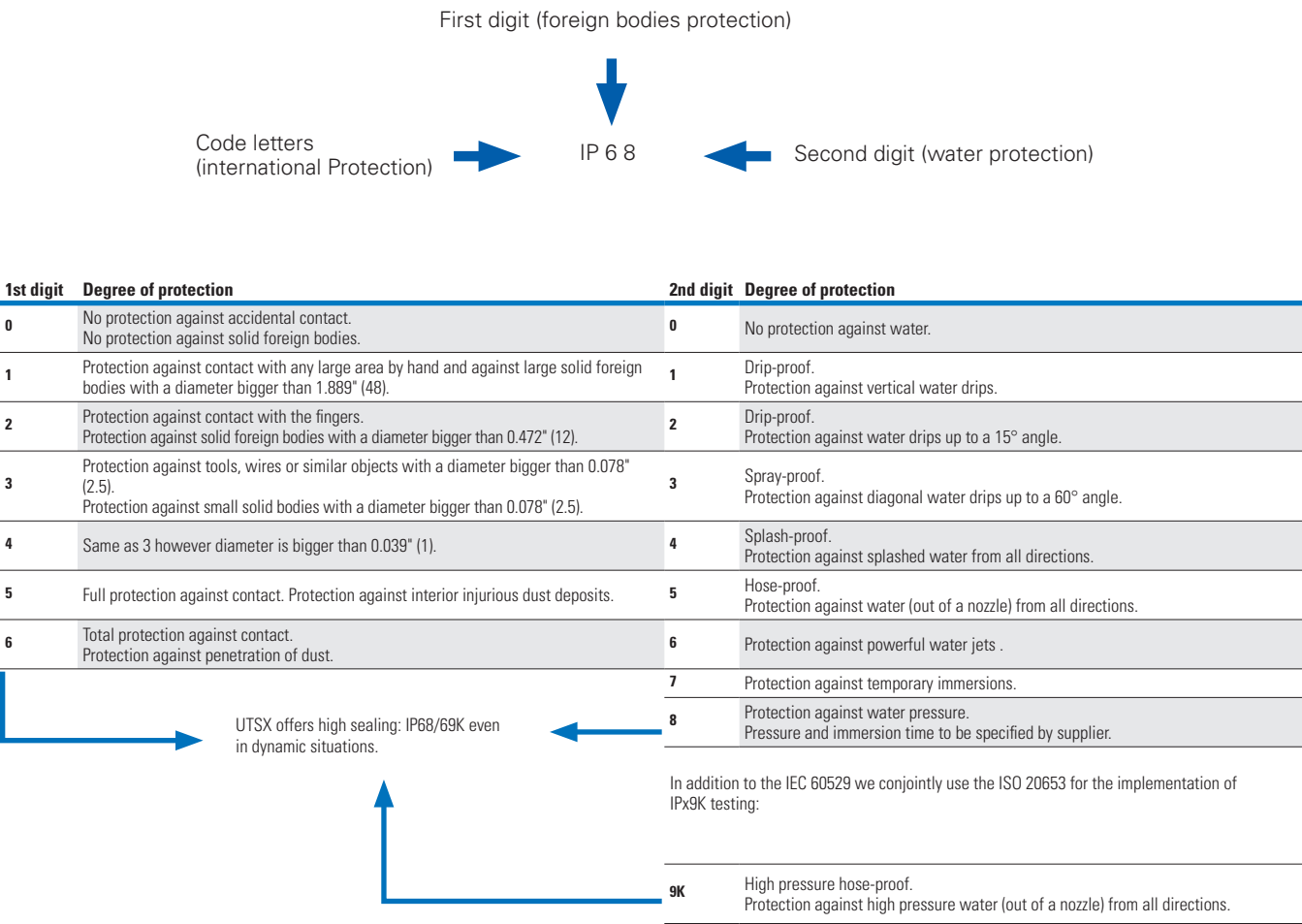
The rated current is defined as uninterrupted continuous current that a connector can take when all contacts are energized simultaneously without exceeding the maximum limit of temperature. The earth contact is never loaded.

UV resistance

Plastics can be susceptible to extreme degradation over time. The UTSX series is made with (f1) material according to UL746C. The UTSX material withstand a 1,000 h UV exposure according ISO4892 without significant color variation, cracking or variation of mechanical properties.

Protection provided by an enclosure

For safety reasons, electrical equipment needs to be protected against outside influences. The basis for the determination is the standard IEC 60529. IP is a coding system that provides information regarding the accessibility of live parts against ingress of water or other foreign bodies.



Ethernet basics

To understand Ethernet theory, a functional comparison to a busy city with highways, buildings and cars is often used. The table below provides the correlation between the different components/pieces/links that encompass Ethernet network connectivity, and the larger scale infrastructure of a metropolitan city.

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

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.

Ethernet connectors

To understand the differences between 100Mhz, 100 Base TX and Cat5e/Cat6, the comparison to the city is helpful.

- 100Mhz is a measurement of frequency for the signal, comparable to the speed limit on 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.

Specifying Ethernet connectors and contacts

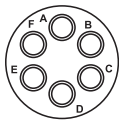
In connectors and cables, Fast Ethernet uses two pairs, one for transmit and one for receive. This way data traffic can flow in both directions simultaneously. To carry 100Mb/s data signals, 100BaseTX or Fast Ethernet, it is recommended to use Cat5e connectors as well as Cat5e cables with the support of a 100MHz signal. However, a 100Mb/s signal can be transmitted in certain conditions: short distance, only one connector, lower frequency, and so does not necessarily need to be Cat5e rated.

Ethernet twisted pairs carry a symmetrical (balanced) signal. With coax contacts, the inner core will be shield, but not the other core. This will result in an unbalanced signal due to electromagnetic interferences. Coax contacts will not work correctly and are not recommended.

Quadrax contacts are used in railway applications because of the use of quad cables. In this specific industry, the standard Ethernet twisted pair cables cannot be used as they are too thin and usually solid, not stranded. In other industries, UTP (Unshielded Twisted Pair) cables are widely used. Quadrax contacts are not designed to terminate UTP cables and are not recommended.

Standard offering

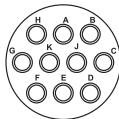
Standard solutions



106* - 10E6/10D6
4.5A 250V 6A 250V
6 contacts #20 Ø
0.039" (1)

UTSX size 10, 6 contacts

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



1210 - 12E10/12D10
4.5A 250V 10 contacts
#20 Ø 0.039" (1)

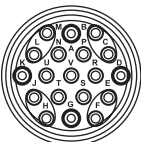
UTSX size 12, 10 contacts

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

Shielding continuity done in cavity CandF.

Note: *Shielding can be replaced by DC power.

UTSX 14-19 used for Ethernet



- Twisted pairs
- GND

The UTSX layout 14-19 has been evaluated and approved for use as an Ethernet connection in the following configuration:

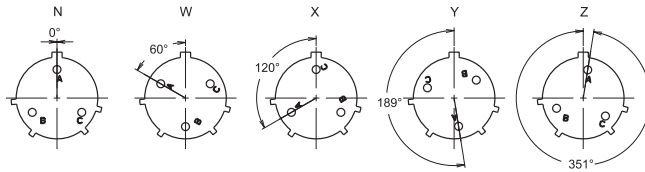
- Using Cat6A cables, with 9m of cable between each connector
- The cable was terminated as pictured

Based on the test results, the insertion loss, return loss, NEXT and ACR-N pass the Channel Class Ea Ethernet requirements, which defines the maximum data rate as 10 Gbps.

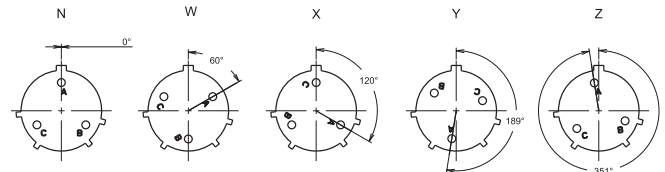
Please note, the results pass the 10 Gbps data rate, but have only been tested with a distance of 9m, and can be validated for up to 20m.

The UTSX series has layouts with discrimination keys, which help avoid mismatching when operators mate the connectors.

This safety feature is particularly important when similar connectors are placed next to each other. Mismatching connectors can lead to serious problems including system failures and even physical injury.



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



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. **UTSX6JC104S** (N key) → **UTSX6JC104SW** (W key)

Consult us for overmolded harnesses.

Shell size	Layout	Discrimination keys degrees			
		W	X	Y	Z
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	60°	155°	270°	295°
	12E10/12D10	60°	155°	270°	295°
	12E14/12D14	45°	—	—	—
14	14E5/14D5	40°	92°	184°	273°
	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°	—

Shell size	Layout	Discrimination keys degrees			
		W	X	Y	Z
16	1619	30°	165°	—	315°
	1626 16E26/16D26	60°	—	275°	338°
	163G1	25°	135°	—	—
	165	25°	135°	—	—
	169	30°	125°30'	—	—
	1613	25°	125°30'	—	—
	16E8/16D8	54°	152°	180°	331°
18	16E23/16D23	158°	270°	—	—
	1823	—	158°	—	270°
	1832 18E32/18D32	85°	138°	222°	265°
	186	30°	135°	—	—
	187G1	25°	140°	—	—
	1813	25°	135°	—	—
	18E11/18D11	62°	119°	241°	340°
	18E30/18D30	180°	193°	285°	350°

SMSPKE0: discrimination pin for male UTSX connectors (#16 contacts only)

An alternative method to prevent mismatches is to employ an SMSPKE0 dummy contact, which can be placed into an unoccupied #16 male contact cavity. This ensures that the UTSX male connector will only connect with a female counterpart that also has an empty contact slot in the corresponding position.



Connectors

Free hanging receptacle with cable gland

UTSX1JC102W2P	45
UTSX1JC102W2S	45
UTSX1JC103P	23
UTSX1JC103S	23
UTSX1JC103W3P	64
UTSX1JC103W3S	64
UTSX1JC104P	50
UTSX1JC104S	50
UTSX1JC106P	70
UTSX1JC106S	70
UTSX1JC1210P	120
UTSX1JC1210S	120
UTSX1JC124P	36
UTSX1JC124PSCR	36
UTSX1JC124S	36
UTSX1JC124SSCR	36
UTSX1JC128P	97
UTSX1JC128S	97
UTSX1JC1412P	129
UTSX1JC1412S	129
UTSX1JC1419P	165
UTSX1JC1419S	165
UTSX1JC142G1P	28
UTSX1JC142G1S	28
UTSX1JC147P	84
UTSX1JC147PSCR	84
UTSX1JC147S	84
UTSX1JC147SSCR	84
UTSX1JC148P	106
UTSX1JC148S	106
UTSX1JC1492P	138
UTSX1JC1492S	138
UTSX1JC1613P	143
UTSX1JC1613S	143
UTSX1JC1619P	170
UTSX1JC1619S	170
UTSX1JC1626P	184
UTSX1JC1626S	184
UTSX1JC163G1P	41
UTSX1JC163G1S	41
UTSX1JC165P	59
UTSX1JC165S	59
UTSX1JC169P	116
UTSX1JC169S	116
UTSX1JC1813P	148
UTSX1JC1813S	148
UTSX1JC1823P	179
UTSX1JC1823S	179
UTSX1JC1832P	193
UTSX1JC1832S	193
UTSX1JC186P	79
UTSX1JC186S	79
UTSX1JC187G1P	93
UTSX1JC187G1S	93

Jam nut receptacle only

UTSX7102W2P	45
UTSX7102W2S	45
UTSX7103P	23
UTSX7103S	23
UTSX7103W3P	64
UTSX7103W3S	64

UTSX7104P	50
UTSX7104S	50
UTSX7106P	70
UTSX7106S	70
UTSX710D6P	70
UTSX710D6P32	70
UTSX710D6S	70
UTSX710D6S32	70
UTSX710D7P	89
UTSX710D7P32	89
UTSX710D7S	89
UTSX710D7S32	89
UTSX710D98P	75
UTSX710D98P32	75
UTSX710D98S	75
UTSX710D98S32	75
UTSX710E6P	70
UTSX710E6S	70
UTSX710E7P	89
UTSX710E7S	89
UTSX710E98P	75
UTSX710E98S	75
UTSX71210P	120
UTSX71210S	120
UTSX7124P	36
UTSX7124P	36
UTSX7124PSCR	36
UTSX7124S	36
UTSX7124S	36
UTSX7124SSCR	36
UTSX7128P	97
UTSX7128S	97
UTSX712D10P	120
UTSX712D10P32	120
UTSX712D10S	120
UTSX712D10S32	120
UTSX712D14P	153
UTSX712D14P32	153
UTSX712D14S	153
UTSX712D14S32	153
UTSX712D2P	19
UTSX712D2P32	19
UTSX712D2S	19
UTSX712D2S32	19
UTSX712D3P	32
UTSX712D3P32	32
UTSX712D3S	32
UTSX712D3S32	32
UTSX712D4P	36
UTSX712D4P32	36
UTSX712D4S	36
UTSX712D4S32	36
UTSX712D8P	102
UTSX712D8P32	102
UTSX712D8S	102
UTSX712D8S32	102
UTSX712E10P	120
UTSX712E10S	120
UTSX712E14P	153
UTSX712E14S	153
UTSX712E2P	19
UTSX712E2S	19
UTSX712E3P	32
UTSX712E3S	32
UTSX712E4P	36
UTSX712E4S	36

Plug only

UTSX61210P	120
UTSX61210S	120
UTSX6124P	36
UTSX6124S	36
UTSX6128P	97
UTSX6128S	97
UTSX612E10P	120
UTSX612E10S	120
UTSX612E14P	153
UTSX612E14S	153
UTSX612E2P	19
UTSX612E2S	19
UTSX612E3P	32
UTSX612E3S	32
UTSX612E4P	36
UTSX612E4S	36
UTSX612E8P	102
UTSX612E8S	102
UTSX61412P	129
UTSX61412S	129
UTSX61419P	165
UTSX61419S	165
UTSX6142G1P	28
UTSX6142G1S	28
UTSX6147P	84
UTSX6147S	84
UTSX6148P	106
UTSX6148S	106
UTSX61492P	138
UTSX61492S	138
UTSX614E12P	134
UTSX614E12S	134
UTSX614E15P	157
UTSX614E15S	157
UTSX614E18P	161
UTSX614E18S	161
UTSX614E19P	165
UTSX614E19S	165
UTSX614E5P	55
UTSX614E5S	55
UTSX614E7P	84
UTSX614E7S	84
UTSX61613P	143
UTSX61613S	143
UTSX61619P	170
UTSX61619S	170
UTSX61626P	184
UTSX61626S	184
UTSX6163G1P	41
UTSX6163G1S	41
UTSX6165P	59
UTSX6165S	59
UTSX6169P	116
UTSX6169S	116
UTSX616E23P	175
UTSX616E23S	175
UTSX616E26P	184
UTSX616E26S	184
UTSX616E8P	112
UTSX616E8S	112
UTSX61813P	148
UTSX61813S	148
UTSX61823P	179
UTSX61823S	179
UTSX61832P	193

UTSX61832S	193
UTSX6186P	79
UTSX6186S	79
UTSX6187G1P	93
UTSX6187G1S	93
UTSX618E11P	125
UTSX618E11S	125
UTSX618E30P	189
UTSX618E30S	189
UTSX618E32P	193
UTSX618E32S	193

Plug with cable gland

UTSX6JC102W2P	45
UTSX6JC102W2S	45
UTSX6JC103P	23
UTSX6JC103S	23
UTSX6JC103W3P	64
UTSX6JC103W3S	64
UTSX6JC104P	50
UTSX6JC104S	50
UTSX6JC106P	70
UTSX6JC106S	70
UTSX6JC10E6P	70
UTSX6JC10E6S	70
UTSX6JC10E7P	89
UTSX6JC10E7S	89
UTSX6JC10E98P	75
UTSX6JC10E98S	75
UTSX6JC1210P	120
UTSX6JC1210S	120
UTSX6JC124P	36
UTSX6JC124PSCR	36
UTSX6JC124S	36
UTSX6JC124SSCR	36
UTSX6JC128P	97
UTSX6JC128S	97
UTSX6JC12E10P	120
UTSX6JC12E10S	120
UTSX6JC12E14P	153
UTSX6JC12E14S	153
UTSX6JC12E2P	19
UTSX6JC12E2S	19
UTSX6JC12E3P	32
UTSX6JC12E3S	32
UTSX6JC12E4P	36
UTSX6JC12E4S	36
UTSX6JC12E8P	102
UTSX6JC12E8S	102
UTSX6JC1412P	129
UTSX6JC1412S	129
UTSX6JC1419P	165
UTSX6JC1419S	165
UTSX6JC142G1P	28
UTSX6JC142G1S	28
UTSX6JC147P	84
UTSX6JC147PSCR	84
UTSX6JC147S	84
UTSX6JC147SSCR	84
UTSX6JC148P	106
UTSX6JC148S	106
UTSX6JC1492P	138
UTSX6JC1492S	138
UTSX6JC14E12P	134
UTSX6JC14E12S	134

UTSX6JC14E15P.....	157
UTSX6JC14E15S.....	157
UTSX6JC14E18P.....	161
UTSX6JC14E18S.....	161
UTSX6JC14E19P.....	165
UTSX6JC14E19S.....	165
UTSX6JC14E5P.....	55
UTSX6JC14E5S.....	55
UTSX6JC14E7P.....	84
UTSX6JC14E7S.....	84
UTSX6JC1613P.....	143
UTSX6JC1613S.....	143
UTSX6JC1619P.....	170
UTSX6JC1619S.....	170
UTSX6JC1626P.....	184
UTSX6JC1626S.....	184
UTSX6JC163G1P.....	41
UTSX6JC163G1S.....	41
UTSX6JC165P.....	59
UTSX6JC165S.....	59
UTSX6JC169P.....	116
UTSX6JC169S.....	116
UTSX6JC16E23P.....	175
UTSX6JC16E23S.....	175
UTSX6JC16E26P.....	184
UTSX6JC16E26S.....	184
UTSX6JC16E8P.....	112
UTSX6JC16E8S.....	112
UTSX6JC1813P.....	148
UTSX6JC1813S.....	148
UTSX6JC1823P.....	179
UTSX6JC1823S.....	179
UTSX6JC1832P.....	193
UTSX6JC1832S.....	193
UTSX6JC186P.....	79
UTSX6JC186S.....	79
UTSX6JC187G1P.....	93
UTSX6JC187G1S.....	93
UTSX6JC18E11P.....	125
UTSX6JC18E11S.....	125
UTSX6JC18E30P.....	189
UTSX6JC18E30S.....	189
UTSX6JC18E32P.....	193
UTSX6JC18E32S.....	193

Square flange receptacle only

UTSX0102W2P.....	45
UTSX0102W2S.....	45
UTSX0103P.....	23
UTSX0103S.....	23
UTSX0103W3P.....	64
UTSX0103W3S.....	64
UTSX0104P.....	50
UTSX0104S.....	50
UTSX0106P.....	70
UTSX0106S.....	70
UTSX010D6P.....	70
UTSX010D6S.....	70
UTSX010D7P.....	89
UTSX010D7S.....	89
UTSX010D98P.....	75
UTSX010D98S.....	75
UTSX010E6P.....	70
UTSX010E6S.....	70
UTSX010E7P.....	89

UTSX010E7S.....	89
UTSX010E98P.....	75
UTSX010E98S.....	75
UTSX01210P.....	120
UTSX01210S.....	120
UTSX0124P.....	36
UTSX0124P.....	36
UTSX0124S.....	36
UTSX0124S.....	36
UTSX0128P.....	97
UTSX0128S.....	97
UTSX012D10P.....	120
UTSX012D10S.....	120
UTSX012D14P.....	153
UTSX012D14S.....	153
UTSX012D2P.....	19
UTSX012D2S.....	19
UTSX012D3P.....	32
UTSX012D3S.....	32
UTSX012D4P.....	36
UTSX012D4S.....	36
UTSX012D8P.....	102
UTSX012D8S.....	102
UTSX012E10P.....	120
UTSX012E10S.....	120
UTSX012E14P.....	153
UTSX012E14S.....	153
UTSX012E2P.....	19
UTSX012E2S.....	19
UTSX012E3P.....	32
UTSX012E3S.....	32
UTSX012E4P.....	36
UTSX012E4S.....	36
UTSX012E8P.....	102
UTSX012E8S.....	102
UTSX01412P.....	129
UTSX01412S.....	129
UTSX01419P.....	165
UTSX01419S.....	165
UTSX0142G1P.....	28
UTSX0142G1S.....	28
UTSX0147P.....	84
UTSX0147S.....	84
UTSX0148P.....	106
UTSX0148S.....	106
UTSX01492P.....	138
UTSX01492S.....	138
UTSX014D12P.....	134
UTSX014D12S.....	134
UTSX014D15P.....	157
UTSX014D15S.....	157
UTSX014D18P.....	161
UTSX014D18S.....	161
UTSX014D19P.....	165
UTSX014D19S.....	165
UTSX014D5P.....	55
UTSX014D5S.....	55
UTSX014D7P.....	84
UTSX014D7S.....	84
UTSX014E12P.....	134
UTSX014E12S.....	134
UTSX014E15P.....	157
UTSX014E15S.....	157
UTSX014E18P.....	161
UTSX014E18S.....	161

UTSX014E19P	165
UTSX014E19S	165
UTSX014E5P	55
UTSX014E5S	55
UTSX014E7P	84
UTSX014E7S	84
UTSX01613P	143
UTSX01613S	143
UTSX01619P	170
UTSX01619S	170
UTSX01626P	184
UTSX01626S	184
UTSX0163G1P	41
UTSX0163G1S	41
UTSX0165P	59
UTSX0165S	59
UTSX0169P	116
UTSX0169S	116
UTSX016D23P	175
UTSX016D23S	175
UTSX016D26P	184
UTSX016D26S	184
UTSX016D8P	112
UTSX016D8S	112
UTSX016E23P	175
UTSX016E23S	175
UTSX016E26P	184
UTSX016E26S	184
UTSX016E8P	112
UTSX016E8S	112
UTSX01813P	148
UTSX01813S	148
UTSX01823P	179
UTSX01823S	179
UTSX01832P	193
UTSX01832S	193
UTSX0186P	79
UTSX0186S	79
UTSX0187G1P	93
UTSX0187G1S	93
UTSX018D11P	125
UTSX018D11S	125
UTSX018D30P	189
UTSX018D30S	189
UTSX018D32P	193
UTSX018D32S	193
UTSX018E11P	125
UTSX018E11S	125
UTSX018E30P	189
UTSX018E30S	189
UTSX018E32P	193
UTSX018E32S	193

Square flange receptacle with cable gland

UTSX0JC102W2P	45
UTSX0JC102W2S	45
UTSX0JC103P	23
UTSX0JC103P	64
UTSX0JC103S	23
UTSX0JC103S	64
UTSX0JC104P	50
UTSX0JC104S	50
UTSX0JC106P	70
UTSX0JC106S	70
UTSX0JC1210P	120

UTSX0JC1210S	120
UTSX0JC124P	36
UTSX0JC124S	36
UTSX0JC128P	97
UTSX0JC128S	97
UTSX0JC1412P	129
UTSX0JC1412S	129
UTSX0JC1419P	165
UTSX0JC1419S	165
UTSX0JC142G1P	28
UTSX0JC142G1S	28
UTSX0JC147P	84
UTSX0JC147S	84
UTSX0JC148P	106
UTSX0JC148S	106
UTSX0JC1492P	138
UTSX0JC1492S	138
UTSX0JC1613P	143
UTSX0JC1613S	143
UTSX0JC1619P	170
UTSX0JC1619S	170
UTSX0JC1626P	184
UTSX0JC1626S	184
UTSX0JC163G1P	41
UTSX0JC163G1S	41
UTSX0JC165P	59
UTSX0JC165S	59
UTSX0JC169P	116
UTSX0JC169S	116
UTSX0JC1813P	148
UTSX0JC1813S	148
UTSX0JC1823P	179
UTSX0JC1823S	179
UTSX0JC1832P	193
UTSX0JC1832S	193
UTSX0JC186P	79
UTSX0JC186S	79
UTSX0JC187G1P	93
UTSX0JC187G1S	93

Accessories

Color coding rings

UTS610CCRR	25
UTS610CCRY	25
UTS612CCRG	21
UTS612CCRR	21
UTS612CCRY	21
UTS614CCRG	30
UTS614CCRR	30
UTS614CCRY	30
UTS710CCRG	25
UTS710CCRR	25
UTS710CCRY	25
UTS712CCRG	21
UTS712CCRR	21
UTS712CCRY	21
UTS714CCRG	30
UTS714CCRR	30
UTS714CCRY	30
UTS610CCRG	25
UTS616CCRR	43
UTS616CCRY	43
UTS616CCRG	43
UTS618CCRR	81

UTS618CCRY	81
UTS618CCRG	81
UTS716CCRR	114
UTS716CCRY	114
UTS716CCRG	114
UTS718CCRR	127
UTS718CCRY	127
UTS718CCRG	127

Discrimination pin

SMSPKE0	225
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Gasket

UTFD12B	47
UTFD13B	21
UTFD14B	30
UTFD15B	43
UTFD16B	81

Plastic protective cap

85005586A	25
85005587A	21
85005588A	30
85005595	25
85005596	21
85005597	30
85005589A	43
85005598	43
85005590A	81
85005599	81

Sealing caps

UTS10DCG	25
UTS10DCGR	25
UTS10DCGE	25
UTX610DCG	47
UTS12DCG	99
UTS12DCGR	99
UTS12DCGE	99
UTX612DCG	99
UTS14DCG	108
UTS14DCGR	108
UTS14DCGE	108
UTX614DCG	108
UTS16DCG	114
UTS16DCGR	114
UTS16DCGE	114
UTX616DCG	43
UTS18DCG	81
UTS16DCGR	43
UTS16DCGE	43
UTX616DCG	43

Contacts**Crimp contacts**

82911456A	49
82911456	49
82911457NA	49
82911458A	49
82911459NA	49
82911460A	49
82911461NA	49
82911462A	49
82911462K	49
82911463NA	49

82911464A	49
82911465NA	49
82911466A	49
82911467NA	49
82913600A	31
82913601A	31
82913602A	31
82913603A	31
82913604A	31
82913605A	31
82913606A	31
82913607A	31
82913608A	31
82913609A	31
RC14M30GE1K	202
RC16M23GE1K	202
RC20M12GE7K	202
RC20M13GE7K	202
RC24M9GE7K	202
RC28M1GE7K	202
RM14M30GE1K	202
RM16M23GE1K	202
RM20M12GE1K	202
RM24M9GE1K	202
RM28M1GE1K	202
RM24W3K	49
RM18W3K	49
RC24W3K	49
RC18W3K	49
RC20W3K	49
RM20W3K	49
SC20W3TK6	49
SC24W3S25	49
SC24W3TK6	49
SM24W3TK6	49
SM14M1TK6	27
SM16M11TK6	27
SM16M1TK6	27
SM20M1TK6	27
RC14M30K	27
RC16M23K	27
RC20M12K	27
RC20M13K	27
RC24M9K	27
RC28M1K	27
RM14M30K	27
RM16M23K	27
RM20M12K	27
RM20M13K	27
RM24M9K	27
RM28M1K	27
SC14M1TK6	27
SC16M11TK6	27
SC16M1TK6	27
SC20M1TK6	27
SC24M1TK6	27
SC16ML11TK6	214
SC16ML1TK6	214
SC14ML1TK6	214
SC20ML1TK6	214
SC20WL3TK6	214
SC24ML1TK6	214
SC24WL3TK6	214
SM14ML1TK6	214
SM16ML11TK6	214
SM16ML1TK6	214
SM24WL3TK6	214

Coaxial contacts

RCDX60xxD28	27
RCDXK1D28	27
RCDX6016D28	204
RCDX6018D28	204
RCDX6024D28	204
RCDX6026D28	204
RCDX6032D28	204
RCDX6034D28	204
RCDX6036D28	204
RCDX6052D28	204
RMDX6018D28	204
RMDX6024D28	204
RMDX6026D28	204
RMDX6032D28	204

Fiber optic contacts

RCPOF1000B	27
RMPOF1000	27

PCB contacts

82911684NAPC	206
82911685NAPC	206
RC20M12E83K	206
RC20M12E8K	206
82911684NPC	31
82911685NPC	31
RC20M12E84K	27
RCW5016K	124

Tooling

MH860	210
51060210936	31
M317	31
RX2025GE1	26
RX2031J	26
S16RCM14	26
S16RCM16	26
S16SCM20	26
S16SCML1	26
S16SCML11	26
51060210924	48
RX20D44	48
S20RCM	48
S20SCM20	48

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