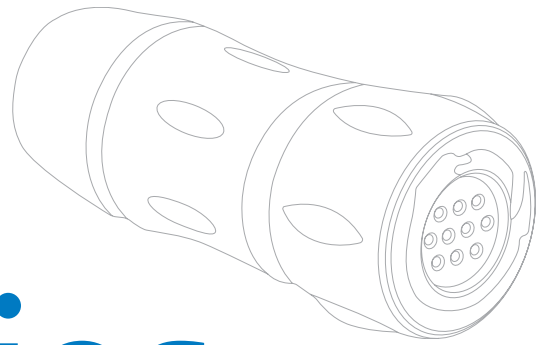


The next generation of bayonet connectors for harsh environments
Souriau UTGX series



Powering Business Worldwide



UTGX series

plastic circular connectors

Typical applications



A versatile, ruggedized solution for industrial applications

Waterproof, shock-proof and UV resistant, the UTGX series can withstand continuous underwater immersion, routine pressure washing, dirt and dust and other harsh conditions. Ideal for both indoor and outdoor applications with a lifespan of up to 27 years in-application, the UL/IEC certified UTGX series connectors are **a safe and reliable solution**.

Improve efficiency with lightweight, versatile and quick mating connectors

The UTGX series can be used in a wide range of configurations and electrical layouts, allowing you **to save space on your equipment**. While the bayonet locking mechanism ensures a quick and secure connection and disconnection, other updates to the lightweight design make the UTGX series connectors easier than ever for operators to handle quickly. Especially in high-mating cycle applications, **UTGX will save time and money for your business**.

Upgrading has never been easier

The new Souriau UTGX Series uses Trim Trio® contacts. A single design for machined, stamped and formed and highspeed contacts, making **it quicker, easier and more cost effective to upgrade**. By using the same contacts, the switch from one connector series to another doesn't require tool or panel cut-out modifications.



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UTGX Series



Cable sealed

UTGX Standard



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



Corrosion-proof
Plastic housing

UTGX backshells
Cable sealing



Double sealing (wires + cable)



Grommet

Single wire sealed



Conduit adapter



Contacts supplied separately



Choice of crimp contacts
Machined / Stamped and Formed / Coaxial
PCB contacts Fiber optic

Contacts loaded
Handsolder

UTGX Hi seal - sealed unmated



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



Corrosion-proof
Plastic housing

Plug



Overmoulded cable assembly



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

UTGX Standard receptacle

Jam nut



Square flange



In-line



Square flange



UTGX sealed unmated receptacle

Jam nut



Square flange



Contacts supplied separately



Choice of crimp contacts
Machined / Stamped and Formed / Coaxial
PCB contacts
Fiber optic

Contacts supplied separately



Choice of crimp contacts
Machined / Stamped and
Formed / Coaxial
PCB contacts
Fiber optic

UTGX backshells

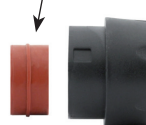
Cable sealing



Double sealing (wires + cable)



Grommet



Single wire sealed

Conduit adapter



Contacts loaded
PCB
Handsolder

UTGX 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



Technical features

Materials

- Body connector and backshell: Thermoplastic
- Insert
 - UTGX Standard, UTGX Single Wire Sealed, UTGX Screw Termination Contacts: Thermoplastic
 - UTGX Sealed Unmated Handsolder & UTGX Sealed Unmated with PC Tails Contacts: Elastomer
- Nut: Metal
- Contacts: See **Page 126**
- Halogen free
- RoHS compliant & conforms to the Chinese standard SJ/T1166-2006 (Chinese RoHS equivalent)

Environmental

- Temperature class: **IEC61984** from -40°C to +105°C
 - Flammability rating:
 - **UL94 V-0** for UTGX standard
 - **UL94 HB** for UTGX Hi-seal
 - R22 HL2 / R23 HL2 according to NF EN 45545 for UTGX standard only
 - 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
 - UTGX Standard: IP68/IP69K dynamic (mated)
 - UTGX Sealed Unmated version: **IP68/IP69K** dynamic (unmated)
 - UTGX Single Wire Sealed: **IP67/69K** (up to IP68 with double sealing backshell)
 - UTGX 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
 - Chlorine

Electrical

In accordance with

- **UL 1977**
 - Category ECBT2
 - File number: E169916
- **C22.2 n°182.3**
 - Category ECBT8
 - File number: E169916
- **IEC61984**
 - Voltage and current information available on **Pages 11 to 13** and on each layout pages

Mechanical

- Durability: 500 matings and unmatings according to **IEC 60512-9a**
- Vibration Sinus from 10 to 2000Hz; 20grms according to **IEC60512-6-4**
- Thermal shock: According to **MIL-DTL-26482** and **EIA364 32**
- IK resistors: See table below for shock resistance

Connector type	Size 10	Size 12	Size 14
UTGX0 / UTGX6JC	IK05 (0.7J) according to IEC62262	IK06 (1J) according to IEC62262	IK06 (1J) according to IEC62262
UTGX7 / UTGX6JC	IK06 (1J) according to IEC62262	IK07 (2J) according to IEC62262	IK07 (2J) according to IEC62262
UTGX1JC / UTGX6JC	Impact test (6.8J) according to UL746C	Impact test (6.8J) according to UL746C	Impact test (6.8J) according to UL746C

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 1.6 mm)	Contacts	Contact #20 (Ø 1.0 mm)	Contacts	Hybrid & 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 18		106 – 10E6/10D6 7A/32V 6 contacts Page 56		102W2 25A/150V 4 contact 2 x Ø 2.4 (#12) + 2 x Ø 1.0 (#20) Page 36
	104 13A/150V 4 contacts Page 41		10E98/10D98 7A/50V 6 contacts Page 61		103W3 5A/32V 6 contacts 3 x Ø 1.6 (#16) + 3 x Ø 1.0 (#20) Page 50
			10E7/10D7 7A/50V 7 contacts Page 70		

Note: Layouts in blue text are UTGX sealed in unmated condition

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

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

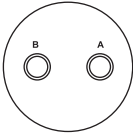
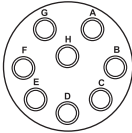
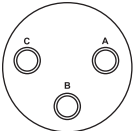
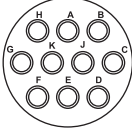
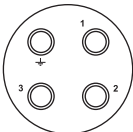
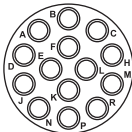
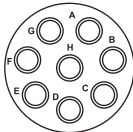
Contacts #12:
from AWG 20 to 12
0.13 to 4 mm²

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

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 1.6 mm)	Contacts	Contact #20 (Ø 1.0 mm)
Description (mating face view male connectors)		Description (mating face view male connectors)	
	12E2/12D2 16A/150V 2 contacts Page 14		12E8/12D8 6A/32V 8 contacts Page 79
			
	12E3/12D3 16A/150V 3 contacts Page 26		1210 – 12E10/12D10 6A/50V 10 contacts Page 89
			
	124 – 12E4/12D4 16A/150V 3 + ground Page 31		12E14/12D14 5A/32V 14 contacts Page 108
			
	128 10A/80V 8 contacts Page 74		

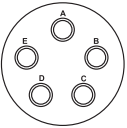
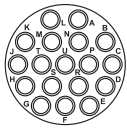
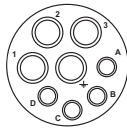
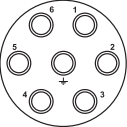
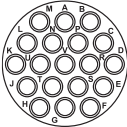
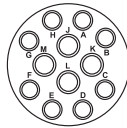
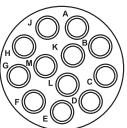
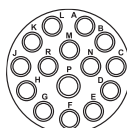
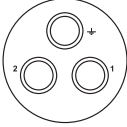
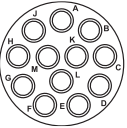
Note: Layouts in blue text are UTGX sealed in unmated condition

Contacts #20: from AWG 26 to 18 0.13 to 0.93 mm ²	Contacts #16: from AWG 30 to 14 0.05 to 2.5 mm ²	Contacts #12: from AWG 20 to 12 0.13 to 4 mm ²	Contacts #8: from AWG 16 to 8 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 1.6 mm)	Contacts	Contact #20 (Ø 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 46		14E18/14D18 5A/50V 18 contacts Page 116		148 17A/230V 8 contacts 4 x Ø 1.6 (#16) + 3 x Ø 2.4 (#12) + ground Page 83
					
	147 – 14E7/14D7 7A/150V 6 + ground Page 35		1419 – 14E19/14D19 5A/32V 19 contacts Page 120		14E12/14D12 4A/50V 12 contacts 4 x Ø 1.6 (#16) + 8 x Ø 1.0 (#20) Page 99
		Contacts	Contact #8 (Ø 3.6 mm)		
	1412 10A/63V 12 contacts Page 94	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 112
			142G1 40A/300V 2 + ground Page 23		
	1492 10A/63V 12 contacts Page 103				

Note: Layouts in **blue text** are UTGX sealed in unmated condition

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

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

Contacts #12:
from AWG 20 to 12
0.13 to 4 mm²

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

Souriau UTGX series

Overmolded cable assembly

Overmoulding is a process that further enhances the sealing properties of the **UTGX** range, especially over many years of

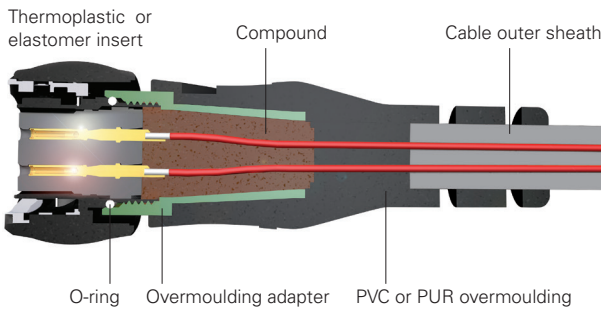
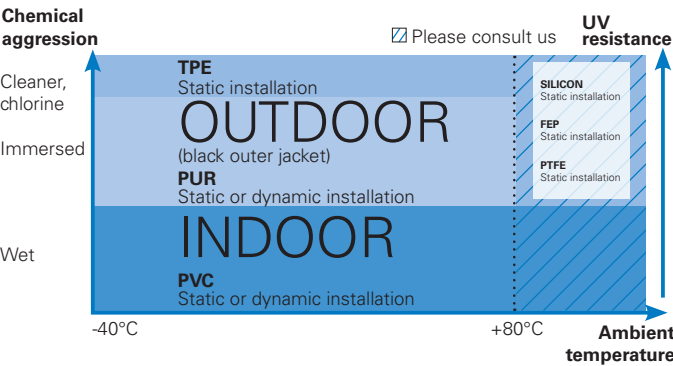
use. Overmoulding provides the opportunity to change the cable exit from straight to 90 degrees and avoid stress on

the cable terminated to the connector. Also, as the wires are encapsulated inside the moulding, a barrier is created

which prevents any liquid from entering the equipment through the connector if the cable jacket is breached.

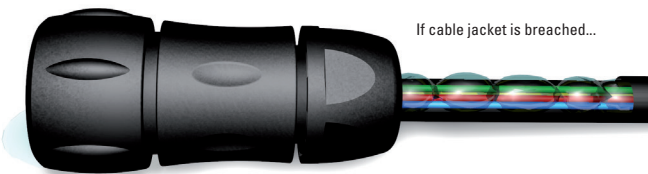


How to choose the outer jacket material



Connector with cable gland backshell

GOOD



...water ingress unhampered, leading to damage.

Overmoulded connector

BEST



...prevents water ingress via capillary action.



HAUTGX standard offering

Cable

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

Overmoulding specifications

Plating	Salt spray	Temperature*	Waterproof*	Mechanical
No plating	500 H	-40°C up to + 105°C	IP68/IP69K dynamic (mated)	500 matings/unmatings

(*): With appropriate cable and overmoulding

Cable information

Range of temperature	Rated voltage	Wire section	Harmonized reference
Occasional flexing: -5°C up to +70°C	U0/U: 300/500V	Layouts with #16 contact: wire section 1.5 mm²	H05 VV - F XX
Fixed installation: -40°C up to +80°C	U0/U: 300/500V	Layouts with #20 contact: wire section 0.5 mm²	H05 VV - F XX

Example of customized cable assemblies



Overmoulding on curly cable



Overmoulding with double ends



Harness for PCB connection

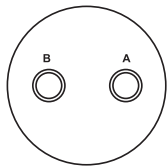
Souriau UTGX series

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



Connector part number

UTGX 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 17	Square flange receptacle	Without (Fig. 1)	UTGX012E2P	UTGX012E2S
	Plug	Without (Fig. 5)	UTGX612E2P	UTGX612E2S
	Plug	Cable gland (Fig. 3)	UTGX6JC12E2P	UTGX6JC12E2S
PCB contacts loaded see Page 17	Jam nut receptacle	Without (Fig. 4)	UTGX712E2P	UTGX712E2S
	Square flange receptacle	Without (Fig. 2)	UTGX012D2P	UTGX012D2S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX712D2P	UTGX712D2S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX712D2P32	UTGX712D2S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

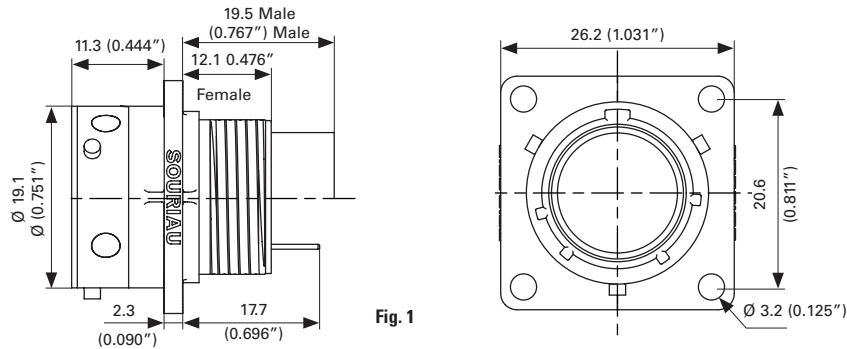
Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 3x1.5	HAUTGX12E2PST1M	HAUTGX12E2SST1M
Right angle ending	Plug	1.5	H05 VV - F 3x1.5	HAUTGX12E2PRA1M	HAUTGX12E2SRA1M

(1): Other cable available on demand
(*) : Other lengths available on demand

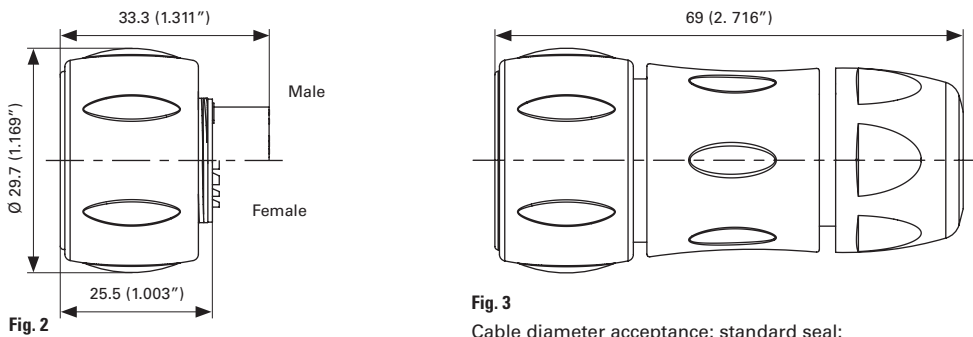
Note: Overmoulded cable assembly dimensions available **Page 143**

Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0

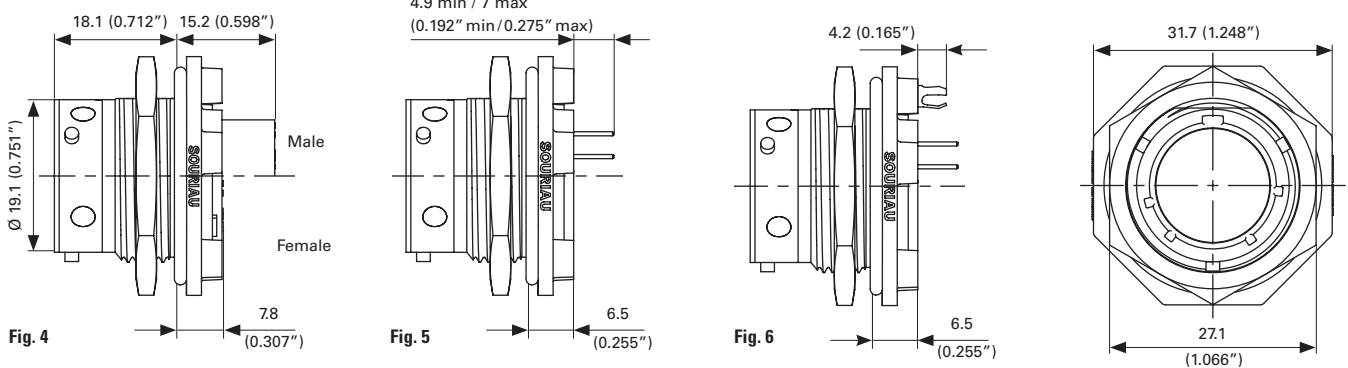


Plug - UTGX6 & UTGX6JC



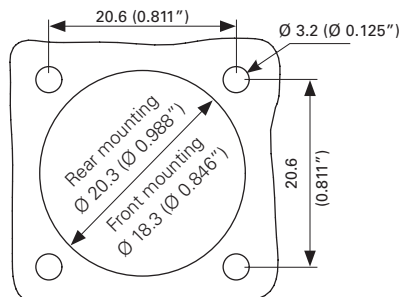
Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from
3 mm (0.118") to 9 mm (0.354")

Jam nut receptacle UTGX7

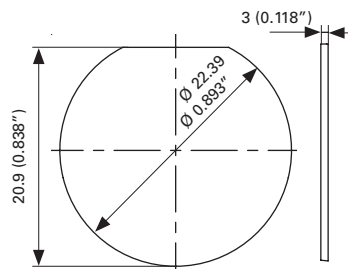


Panel cut out

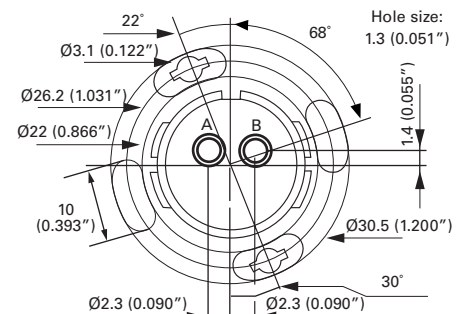
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	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

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

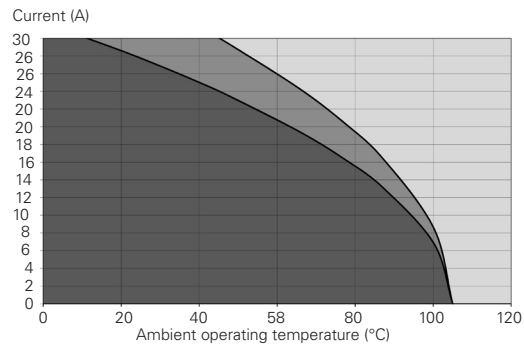
(1): For dimensions see **Pages 135 or 136**

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.

UTGX 12E2/12D2 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

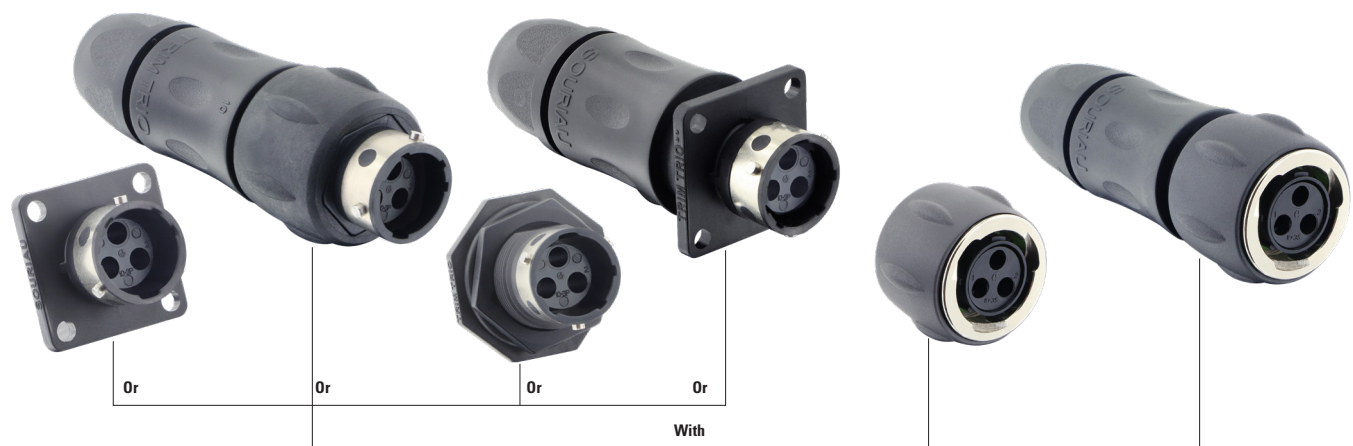
Contact used: machined contacts

Wires used: 1.31 mm²

Derating curves based on continuous current application.

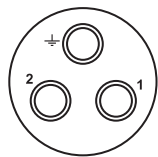
Souriau UTGX series

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



Connector part number

UTGX 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 22	Square flange receptacle	Without (Fig. 1)	UTGX0103P	UTGX0103S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC103P	UTGX0JC103S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC103P	UTGX1JC103S
	Plug	Without (Fig. 4)	UTGX6103P	UTGX6103S
	Plug	Cable gland (Fig. 5)	UTGX6JC103P	UTGX6JC103S
PCB contacts supplied separately see Page 22	Jam nut receptacle	Without (Fig. 6)	UTGX7103P	UTGX7103S
	Jam nut receptacle	Without (Fig. 7)	UTGX7103P	UTGX7103S

Overmoulded cable assembly part numbers

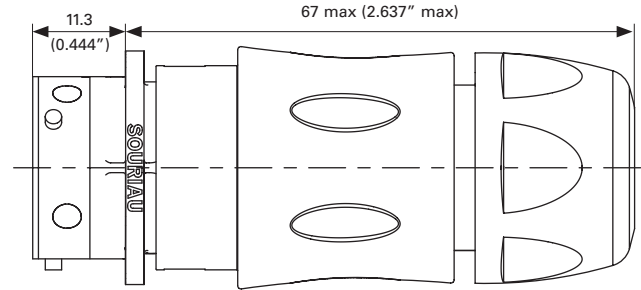
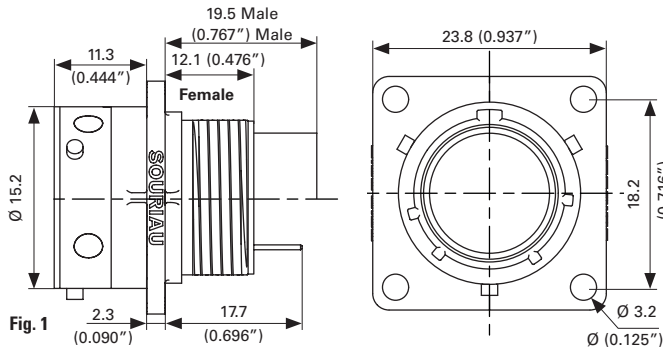
Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm²)	(inch²)		Male plug	Female plug
Straight ending	Plug	1.5	0.0590*	H05 VV - F 3x1.5	HAUTGX103PST1M	HAUTGX103SST1M
Right angle ending	Plug	1.5	0.0590*	H05 VV - F 3x1.5	HAUTGX103PRA1M	HAUTGX103SRA1M

(1): Other cable available on demand
(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available page 145

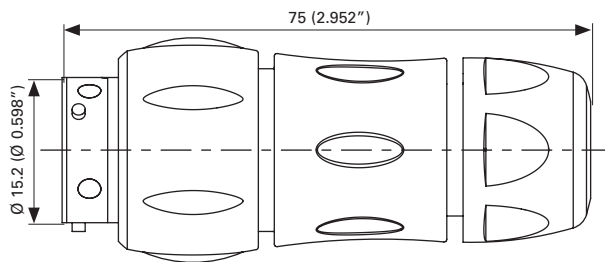
Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC



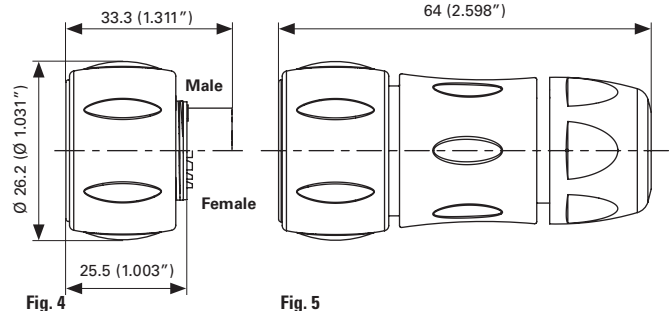
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 8 mm (0.314"), reduced seal: from 1.5 mm (0.059") to 5 mm (0.196")

Free hanging - UTGX1JC



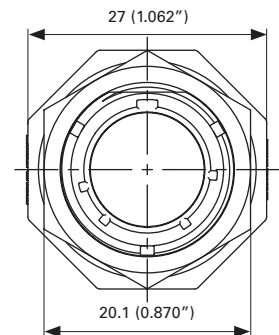
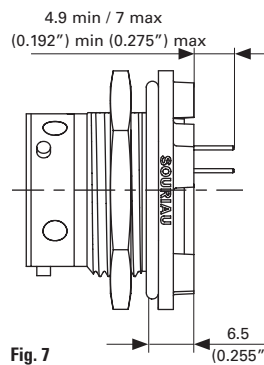
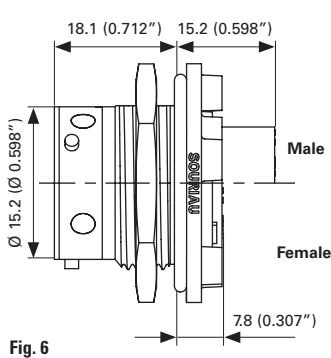
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 8 mm (0.314"), reduced seal: from 1.5 mm (0.059") to 5 mm (0.196")

Plug - UTGX6 & UTGX6JC



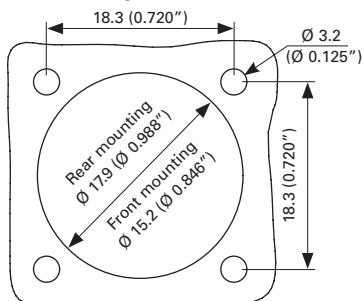
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 8 mm (0.314"), reduced seal: from 1.5 mm (0.059") to 5 mm (0.196")

Jam nut receptacle UTGX7

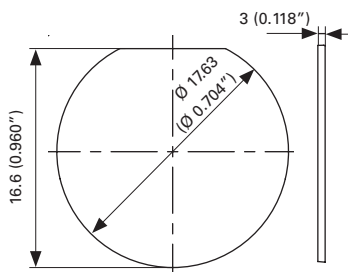


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K Metal terminal	UTS12DCGE

Plug sealing cap



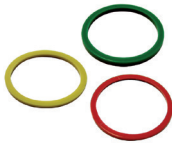
Description	Part number
IP68/69K	UTX610DCG

Plastic protective cap



Part number receptacle cap	Part number plug cap
85005586A	85005595

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

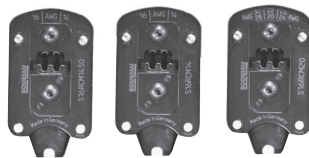
Tooling

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 #16 Ø 1.6 mm	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 126](#)

(*) : Heads to be used with handle PN: SHANDLES

Extraction tool #16

Fig. 1



Fig. 2



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

Souriau UTGX series

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

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.0188"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.020"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.020"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.059"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.059"-0.098"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90- 1.58	0.035"- 0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.020"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20- 2.10	0.047"- 0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-0.059"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-0.059"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 131 to 132			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 131 to 132			RMDXK10D28 + yox090	RCDXK1D28 + yox090	—	—	—	—
	Twisted pair monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMP0F1000	RCPOF1000B	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

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

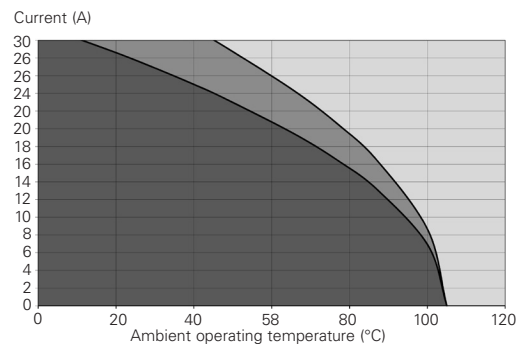
(3): For dimensions see **Page 133**

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.

UTGX 103 derating curves



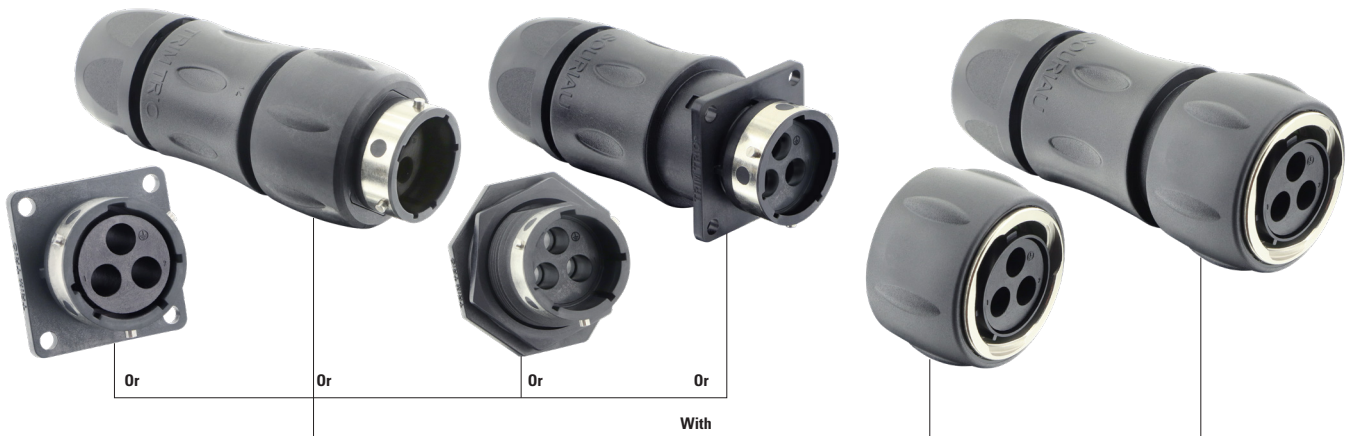
Derating curves based on continuous current application.

- Current use
- Limited use
- Not recommended use

Test conditions

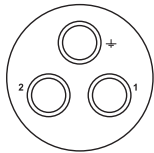
Contact used: machined contacts

Wires used: 1.31 mm²



Connector part number

UTGX 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 26	Square flange receptacle	Without (Fig. 1)	UTGX0142G1P	UTGX0142G1S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC142G1P	UTGX0JC142G1S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC142G1P	UTGX1JC142G1S
	Plug	Without (Fig. 4)	UTGX6142G1P	UTGX6142G1S
	Plug	Cable gland (Fig. 5)	UTGX6JC142G1P	UTGX6JC142G1S
	Jam nut receptacle	Without (Fig. 6)	UTGX7142G1P	UTGX7142G1S
PCB contacts supplied separately see Page 26	Jam nut receptacle	Without (Fig. 7)	UTGX7142G1P	UTGX7142G1S

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm ²)	(inch ²)		Male plug	Female plug
Straight ending	Plug	0.5	0.019"	H05 VV - F 3x0.5	HAUTGX142G1PST1M	HAUTGX142G1SST1M
Right angle ending	Plug	0.5	0.019"	H05 VV - F 3x0.5	HAUTGX142G1PRA1M	HAUTGX142G1SRA1M

(1) Other cable available on demand

(*) Other lengths available on demand

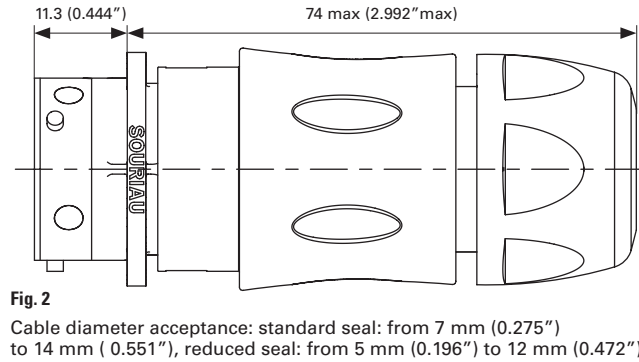
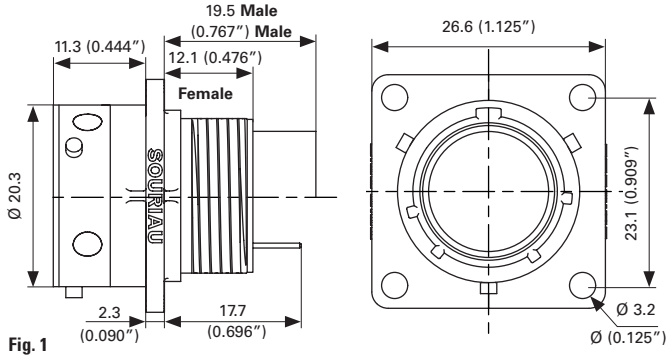
Note: Overmoulded cable assembly dimensions available **Page 145**

Souriau UTGX series

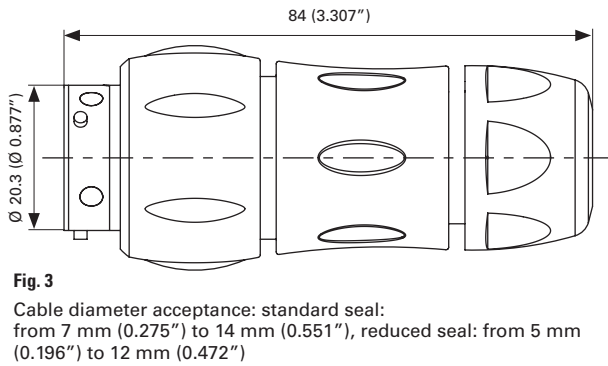
142G1 (Shell size 14, 2 + ground, 3x#8)

Dimensions in mm/inch (For mated connector lengths see Page 142)

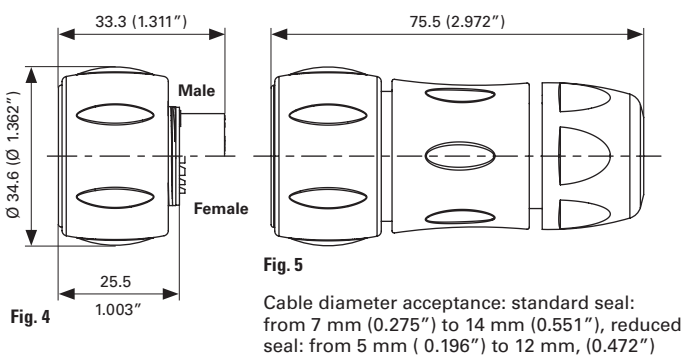
Square flange receptacle - UTGX0 and UTGX0JC



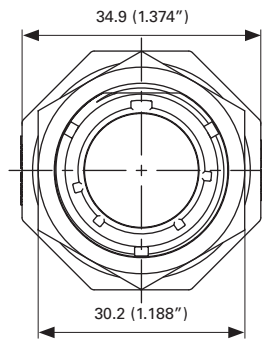
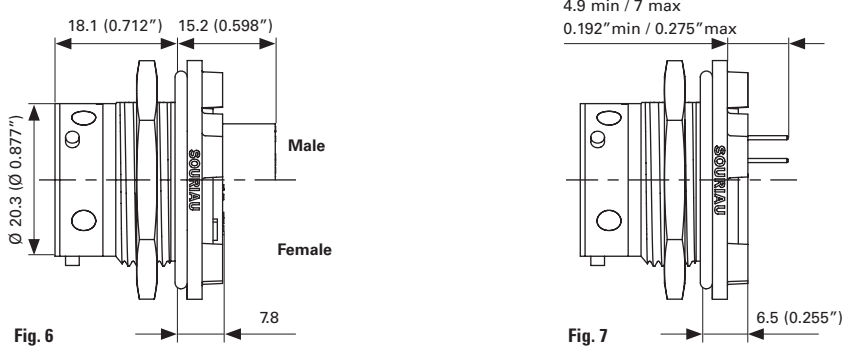
Free hanging - UTGX1JC



Plug - UTGX6 & UTGX6JC

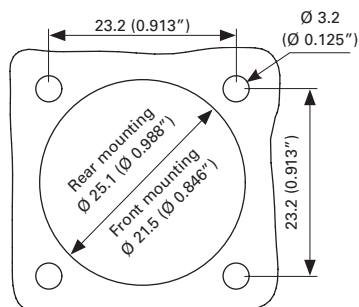


Jam nut receptacle UTGX7

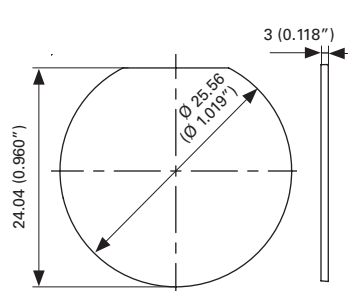


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	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 UTGX series

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

Tooling

Hand Tool



Description	Part number
Shandle only	M317

Positioner + Locator setting #8



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

Extraction tool #8



Description	Part number
For crimp contacts #8	51060210936

Contacts #8

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm²)	(inch²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	16	1.48	0.058"	82913601A ⁽¹⁾	82913600A ⁽¹⁾	1.72	0.067"	6.5	0.255"
	Machined	14	2.48	0.097"	82913603A ⁽¹⁾	82913602A ⁽¹⁾	2.20	0.086"	6.5	0.255"
	Machined	12	4.00	0.157"	82913605A ⁽¹⁾	82913604A ⁽¹⁾	2.82	0.111"	6.5	0.255"
	Machined	10	6.00	0.236"	82913607A ⁽¹⁾	82913606A ⁽¹⁾	3.48	0.137"	6.5	0.255"
	Machined	8	10.00	0.393"	82913609A ⁽¹⁾	82913608A ⁽¹⁾	4.35	0.171"	6.5	0.255"
PCB	Machined ⁽²⁾	—	—	—	82911685NPC ⁽¹⁾	82911684NPC ⁽¹⁾	—	—	—	—

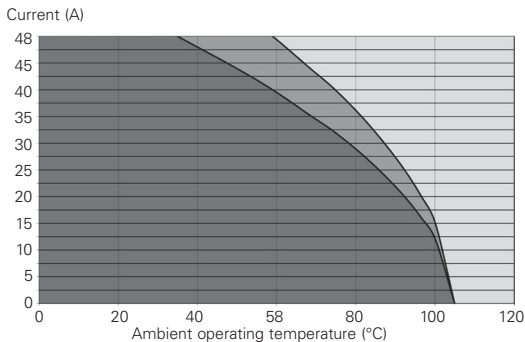
(1): Example of plating, for other plating see **Page 126**

(2): for dimensions see **Pages 133 or 134**

Electrical characteristics

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

UTGX 142G1 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

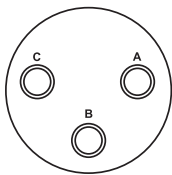
Wires used: 8.37 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 12E3/12D3



2 contacts 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 32	Square flange receptacle	Without (Fig. 1)	UTGX012E3P	UTGX012E3S
	Plug	Without (Fig. 2)	UTGX612E3P	UTGX612E3S
	Plug	Cable gland (Fig. 3)	UTGX6JC12E3P	UTGX6JC12E3S
	Jam nut receptacle	Without (Fig. 4)	UTGX712E3P	UTGX712E3S
PCB contacts loaded see Page 32	Square flange receptacle	Without (Fig. 2)	UTGX012D3P	UTGX012D3S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX712D3P	UTGX712D3S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX712D3P32	UTGX712D3S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 3x1.5	HAUTGX12E3PST1M	HAUTGX12E3SST1M
Right angle ending	Plug	1.5	H05 VV - F 3x1.5	HAUTGX12E3PRA1M	HAUTGX12E3SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

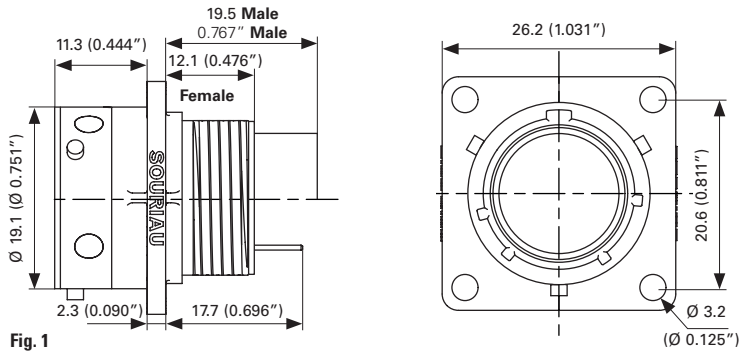
Note: Overmoulded cable assembly dimensions available **Page 145**

Souriau UTGX series

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

Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0



Plug - UTGX6 & UTGX6JC

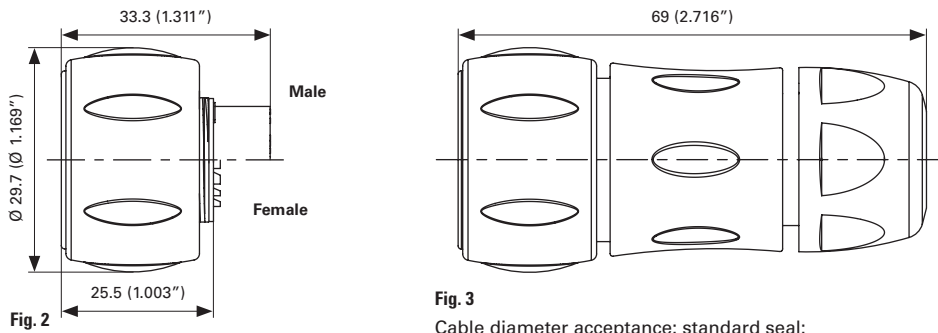
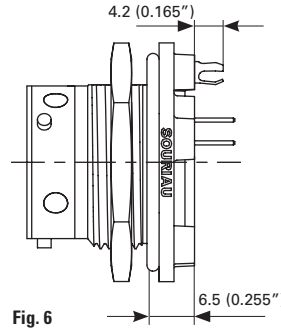
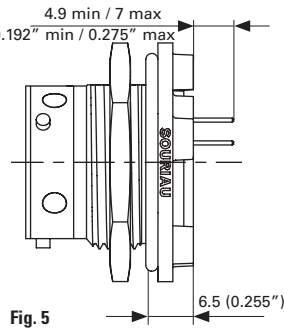
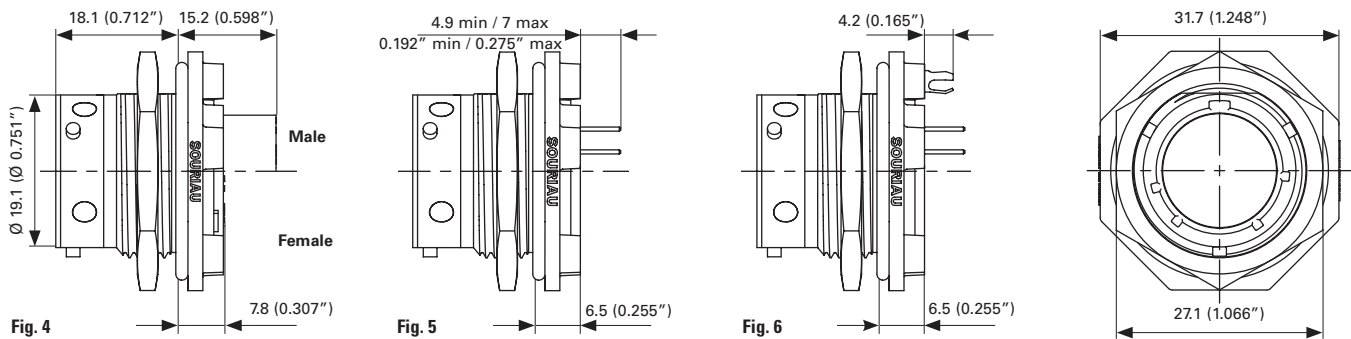


Fig. 3

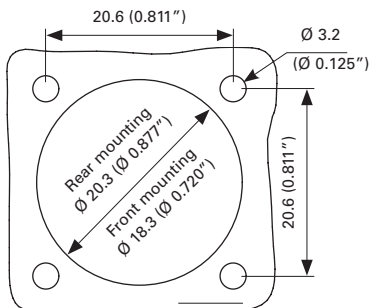
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 12 mm 0.472", reduced seal: from 3 mm 0.118" to 9 mm 0.354"

Jam nut receptacle UTGX7

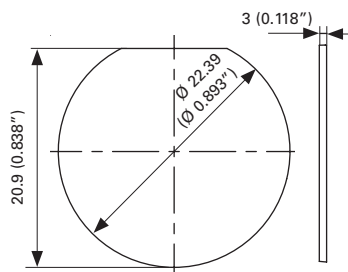


Panel cut out

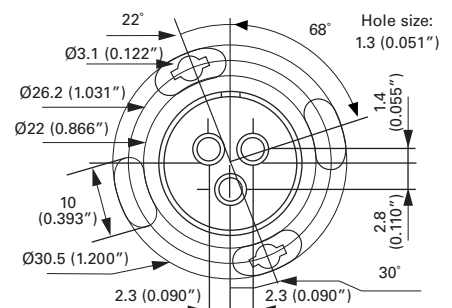
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX612DCG

Plastic protective cap



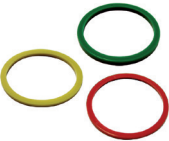
Part number receptacle cap	Part number plug cap
85005587A	85005596

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 UTGX series

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

Contacts

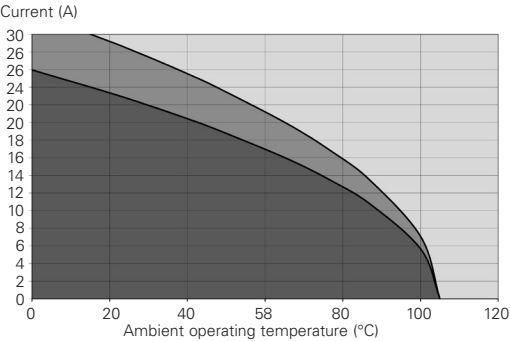
Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
				(mm²)	(inch²)	(mm²)	(inch²)
#16	Hand solder Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	18 - 14	0.82 - 2.48	0.032"-0.097"	5 mm	0.196
	PCB Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	—	—	—	—	—

(1): For dimensions see **Pages 132 or 133**

Electrical characteristics

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

UTGX 12E3/12D3 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

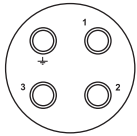
Wires used: 1.31 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 124



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

12E4/12D4
3 contacts + ground
13A/600V per UL 1977
with AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Crimp contacts supplied separately see Page 35	Square flange receptacle	Without (Fig. 1)	UTGX0124P	UTGX0124S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC124P	UTGX0JC124S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC124P	UTGX1JC124S
	Plug	Without (Fig. 4)	UTGX6124P	UTGX6124S
	Plug	Cable gland (Fig. 5)	UTGX6JC124P	UTGX6JC124S
	Jam nut receptacle	Without (Fig. 6)	UTGX7124P	UTGX7124S
Screw contacts loaded	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC124PSCR	UTGX1JC124SSCR
	Plug	Cable gland (Fig. 5)	UTGX6JC124PSCR	UTGX6JC124SSCR
	Jam nut receptacle	Without (Fig. 9)	UTGX7124PSCR	UTGX7124SSCR
PCB contacts supplied separately see Page 35	Square flange receptacle	Without (Fig. 1)	UTGX0124P	UTGX0124S
	Jam nut receptacle	Without (Fig. 7)	UTGX7124P	UTGX7124S
Hand solder electrical contacts loaded see Page 35	Square flange receptacle	Without (Fig. 1)	UTGX012E4P	UTGX012E4S
	Plug	Without (Fig. 4)	UTGX612E4P	UTGX612E4S
	Plug	Cable gland (Fig. 5)	UTGX6JC12E4P	UTGX6JC12E4S
	Jam nut receptacle	Without (Fig. 6)	UTGX712E4P	UTGX712E4S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTGX012D4P	UTGX012D4S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTGX712D4P	UTGX712D4S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTGX712D4P32	UTGX712D4S32

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm ²)	(inch ²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059"	H05 VV - F 4x1.5	HAUTGX124PST1M	HAUTGX124SST1M
	Plug	1.5	0.059"	H05 VV - F 4x1.5	HAUTGX12E4PRA1M	HAUTGX12E4SRA1M
Right angle ending	Plug	1.5	0.059"	H05 VV - F 4x1.5	HAUTGX124PRA1M	HAUTGX124SRA1M
	Plug	1.5	0.059"	H05 VV - F 4x1.5	HAUTGX12E4PRA1M	HAUTGX12E4SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

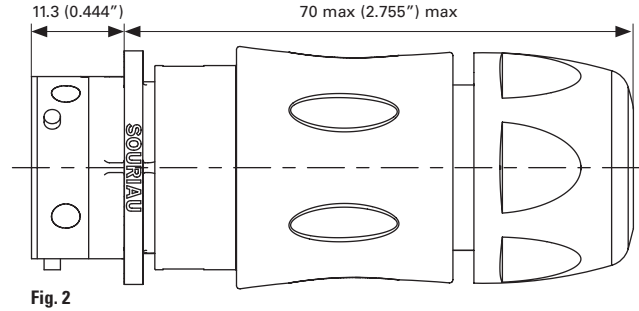
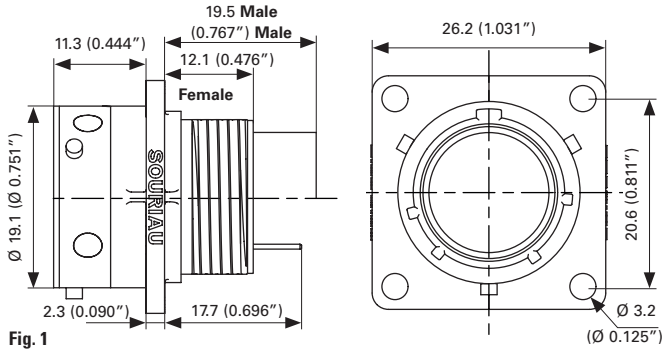
Note: Overmoulded cable assembly dimensions available **Page 142**

Souriau UTGX series

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

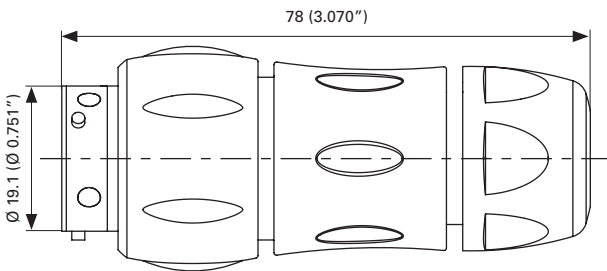
Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC



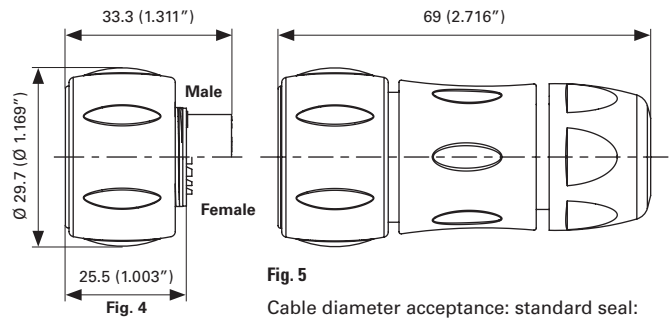
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from 3 mm (0.118") to 9 mm (0.354")

Free hanging - UTGX1JC



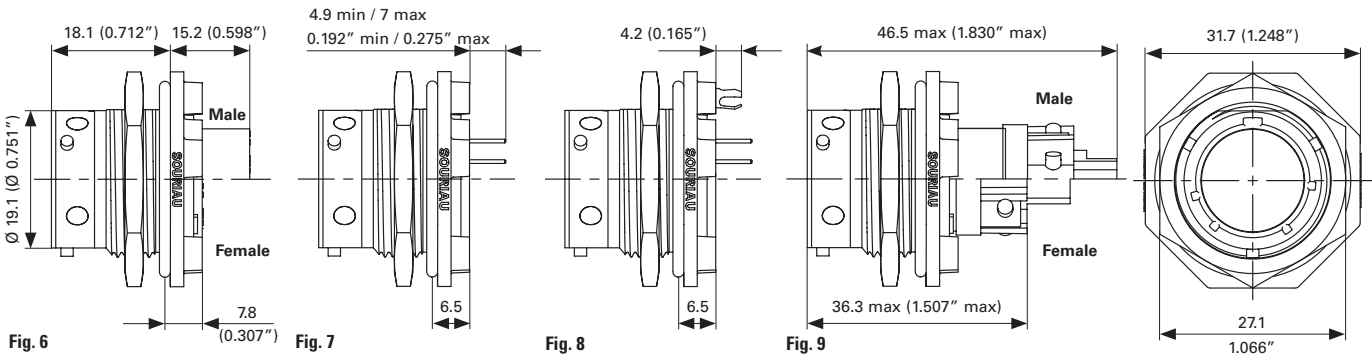
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from 3 mm (0.118") to 9 mm (0.354")

Plug - UTGX6 & UTGX6JC



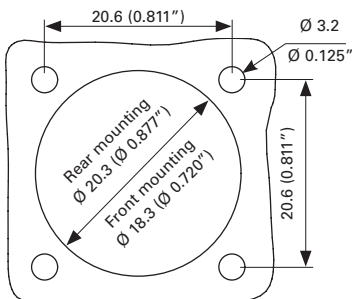
Cable diameter acceptance: standard seal: from 2.5 mm to 12 mm, reduced seal: from 3 mm to 9 mm

Jam nut receptacle UTGX7

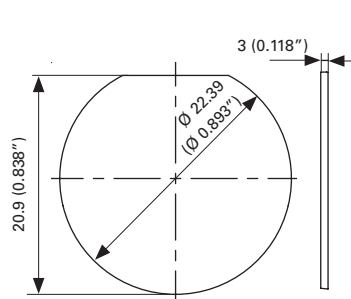


Panel cut out

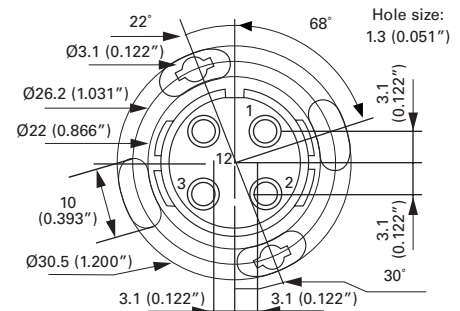
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX612DCG

Plastic protective cap



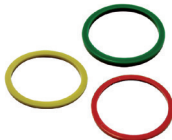
Part number receptacle cap	Part number plug cap
85005587A	85005596

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 UTGX series

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

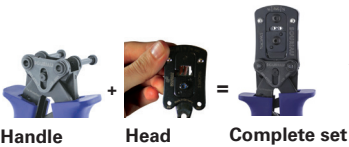
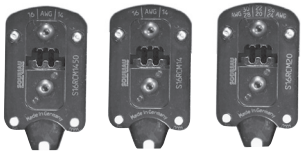
Tooling

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 1.6 mm	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*

Extraction tool #16



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

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.52-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 133 to 134			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 133 to 134			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 133 to 134			RMDXK10D28 + yox090	RCDXK1D28 + yox090	—	—	—	—
	Twisted pair monocrimp	see Pages 133 to 134			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMP0F1000	RCPOF1000B	—	—	—	—
Handsolder	Loaded in the connector	14-18	2.48-0.82	—	—	—	—	—	—	—

(1): Example of plating, for other plating see Page 126

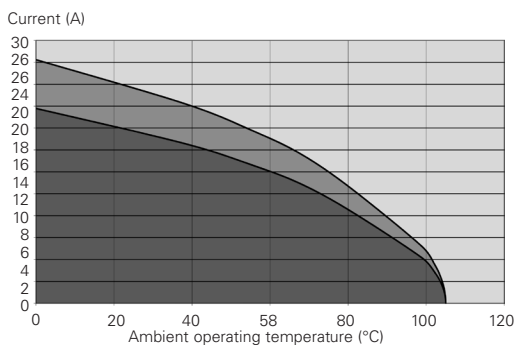
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see Pages 133 or 134

Electrical characteristics

UL	CSA	IEC
UTGX 124		
16A 500V with AWG14 wire	16A 500V with AWG14 wire	16A 150V 2.5kV 3 temperature elevation: 50°C
UTGX 12E4/12D4		
13A 600V with AWG16 wire	13A 600V with AWG16 wire	16A 150V 2.5kV 3 temperature elevation: 50°C

UTGX 124 - 12E4/12D4 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 1.31 mm²

Derating curves based on continuous current application.

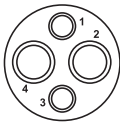
Souriau UTGX series

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



Connector part number

UTGX 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 42	Square flange receptacle	Without (Fig. 1)	UTGX0102W2P	UTGX0102W2S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC102W2P	UTGX0JC102W2S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC102W2P	UTGX1JC102W2S
	Plug	Without (Fig. 4)	UTGX6102W2P	UTGX6102W2S
	Plug	Cable gland (Fig. 5)	UTGX6JC102W2P	UTGX6JC102W2S
	Jam nut receptacle	Without (Fig. 6)	UTGX7102W2P	UTGX7102W2S

Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

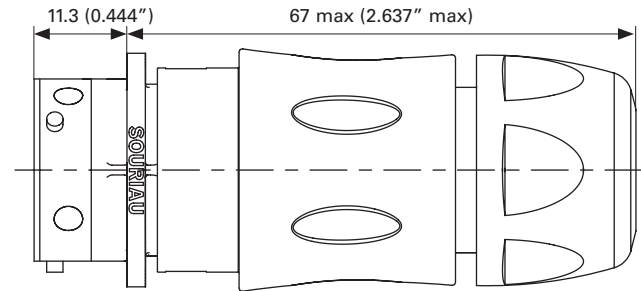
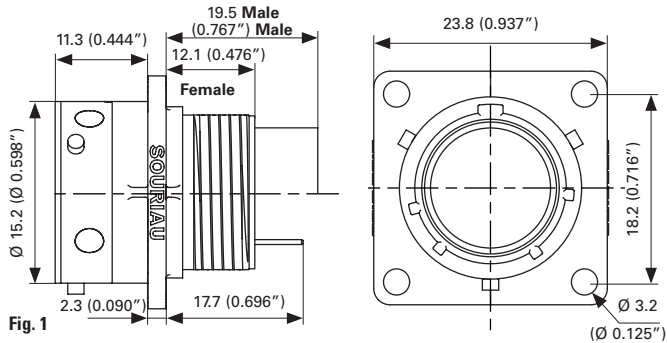


Fig. 2

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

Free hanging - UTGX1JC

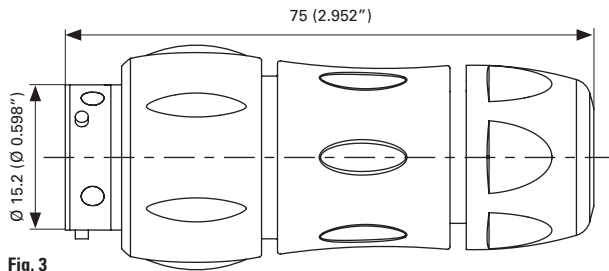


Fig. 3

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

Plug - UTGX6 & UTGX6JC

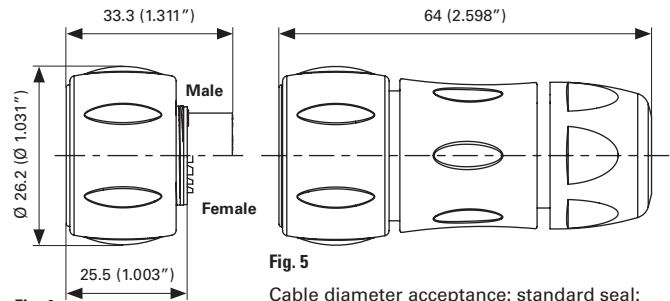


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

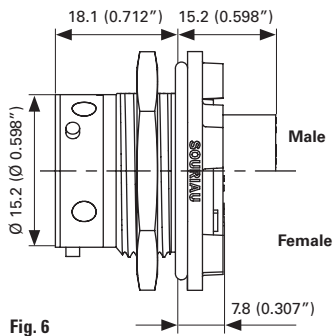
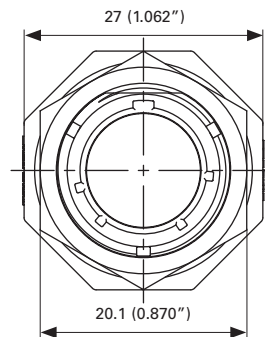
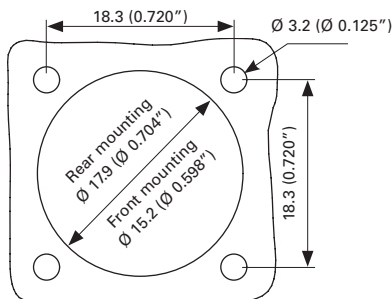


Fig. 6

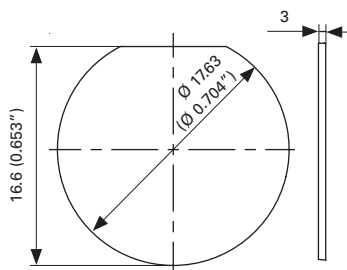


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68/69K	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)

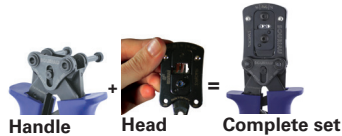


Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 1 mm	RM/RC 24W3K ⁽¹⁾	S20RCM*
	RM/RC 20W3K ⁽¹⁾	S20RCM*
	RM/RC 18W3K ⁽¹⁾	S20RCM*
	SM/SC 24WL3 ⁽¹⁾⁽²⁾	S20SCM20*
	SM/SC 20WL3 ⁽¹⁾⁽²⁾	S20SCM20*

(1): Example of plating, for other plating options see **Page 126**

(2): Loose contact

(*): Heads to be used with handle PN: SHANDLES



Crimp tooling #12



Contact size	Part number hand tool	Part number positioner + locator setting
Standard contacts #12 Ø 2.4 mm	M317	VGE10077A

Extraction tool



Fig. 1



Fig. 2

Description	Part number
Fig. 1 - Contacts #20	RX20D44
Fig. 2 - Contacts #12	51060210924

Souriau UTGX series

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

Contacts #20

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm²)	(inch²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24W3K	RC24W3K	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.15	0.045"	1.80	0.070"
	Machined	20-18	0.50-0.82	0.019"-0.032"	RM18W3K	RC18W3K	1.30	0.051"	2.10	0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3TK6⁽¹⁾⁽²⁾	SC24W3TK6⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3S26⁽¹⁾⁽²⁾	SC24W3S25⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6⁽¹⁾⁽²⁾	SC20W3TK6⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3S26⁽¹⁾⁽²⁾	SC20W3S25⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3S26⁽¹⁾⁽²⁾	SC20W3S25⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"

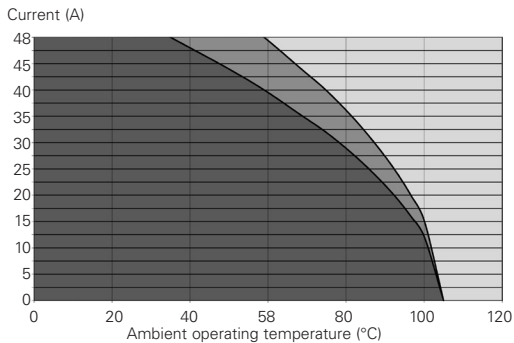
Contacts #12

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm²)	(inch²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	22	0.50	0.019"	82911457NA	82911456A	0.87	0.034"	4.90	0.192"
	Machined	20	0.52	0.020"	82911459NA	82911458A	1.12	0.044"	4.90	0.192"
	Machined	18	0.80	0.031"	82911461NA	82911460A	1.42	0.055"	4.90	0.192"
	Machined	16	1.48	0.058"	82911463NA	82911462A	1.72	0.067"	4.90	0.192"
	Machined	14	2.48	0.097"	82911465NA	82911464A	2.20	0.086"	4.90	0.192"
	Machined	12	4.00	0.157"	82911467NA	82911466A	2.82	0.111"	4.90	0.192"

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

UTGX 102W2 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

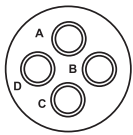
Wires used: 0.518 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 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 45	Square flange receptacle	Without (Fig. 1)	UTGX0104P	UTGX0104S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC104P	UTGX0JC104S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC104P	UTGX1JC104S
	Plug	Without (Fig. 4)	UTGX6104P	UTGX6104S
	Plug	Cable gland (Fig. 5)	UTGX6JC104P	UTGX6JC104S
	Jam nut receptacle	Without (Fig. 6)	UTGX7104P	UTGX7104S
PCB contacts supplied separately see Page 45	Jam nut receptacle	Without (Fig. 7)	UTGX7104P	UTGX7104S

For discrimination/keying methods see **Page 151**

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm ²)	(inch ²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059"	H05 VV - F 4x1.5	HAUTGX104PST1M	HAUTGX104SST1M
Right angle ending	Plug	1.5	0.059"	H05 VV - F 4x1.5	HAUTGX104PRA1M	HAUTGX104SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

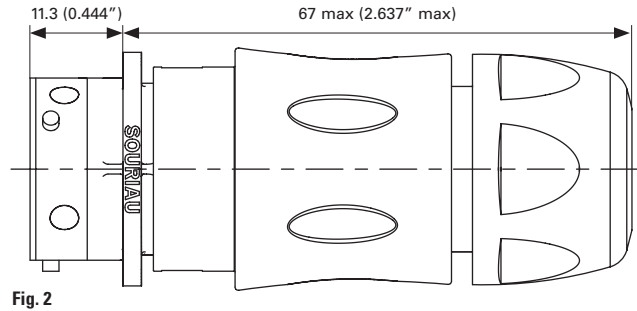
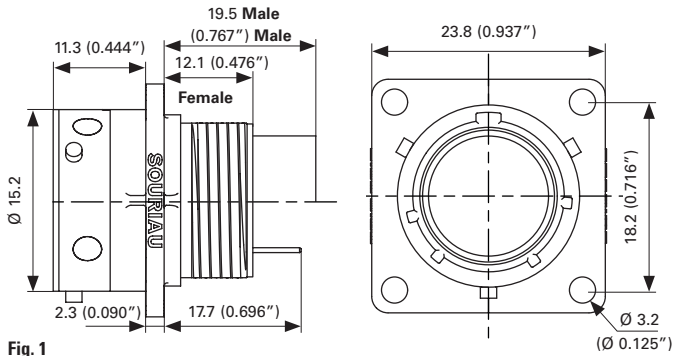
Note: Overmoulded cable assembly dimensions available **Page 143**

Souriau UTGX series

104 (Shell size 10, 4x#16)

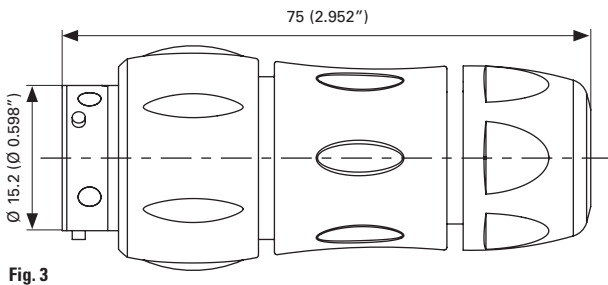
Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC



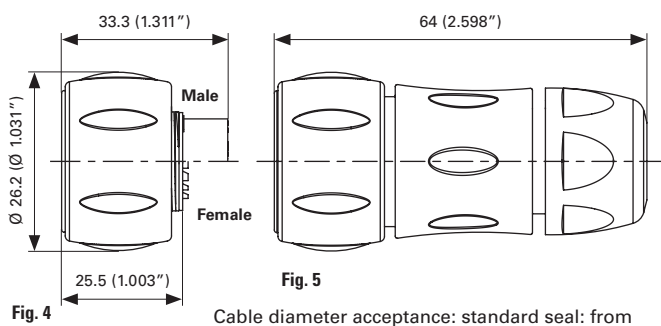
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 8 mm (0.314"), reduced seal: from 1.5 mm (0.059") to 5 mm (0.196")

Free hanging - UTGX1JC



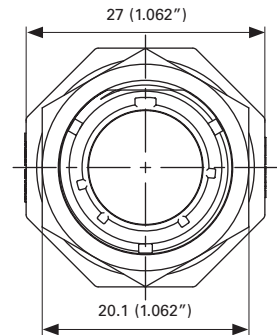
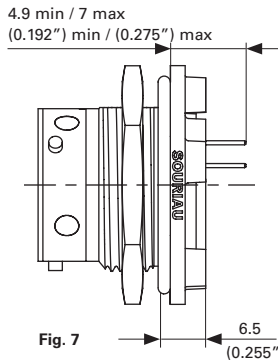
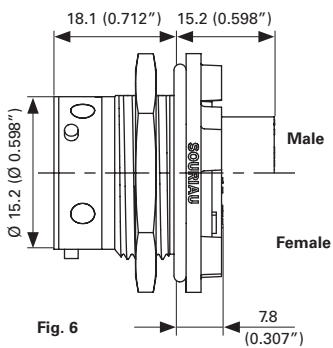
Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 8 mm (0.314"), reduced seal: from 1.5 mm (0.059") to 5 mm (0.196")

Plug - UTGX6 & UTGX6JC

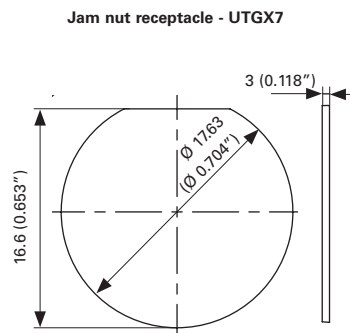
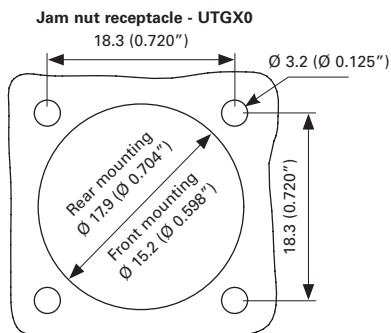


Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 8 mm (0.314"), reduced seal: from 1.5 mm (0.059") to 5 mm (0.196")

Jam nut receptacle UTGX7



Panel cut out



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX610DCG

Plastic protective cap



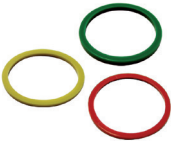
Part number receptacle cap	Part number plug cap
85005586A	85005595

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 UTGX series

104 (Shell size 10, 4x#16)

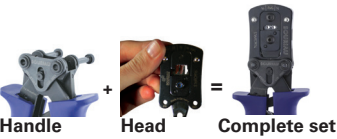
Tooling

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 1.6 mm	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 126**
(*) : Heads to be used with handle PN: SHANDLES

Extraction tool #16



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

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance (mm ²)	Cable acceptance (inch ²)	Part number Male	Part number Female	Max wire Ø (mm)	Max wire Ø (inch)	Max insulator Ø (mm)	Max insulator Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 133 to 134	—	—	RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 133 to 134	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 133 to 134	—	—	RMDXK10D28 + yox090	RCDXK1D28 + yox090	—	—	—	—
	Twisted pair monocrimp	see Pages 133 to 134	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

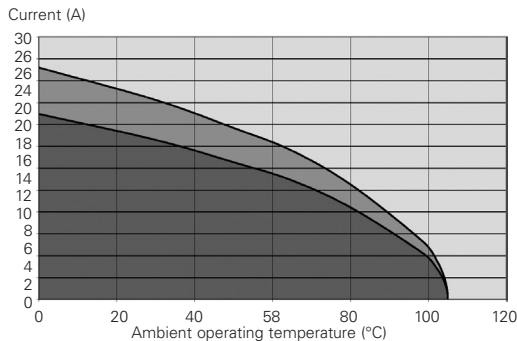
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see **Pages 133 or 134**

Electrical characteristics

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

UTGX 104 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 1.31 mm²

Derating curves based on continuous current application.

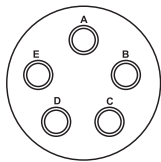
Souriau UTGX series

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



Connector part number

UTGX 14E5/14D5



5 contacts 12A/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 49	Square flange receptacle	Without (Fig. 1)	UTGX014E5P	UTGX014E5S
	Plug	Without (Fig. 2)	UTGX614E5P	UTGX614E5S
	Plug	Cable gland (Fig. 3)	UTGX6JC14E5P	UTGX6JC14E5S
	Jam nut receptacle	Without (Fig. 4)	UTGX714E5P	UTGX714E5S
PCB contacts loaded see Page 49	Square flange receptacle	Without (Fig. 2)	UTGX014D5P	UTGX014D5S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX714D5P	UTGX714D5S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX714D5P32	UTGX714D5S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size (mm²)	Wire size (inch²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
					Male plug	Female plug
Straight ending	Plug	1.5	0.059"	H05 VV - F 5x1.5	HAUTGX14E5PST1M	HAUTGX14E5SST1M
Right angle ending	Plug	1.5	0.059"	H05 VV - F 5x1.5	HAUTGX14E5PRA1M	HAUTGX14E5SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 143**

Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0

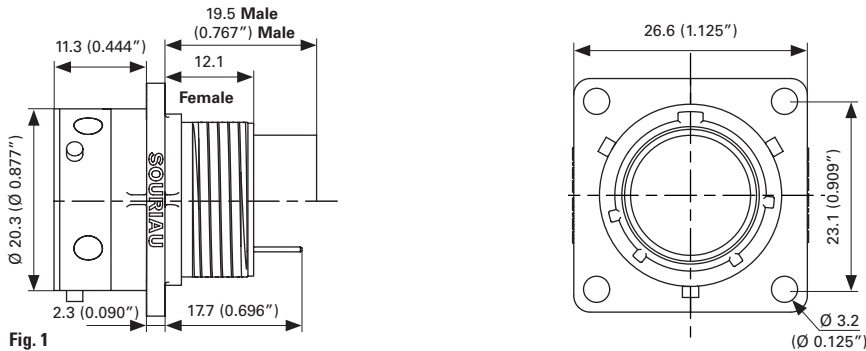


Fig. 1

Plug - UTGX6 & UTGX6JC

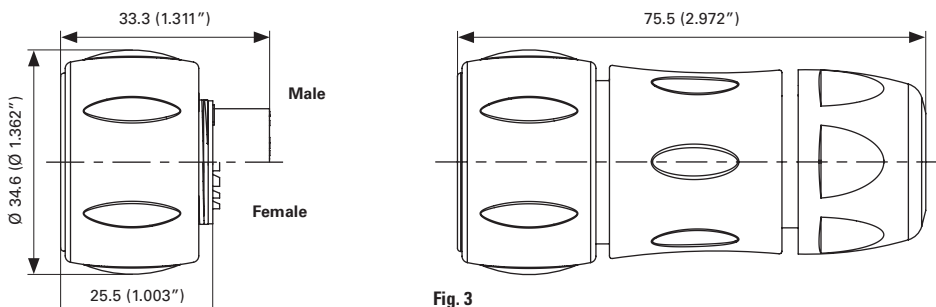


Fig. 2

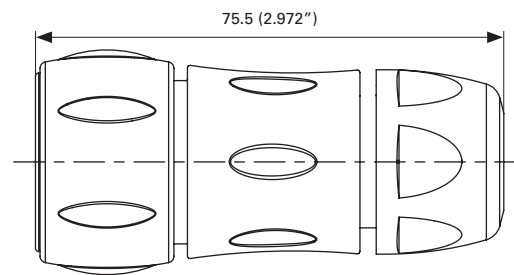


Fig. 3

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

Jam nut receptacle UTGX7

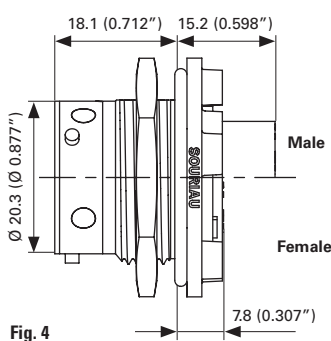


Fig. 4

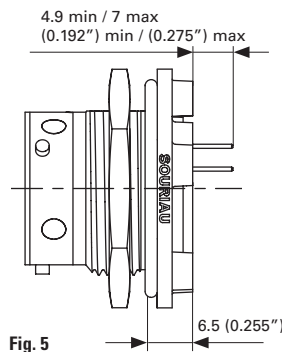


Fig. 5

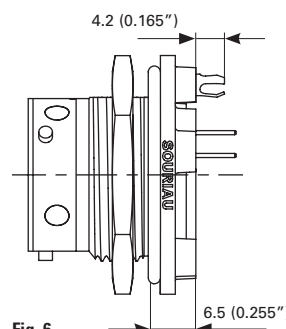
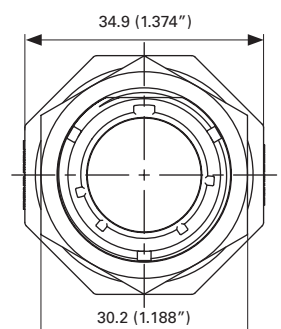
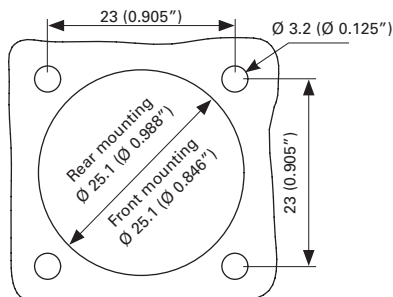


Fig. 6

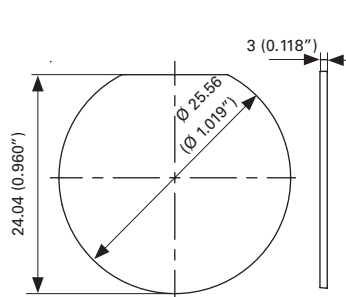


Panel cut out

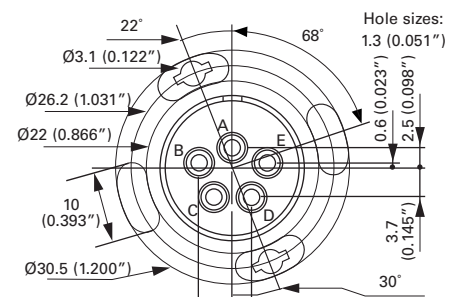
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap

Description	Part number
IP68/69K	UTX614DCG

Plastic protective cap

Part number receptacle cap	Part number plug cap
85005588A	85005597

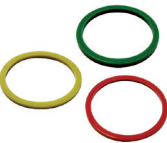


Gasket



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 (mm ²)	Cable acceptance (inch ²)	Wire stripping length
#16	Handsolder Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 - 14	0.823 - 2.08	0.032"-0.081"	5 mm (0.196")
	PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—

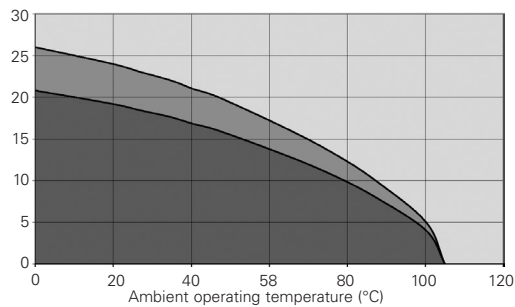
(1): For dimensions see **Pages 134 or 135**

Electrical characteristics

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

UTGX 14E5/14D5 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 1.31 mm²

Derating curves based on continuous current application.

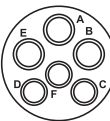
Souriau UTGX series

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



Connector part number

UTGX 103W3



6 contacts
13A/500V per UL1977 with
AWG16 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 54	Square flange receptacle	Without (Fig. 1)	UTGX0103W3P	UTGX0103W3S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC103P	UTGX0JC103S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC103W3P	UTGX1JC103W3S
	Plug	Without (Fig. 4)	UTGX6103W3P	UTGX6103W3S
	Plug	Cable gland (Fig. 5)	UTGX6JC103W3P	UTGX6JC103W3S
	Jam nut receptacle	Without (Fig. 6)	UTGX7103W3P	UTGX7103W3S
PCB contacts supplied separately see Page 54	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTGX7103W3P	UTGX7103W3S

Dimensions in mm/inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

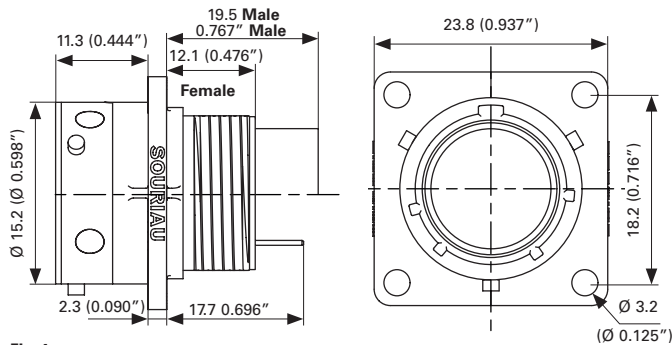


Fig. 1

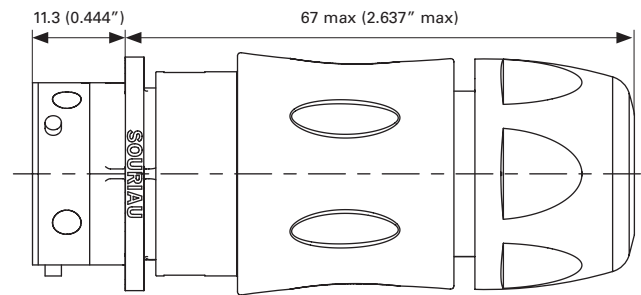


Fig. 2

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

Free hanging - UTGX1JC

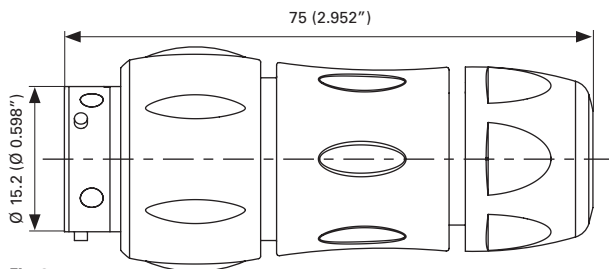


Fig. 3

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

Plug - UTGX6 & UTGX6JC

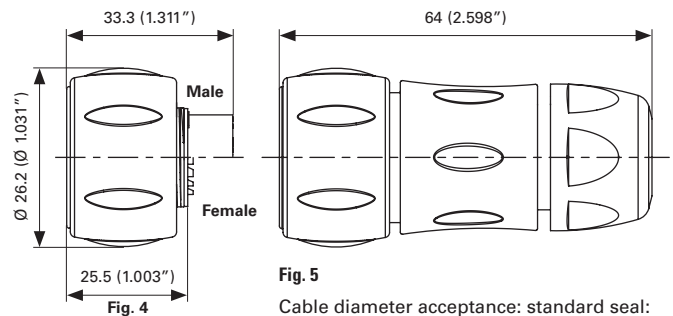


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

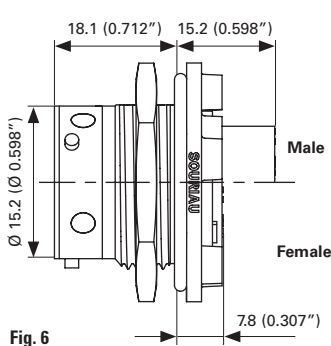


Fig. 6

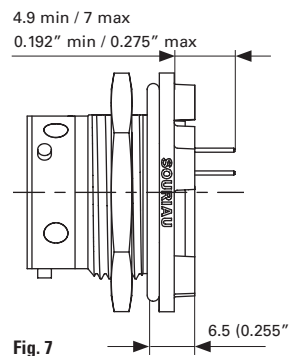
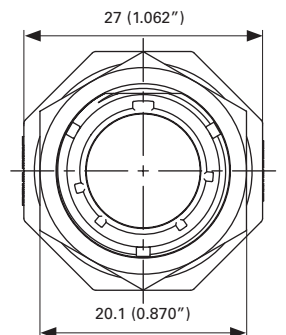
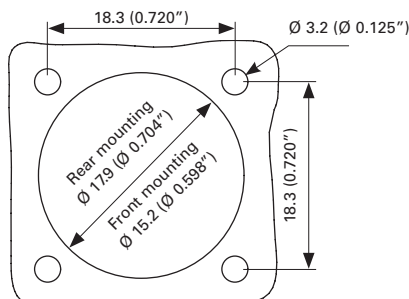


Fig. 7

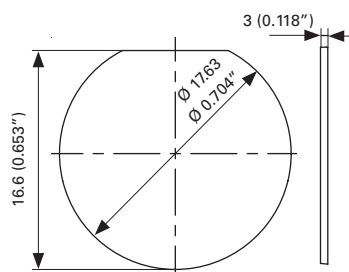


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX610DCG

Plastic protective cap



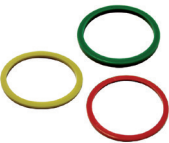
Part number receptacle cap	Part number plug cap
85005586A	85005595

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

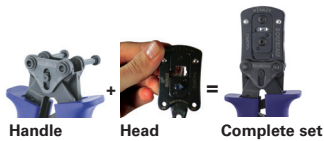
Tooling

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 #16 Ø 1.6 mm	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 1 mm	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*

Extraction tool #16

Fig. 1



Fig. 2



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

Souriau UTGX series

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

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
		22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
		18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
		18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
		14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 133 to 134			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 133 to 134			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 133 to 134			RMDXK10D28 + yorr090	RCDXK1D28 + yorr090	—	—	—	—
	Twisted pair monocrimp	see Pages 133 to 134			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

(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 **Pages 133 or 134**

Contacts #20

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24W3K	RC24W3K	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.15	0.045"	1.80	0.070"
	Machined	20-18	0.50-0.82	0.019"-0.032"	RM18W3K	RC18W3K	1.30	0.051"	2.10	0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
		26-24	0.13-0.25	0.005"-0.009"	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
		22-20	0.32-0.50	0.012"-0.019"	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"

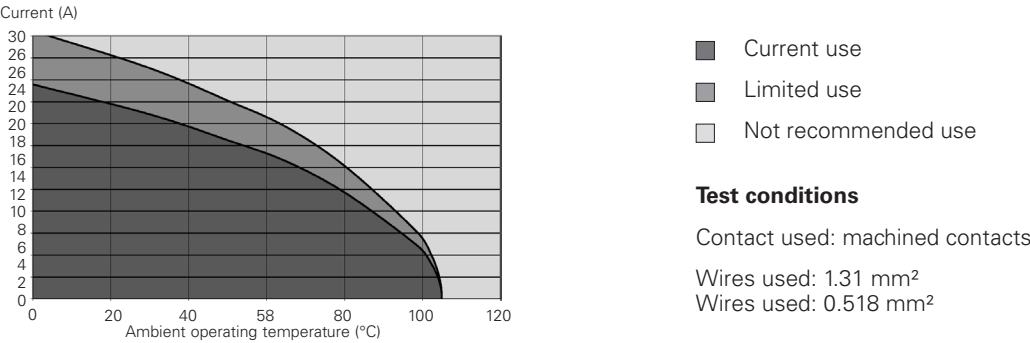
(1): Example of plating, for other plating see **Page 126**

(2): 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 7.5A 250V with AWG20	7A 500V with AWG 16 2.5A 250V with AWG20	5A 32V 1.5kV 3 temperature elevation: 50°C

UTGX 103W3 derating curves



Derating curves based on continuous current application.

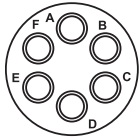
Souriau UTGX series

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



Connector part number

UTGX 106



6 contacts 4.5A/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 62	Square flange receptacle	Without (Fig. 1)	UTGX0106P	UTGX0106S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC106P	UTGX0JC106S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC106P	UTGX1JC106S
	Plug	Without (Fig. 4)	UTGX6106P	UTGX6106S
	Plug	Cable gland (Fig. 5)	UTGX6JC106P	UTGX6JC106S
	Jam nut receptacle	Without (Fig. 6)	UTGX7106P	UTGX7106S
PCB contacts supplied separately see Page 62	Jam nut receptacle	Without (Fig. 7)	UTGX7106P	UTGX7106S
Hand solder electrical contacts loaded	Square flange receptacle	Without (Fig. 1)	UTGX010E6P	UTGX010E6S
	Plug	Without (Fig. 4)	UTGX610E6P	UTGX610E6S
	Plug	Cable gland (Fig. 5)	UTGX6JC10E6P	UTGX6JC10E6S
	Jam nut receptacle	Without (Fig. 6)	UTGX710E6P	UTGX710E6S
PCB contacts supplied separately see Page 62	Jam nut receptacle	Without (Fig.7)	UTGX710E6P	UTGX710E6S
PCB contacts loaded see Page 62	Square flange receptacle	Without (Fig.1)	UTGX010D6P	UTGX010D6S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.8)	UTGX710D6P	UTGX710D6S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig.8)	UTGX710D6P32	UTGX710D6S32

For discrimination/keying methods see **Page 151**

Sealed unmatred

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)* Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 6x0.5	HAUTGX106PST1M	HAUTGX106SST1M
	Plug	0.5	H05 VV - F 6x0.5	HAUTGX10E6PRA1M	HAUTGX10E6SRA1M
Right angle ending	Plug	0.5	H05 VV - F 6x0.5	HAUTGX106PRA1M	HAUTGX106SRA1M
	Plug	0.5	H05 VV - F 6x0.5	HAUTGX10E6PRA1M	HAUTGX10E6SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 142**

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

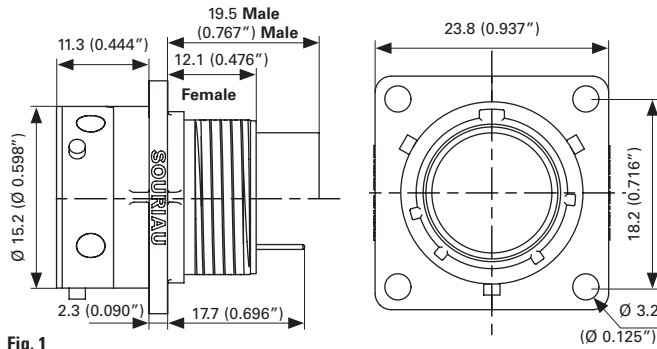


Fig. 1

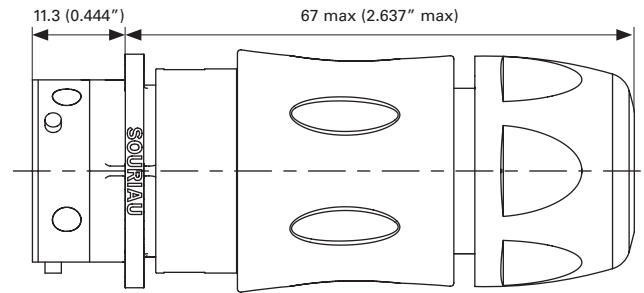


Fig. 2

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

Free hanging - UTGX1JC

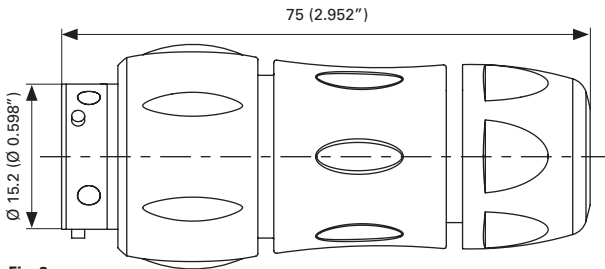


Fig. 3

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

Plug - UTGX6 & UTGX6JC

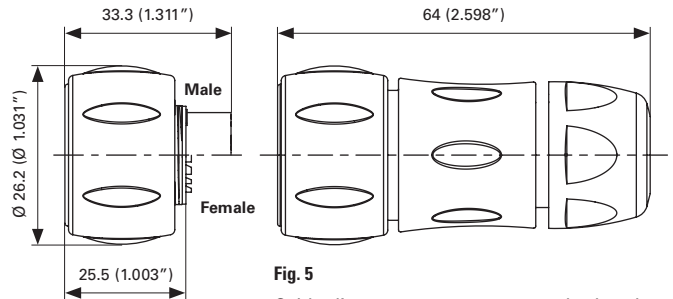


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

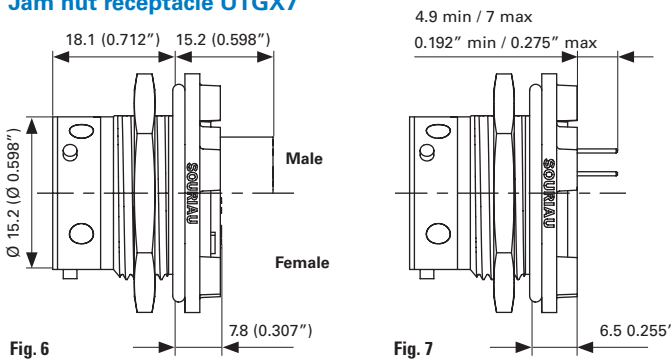


Fig. 6

Fig. 7

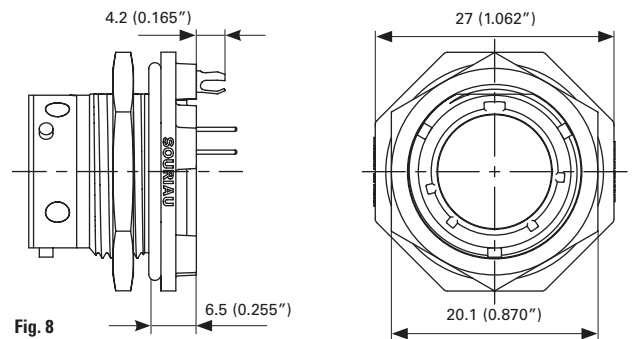
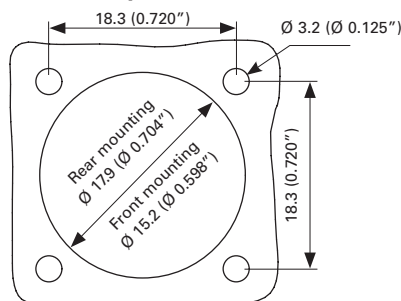


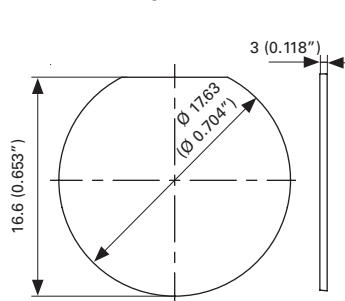
Fig. 8

Panel cut out

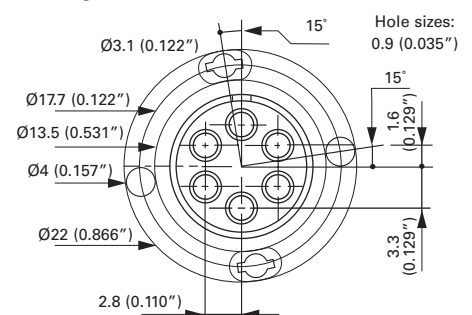
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling Pattern



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX610DCG

Plastic protective cap



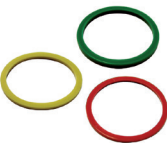
Part number receptacle cap	Part number plug cap
85005586A	85005595

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



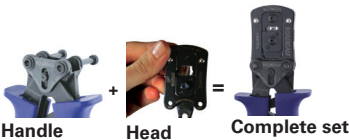
Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 1 mm	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 129**
(2): Loose contact
(*) : Heads to be used with handle PN: SHANDLES



Extraction tool #20



Description	Part number
Contacts #20	RX20D44

Souriau UTGX series

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

Contacts #20

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24W3K	RC24W3K	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.15	0.045"	1.80	0.070"
	Machined	20-18	0.50-0.82	0.019"-0.032"	RM18W3K	RC18W3K	1.30	0.051"	2.10	0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"

(1): Example of plating, for other plating see **Page 126**

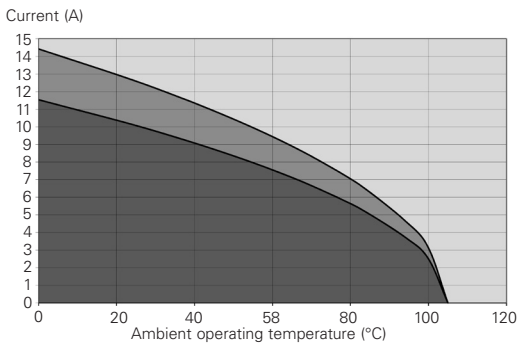
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

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

Electrical characteristics

UL	CSA	IEC
UTGX 106 4.5A 250V with AWG20 wire	3A 250V with AWG20 wire	7A 32V 1.5kV 3
UTGX 10E6/10D6 6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 32V 1.5kV 3

UTGX 106 - 10E6/10D6 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

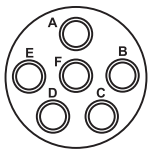
Wires used: 0.518 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 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 66	Square flange receptacle	Without (Fig. 1)	UTGX010E98P	UTGX010E98S
	Plug	Without (Fig. 5)	UTGX610E98P	UTGX610E98S
	Plug	Cable gland (Fig. 3)	UTGX6JC10E98P	UTGX6JC10E98S
	Jam nut receptacle	Without (Fig. 4)	UTGX710E98P	UTGX710E98S
PCB contacts loaded see page 66	Square flange receptacle	Without (Fig. 2)	UTGX010D98P	UTGX010D98S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX710D98P	UTGX710D98S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX710D98P32	UTGX710D98S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm ²)	(inch ²)		Male plug	Female plug
Straight ending	Plug	0.5	0.019	H05 VV - F 6x0.5	HAUTGX10E98PST1M	HAUTGX10E98SST1M
Right angle ending	Plug	0.5	0.019	H05 VV - F 6x0.5	HAUTGX10E98PRA1M	HAUTGX10E98SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

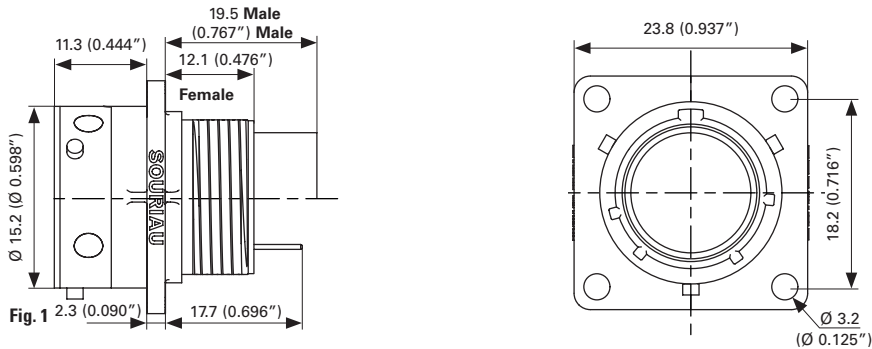
Note: Overmoulded cable assembly dimensions available **Page 143**

Souriau UTGX series

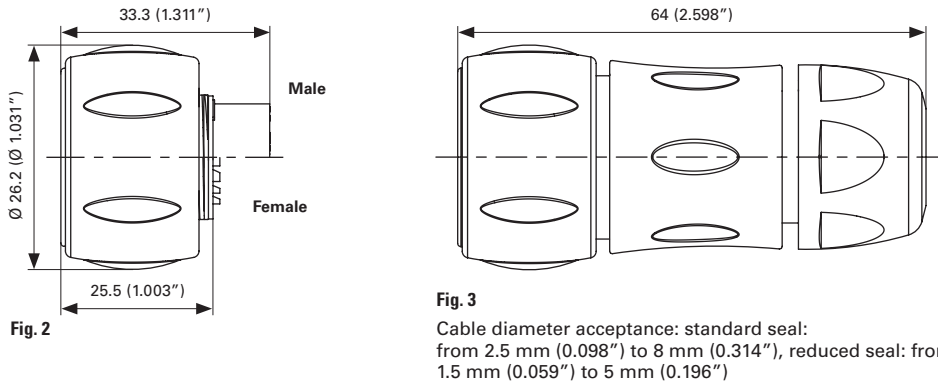
10E98/10D98 (Shell size 10, 6x#20)

Dimensions in mm / inch (For mated connector lengths see Page 142)

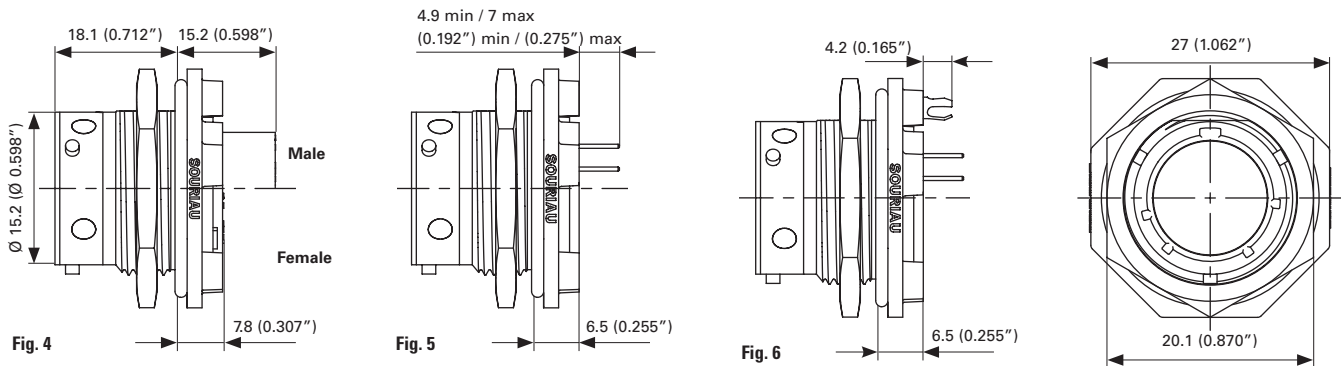
Square flange receptacle - UTGX0



Plug - UTGX6 & UTGX6JC

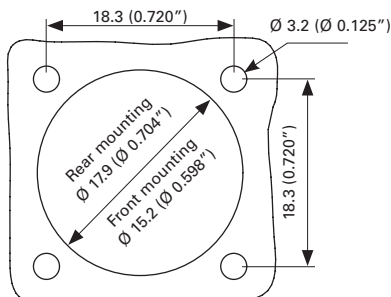


Jam nut receptacle UTGX7

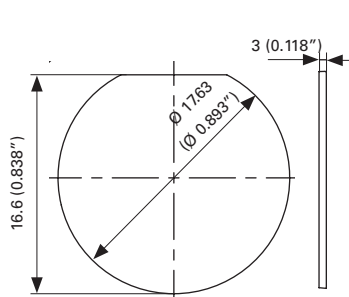


Panel cut out

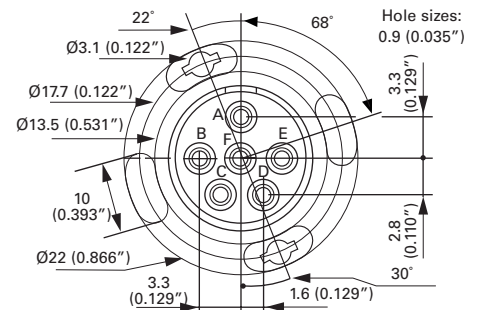
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68/69K	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 UTGX series

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

Contacts #20

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24W3K	RC24W3K	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.15	0.045"	1.80	0.070"
	Machined	20-18	0.50-0.82	0.019"-0.032"	RM18W3K	RC18W3K	1.30	0.051"	2.10	0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"

(1): Example of plating, for other plating see **Page 126**

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

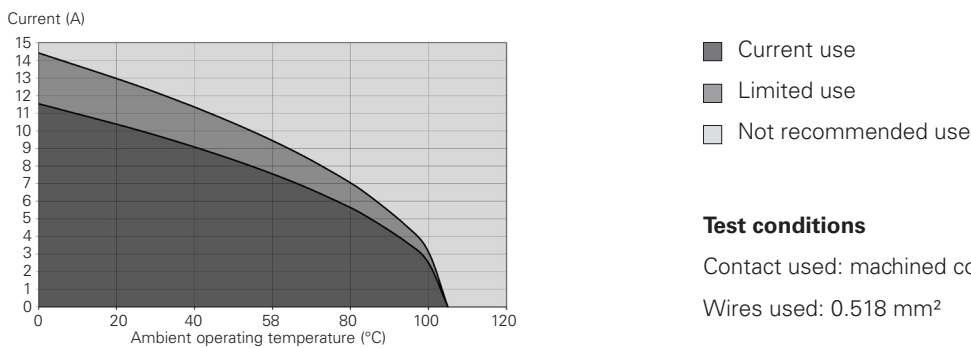
Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length (mm)
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	3.8

Electrical characteristics

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

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

UTGX 10E98/10D98 derating curves

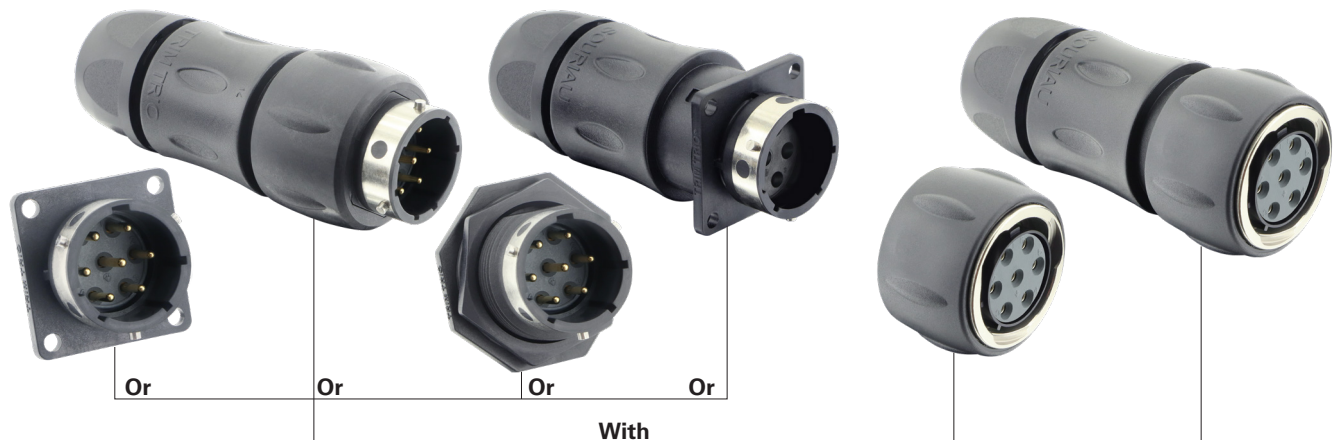


Test conditions

Contact used: machined contacts

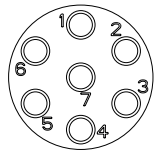
Wires used: 0.518 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 147



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

14E7/14D7

6 contacts + ground
12A/600V per UL 1977
with AWG16 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)	UTGX0147P	UTGX0147S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC147P	UTGX0JC147S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC147P	UTGX1JC147S
	Plug	Without (Fig. 4)	UTGX6147P	UTGX6147S
	Plug	Cable gland (Fig. 5)	UTGX6JC147P	UTGX6JC147S
	Jam nut receptacle	Without (Fig. 6)	UTGX7147P	UTGX7147S
Screw contacts loaded	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC147PSCR	UTGX1JC147SSCR
	Plug	Cable gland (Fig. 5)	UTGX6JC147PSCR	UTGX6JC147SSCR
	Jam nut receptacle	Without (Fig. 9)	UTGX7147PSCR	UTGX7147SSCR
PCB contacts supplied separately (see Page 69)	Square flange receptacle	Without (Fig. 1)	UTGX0147P	UTGX0147S
Handsolder electrical contacts loaded see Page 69	Square flange receptacle	Without (Fig. 1)	UTGX014E7P	UTGX014E7S
	Plug	Without (Fig. 4)	UTGX614E7P	UTGX614E7S
	Plug	Cable gland (Fig. 5)	UTGX6JC14E7P	UTGX6JC14E7S
	Jam nut receptacle	Without (Fig. 6)	UTGX714E7P	UTGX714E7S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTGX014D7P	UTGX014D7S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTGX714D7P	UTGX714D7S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTGX714D7P32	UTGX714D7S32

Sealed unmatred

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm ²)	(inch ²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059	H05 VV - F 7x1.5	HAUTGX147PST1M	HAUTGX147SST1M
	Plug	1.5	0.059	H05 VV - F 7x1.5	HAUTGX14E7PRA1M	HAUTGX14E7SRA1M
Right angle ending	Plug	1.5	0.059	H05 VV - F 7x1.5	HAUTGX147PRA1M	HAUTGX147SRA1M
	Plug	1.5	0.059	H05 VV - F 7x1.5	HAUTGX14E7PRA1M	HAUTGX14E7SRA1M

(1) Other cable available on demand

(*) Other lengths available on demand

Note: Overmoulded cable assembly dimensions available page 144

Souriau UTGX series

147/14E7 (Shell size 14, 7 x #16)

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

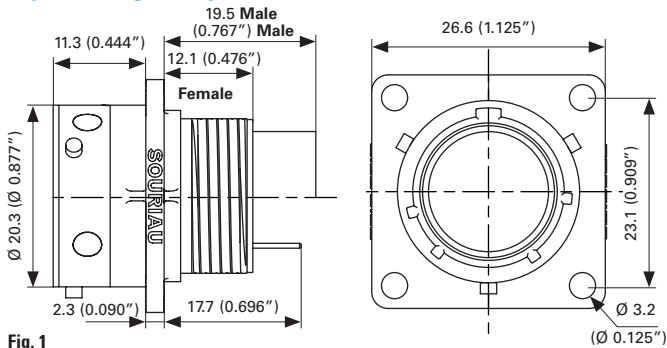


Fig. 1

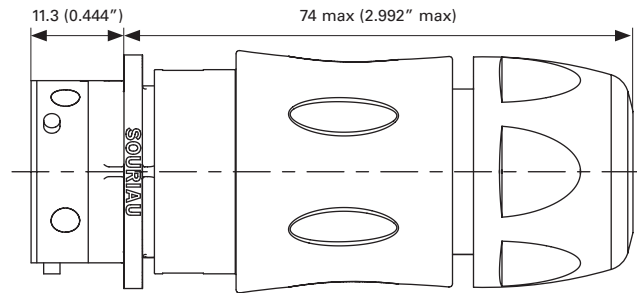


Fig. 2

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

Free hanging - UTGX1JC

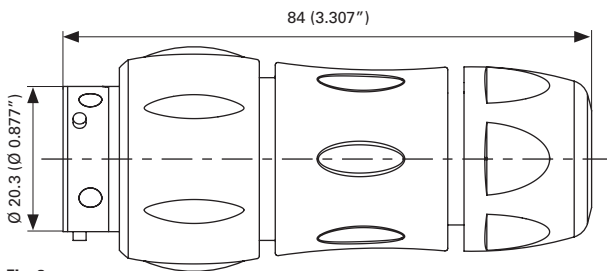


Fig. 3

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

Plug - UTGX6 & UTGX6JC

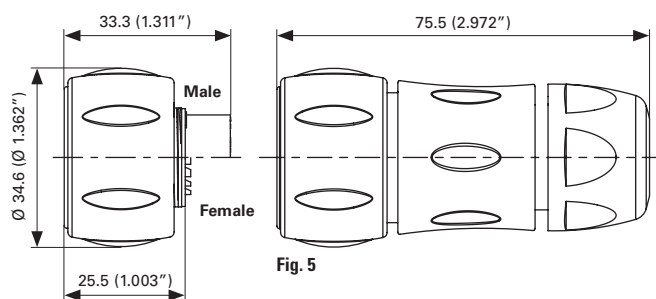


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

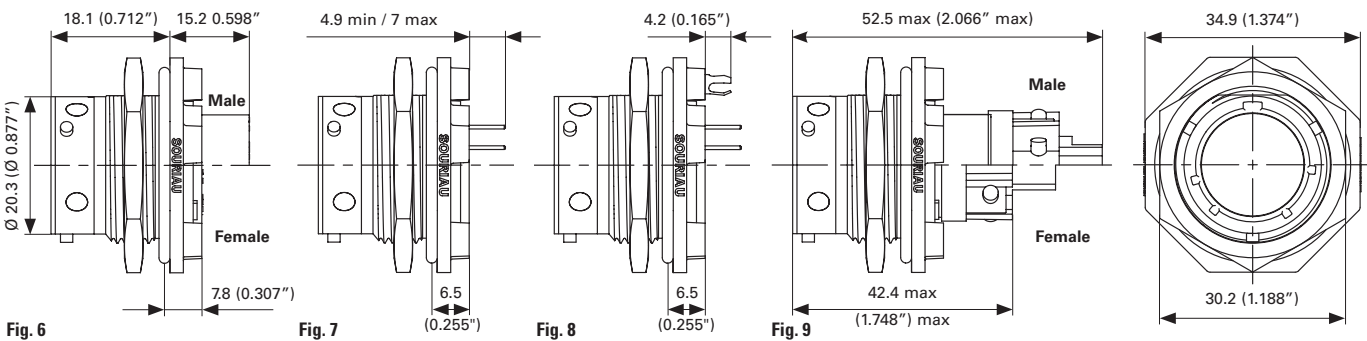


Fig. 6

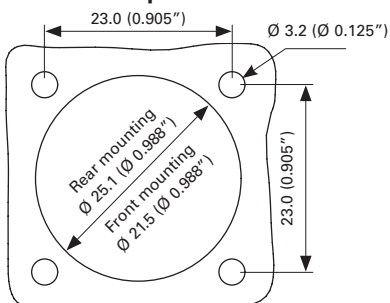
Fig. 7

Fig. 8

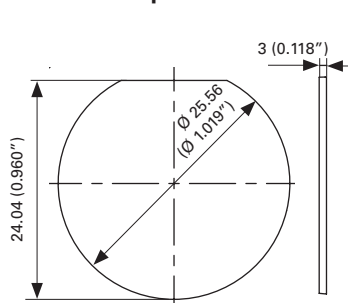
Fig. 9

Panel cut out

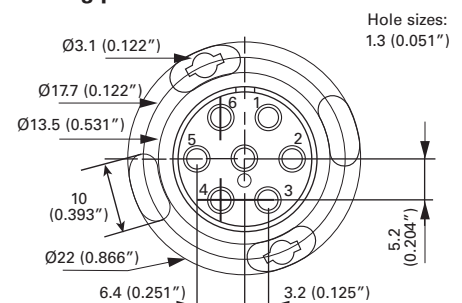
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX614DCG

Plastic protective cap



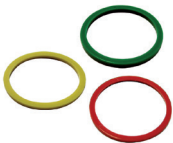
Part number receptacle cap	Part number plug cap
85005588A	85005597

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 UTGX series

147/14E7 (Shell size 14, 7 x #16)

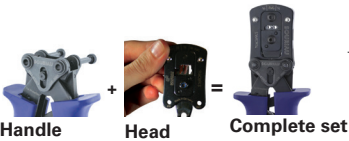
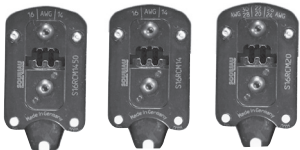
Tooling

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 1.6 mm	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*

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 Male	Part number Female	Max wire		Max insulator	
		(AWG)	(mm ²) (inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08 0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25 0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50 0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50 0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48 0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48 0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25 0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50 0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48 0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48 0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48 0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 131 to 132		RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 131 to 132		RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 131 to 132		RM/ 55DXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Pages 131 to 132		RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	RMPOF1000	RCPOF1000B	—	—	—	—
Handsolder	Loaded in the connector	14-18	2.48-0.80	—	—	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

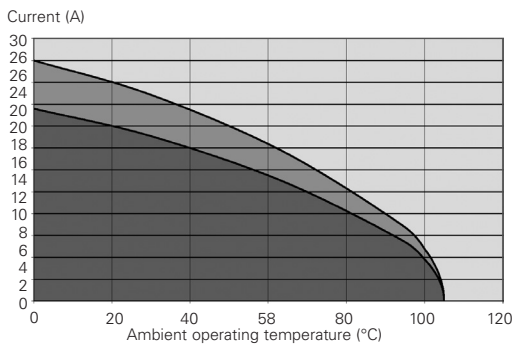
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see **Pages 133 or 134**

Electrical characteristics

UL	CSA	IEC
UTGX 147 10A 500V with AWG16 wire	7A 500V with AWG16 wire	7A 150V 1.5kV 3
UTGX 14E7/14D7 12A 600V with AWG16 wire	12A 600V with AWG16 wire	7A 150V 1.5kV 3

UTGX 147 - 14E7/14D7 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 1.31 mm²

Derating curves based on continuous current application.

Souriau UTGX series

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



Connector part number

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hand solder electrical contacts loaded see Page 75	Square flange receptacle	Without (Fig. 1)	UTGX010E7P	UTGX010E7S
	Plug	Without (Fig. 5)	UTGX610E7P	UTGX610E7S
	Plug	Cable gland (Fig. 3)	UTGX6JC10E7P	UTGX6JC10E7S
	Jam nut receptacle	Without (Fig. 4)	UTGX710E7P	UTGX710E7S
PCB contacts loaded see Page 75	Square flange receptacle	Without (Fig. 2)	UTGX010D7P	UTGX010D7S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX710D7P	UTGX710D7S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX710D7P32	UTGX710D7S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm²)	(inch²)		Male plug	Female plug
Straight ending	Plug	0.5	0.019	H05 VV - F 7x0.5	HAUTGX10E7PST1M	HAUTGX10E7SST1M
Right angle ending	Plug	0.5	0.019	H05 VV - F 7x0.5	HAUTGX10E7PRA1M	HAUTGX10E7SRA1M

(1): Other cable available on demand
(*) : Other lengths available on demand

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0

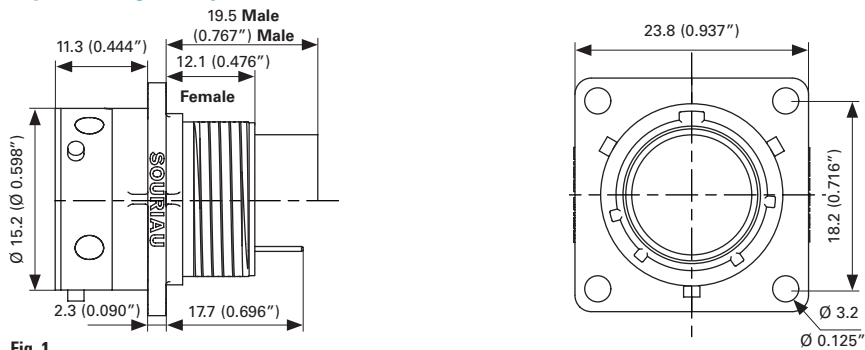


Fig. 1

Plug - UTGX6 & UTGX6JC

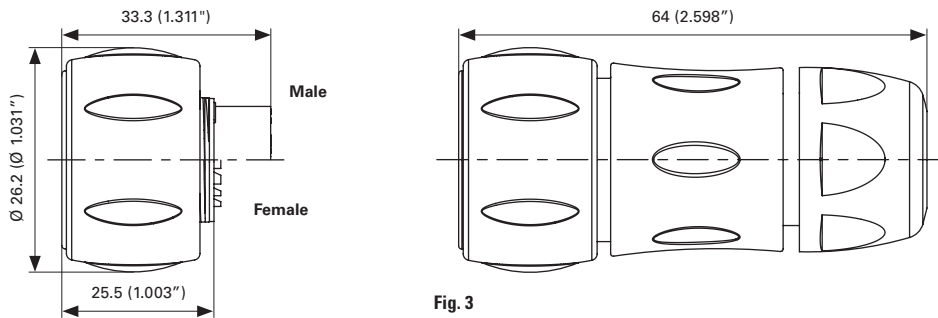


Fig. 2

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

Jam nut receptacle UTGX7

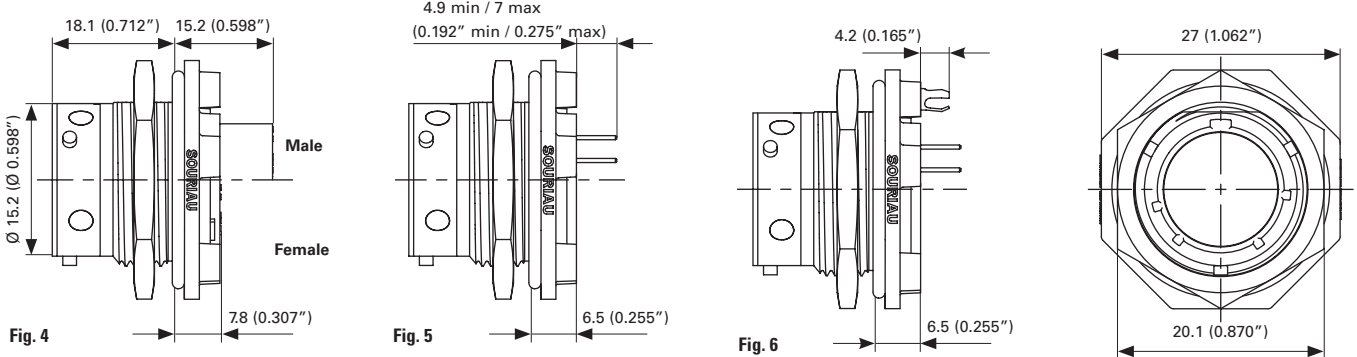


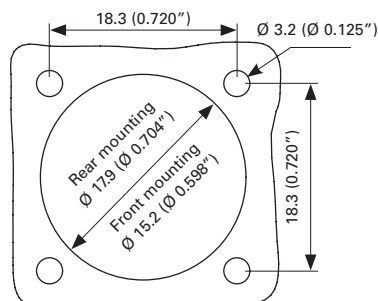
Fig. 4

Fig. 5

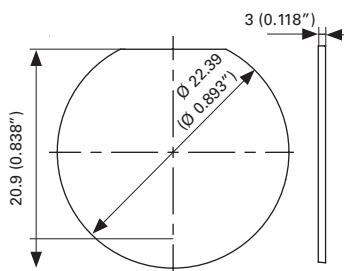
Fig. 6

Panel cut out

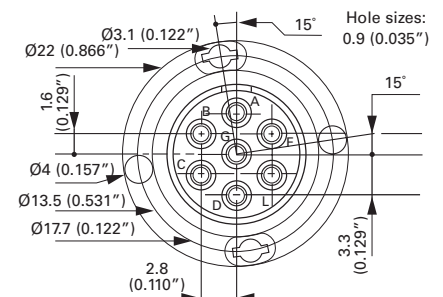
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS10DCG
IP68/69K - Metal terminal	UTS10DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS10DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX610DCG

Plastic protective cap



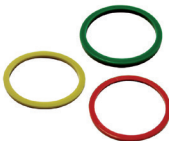
Part number receptacle cap	Part number plug cap
85005586A	85005595

Gasket



Part number
UTFD12B

Color coding rings



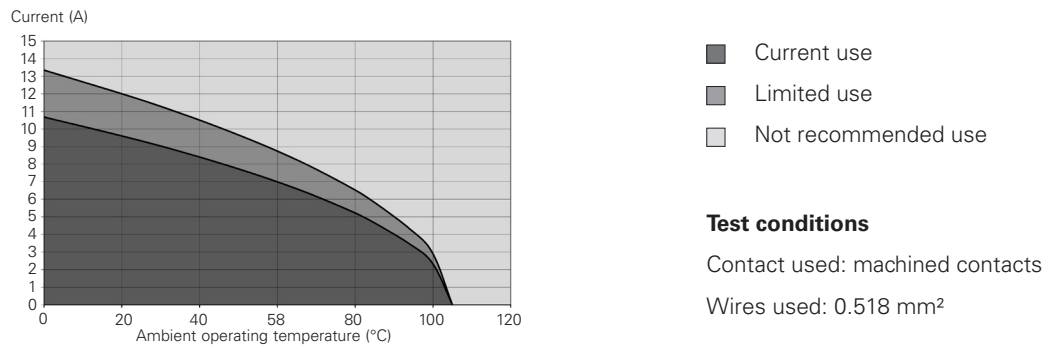
Description	Part number receptacles	Part number plugs
G for Green	UTS710CCRG	UTS610CCRG
Y for Yellow	UTS710CCRY	UTS610CCRY
R for Red	UTS710CCRR	UTS610CCRR

Contacts #20

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

Electrical characteristics

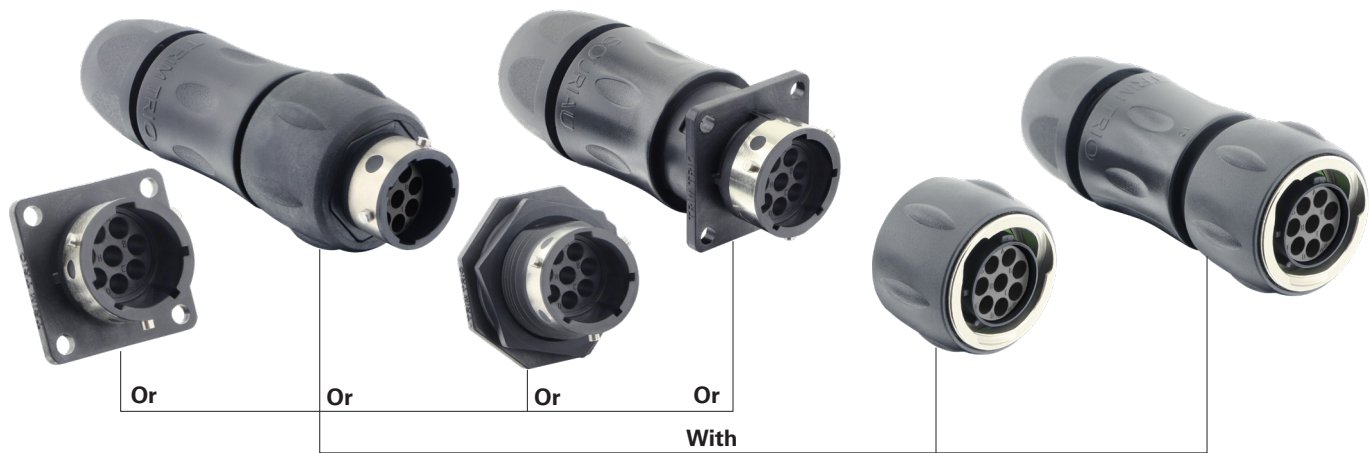
UL	CSA	IEC
6A 250V with AWG20 wire	6A 250V with AWG20 wire	7A 50V 1.5kV 3

UTGX 10E7/10D7 derating curves

Derating curves based on continuous current application.

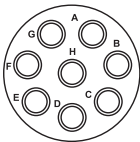
Souriau UTGX series

128 (Shell size 12, 8x16)



Connector part number

UTGX 128



6 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 78	Square flange receptacle	Without (Fig. 1)	UTGX0128P	UTGX0128S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC128P	UTGX0JC128S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC128P	UTGX1JC128S
	Plug	Without (Fig. 4)	UTGX6128P	UTGX6128S
	Plug	Cable gland (Fig. 5)	UTGX6JC128P	UTGX6JC128S
	Jam nut receptacle	Without (Fig. 6)	UTGX7128P	UTGX7128S
PCB contacts supplied separately see Page 78	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTGX7128P	UTGX7128S

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm²)	(inch²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059	H05 VV - F 3x1.5	HAUTGX128PST1M	HAUTGX128SST1M
Right angle ending	Plug	1.5	0.059	H05 VV - F 3x1.5	HAUTGX128PRA1M	HAUTGX128SRA1M

(1): Other cable available on demand
(*): Other lengths available on demand

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

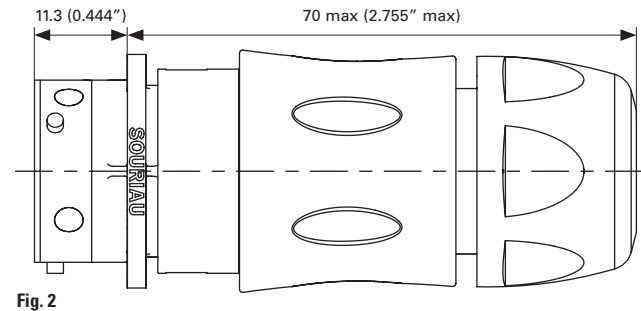
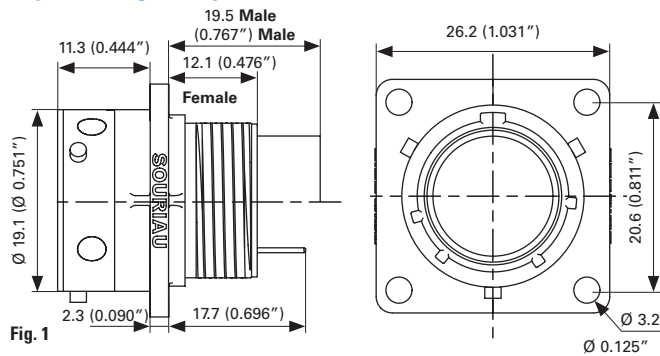


Fig. 2
Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from
3 mm (0.118") to 9 mm (0.354")

Free hanging - UTGX1JC

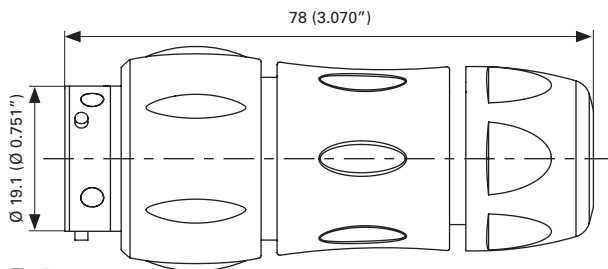


Fig. 3
Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from 3 mm
(0.118") to 9 mm (0.354")

Plug - UTGX6 & UTGX6JC

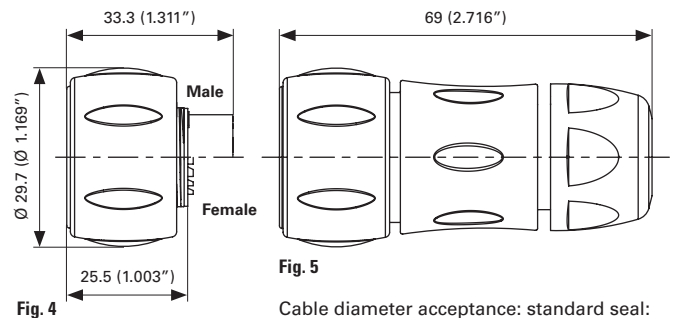
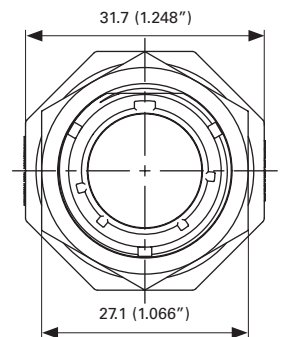
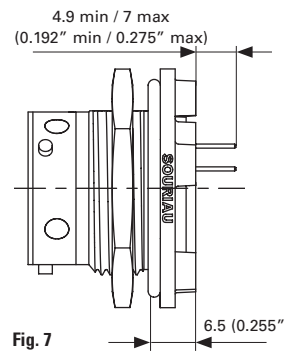
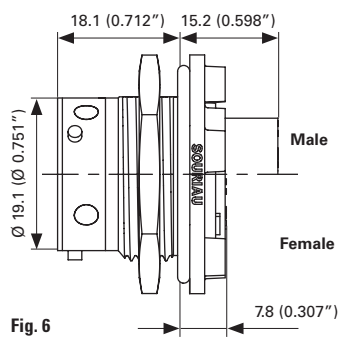


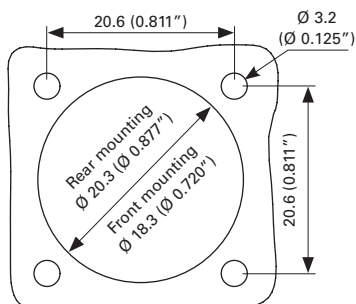
Fig. 5
Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from 3 mm
(0.118") to 9 mm (0.354")

Jam nut receptacle UTGX7

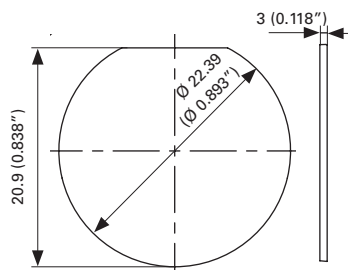


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Souriau UTGX series

128 (Shell size 12, 8x16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	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

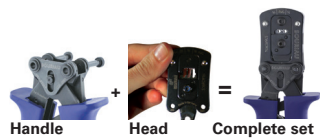
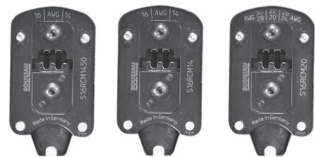
Tooling

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 1.6 mm	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*
Standard contacts #20 Ø 1 mm	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 128**

(2): Loose contact

(*): Heads to be used with handle PN: SHANDLES

Extraction tool #16

Fig. 1



Fig. 2



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

Souriau UTGX series

128 (Shell size 12, 8x16)

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 131 to 132			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 131 to 132			RM/55DXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—
Handsold	Loaded in the connector	14-18	2.48-0.80	—	—	—	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

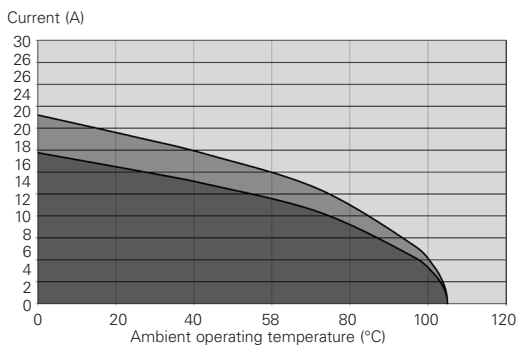
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see **Pages 133 or 134**

Electrical characteristics

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

UTGX 128 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

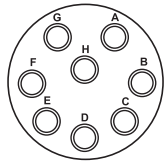
Wires used: 1.31 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 12E8/12D8



8 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 82	Square flange receptacle	Without (Fig. 1)	UTGX012E8P	UTGX012E8S
	Plug	Without (Fig. 2)	UTGX612E8P	UTGX612E8S
	Plug	Cable gland (Fig. 3)	UTGX6JC12E8P	UTGX6JC12E8S
	Jam nut receptacle	Without (Fig. 4)	UTGX712E8P	UTGX712E8S
PCB contacts loaded see Page 82	Square flange receptacle	Without (Fig. 1)	UTGX012D8P	UTGX012D8S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX712D8P	UTGX712D8S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX712D8P32	UTGX712D8S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm ²)	(inch ²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059"	H05 VV - F 3x1.5	HAUTGX12E8PST1M	HAUTGX12E8SST1M
Right angle ending	Plug	1.5	0.059"	H05 VV - F 3x1.5	HAUTGX12E8PRA1M	HAUTGX12E8SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

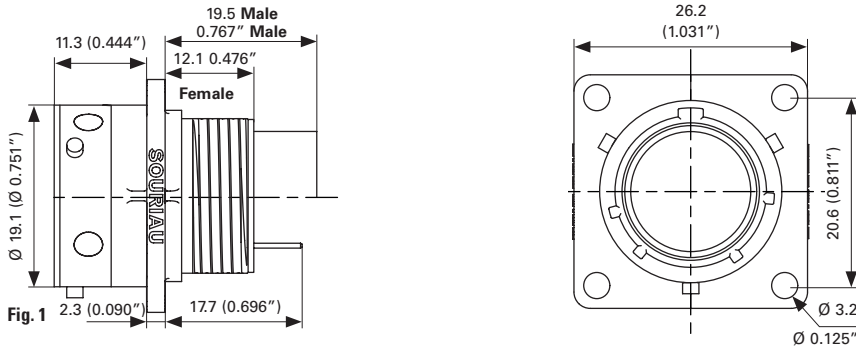
Note: Overmoulded cable assembly dimensions available **Page 142**

Souriau UTGX series

12E8/12D8 (Shell size 12, 8x20)

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0



Plug - UTGX6 & UTGX6JC

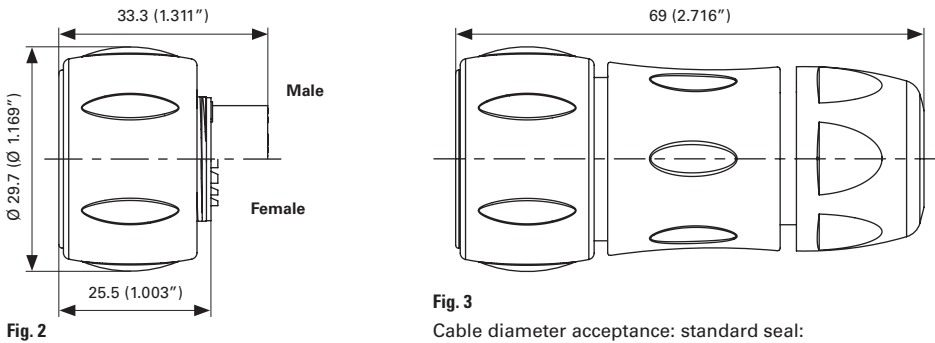
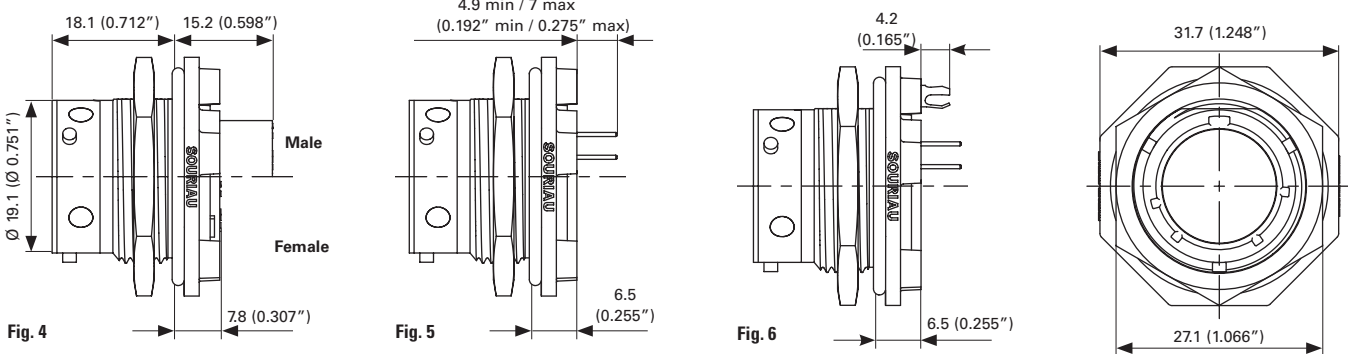


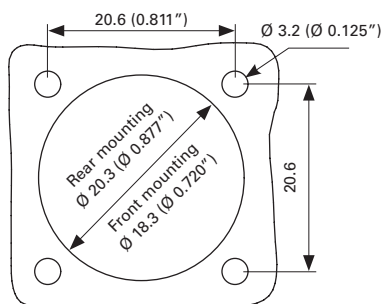
Fig. 3
Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from
3 mm (0.118") to 9 mm (0.354")

Jam nut receptacle UTGX7

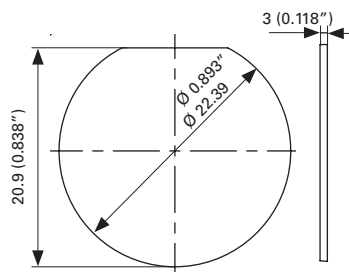


Panel cut out

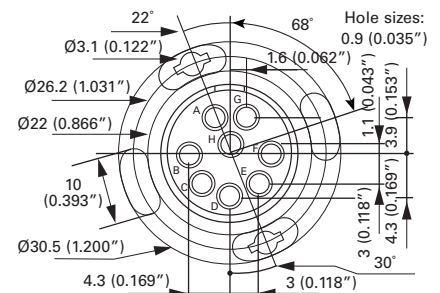
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	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 UTGX series

12E8/12D8 (Shell size 12, 8x20)

Contacts #20

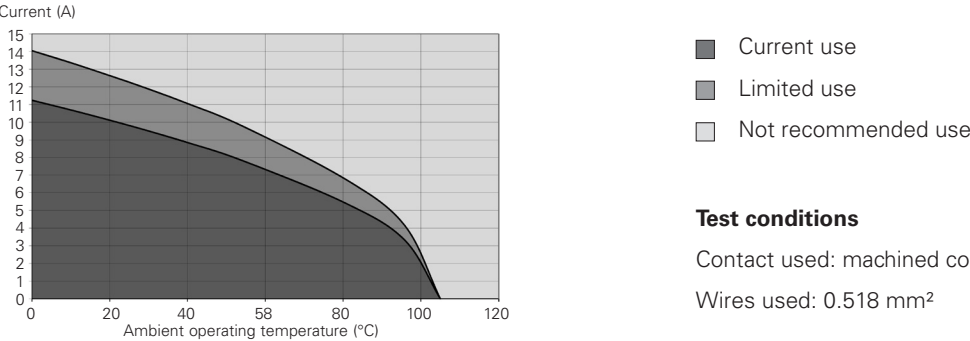
Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length (mm)
Handsolder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	3.8
PCB	Machined ⁽¹⁾	Min 0.4µ gold over 0.8µ Ni	–	–

(1): For dimensions see **Pages 133 or 134**

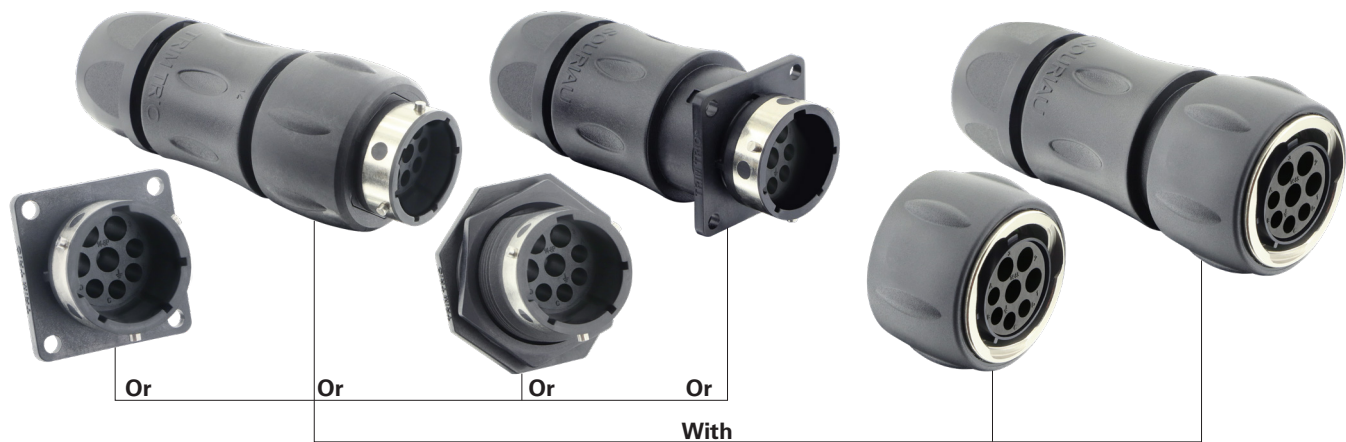
Electrical characteristics

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

UTGX 12E8/12D8 derating curves

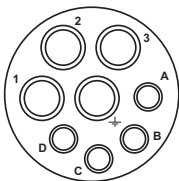


Derating curves based on continuous current application.



Connector part number

UTGX 148



8 contacts
25A 600V per UL1977
with AWG14 wire
5A 600V per UL1977
AWG20 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)	UTGX0148P	UTGX0148S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC148P	UTGX0JC148S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC148P	UTGX1JC148S
	Plug	Without (Fig. 4)	UTGX6148P	UTGX6148S
	Plug	Cable gland (Fig. 5)	UTGX6JC148P	UTGX6JC148S
	Jam nut receptacle	Without (Fig. 6)	UTGX7148P	UTGX7148S

Souriau UTGX series

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

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

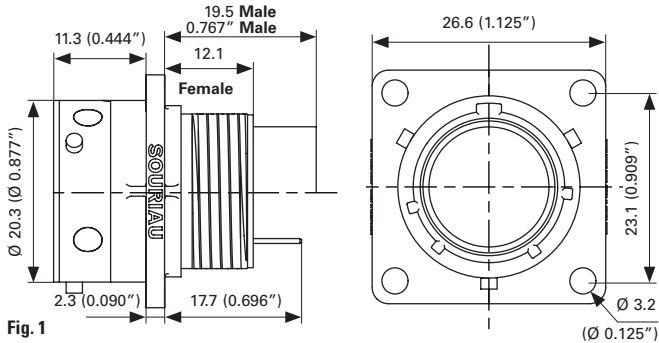


Fig. 1

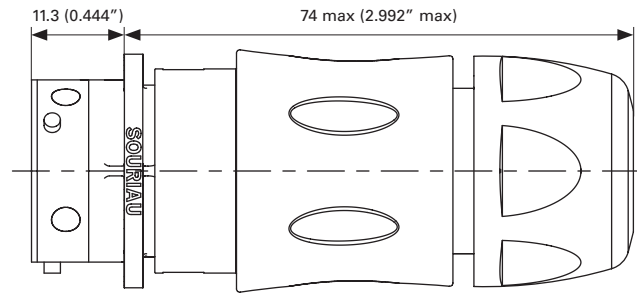


Fig. 2

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

Free hanging - UTGX1JC

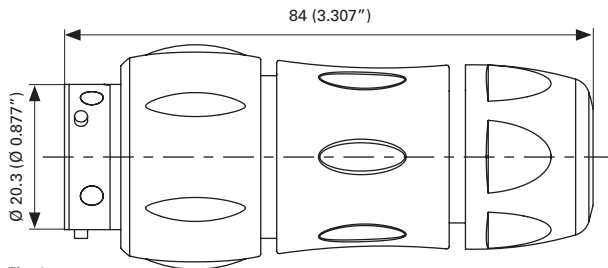


Fig. 3

Cable diameter acceptance: standard seal:
from 7 mm to 14 mm, reduced seal: from 5 mm to 12 mm

Plug - UTGX6 & UTGX6JC

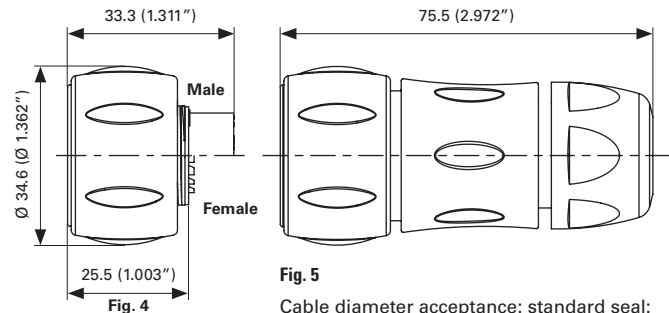


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

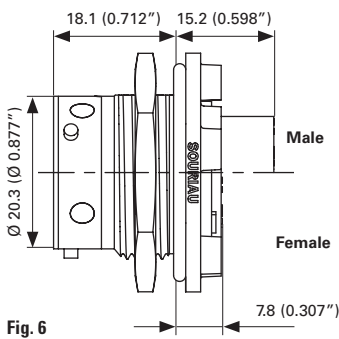
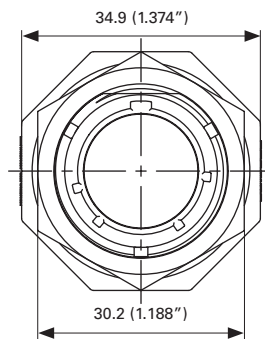
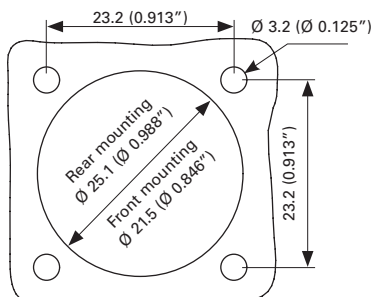


Fig. 6

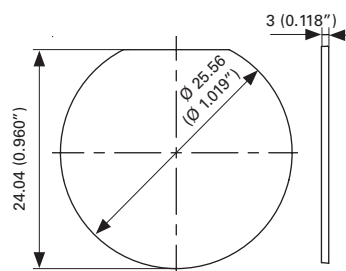


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX614DCG

Plastic protective cap



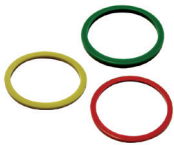
Part number receptacle cap	Part number plug cap
85005588A	85005597

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 UTGX series

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

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 1.6 mm	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*

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 2.4 mm	M317	VGE10077A

Extraction tool #20



Description	Part number
Contacts #12	51060210924

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance (mm ²)	Cable acceptance (inch ²)	Part number Male	Part number Female	Max wire Ø (mm)	Ø (inch)	Max insulator Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 131 to 132			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 131 to 132			RM/ 55DXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—
Handsold	Loaded in the connector	14-18	2.48-0.80	—	—	—	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

(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 (AWG)	Cable acceptance (mm ²)	Part number Male	Part number Female	Max wire Ø (mm)	Max insulator Ø (mm)
Crimp contacts	Machined	22	—	82911457NA(1)	82911456A(1)	0.7	4.90
	Machined	20	—	82911459NA(1)	82911458A(1)	1.12	4.90
	Machined	18	—	82911461NA(1)	82911460A(1)	1.42	4.90
	Machined	16	—	82911463NAv	82911462A(1)	1.72	4.90
	Machined	14	—	82911465NA(1)	82911464A(1)	2.20	4.90
	Machined	12	—	82911467NA(1)	82911466A(1)	2.82	4.90

(1): Example of plating, for other plating see **Page 126**

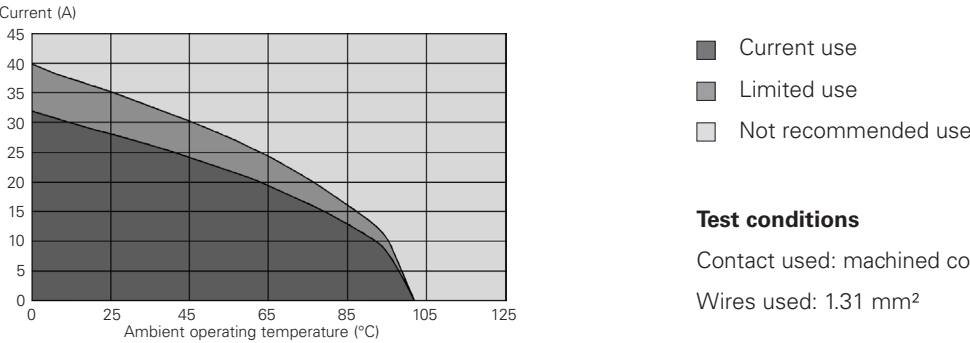
Souriau UTGX series

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

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

UTGX 148 derating curves

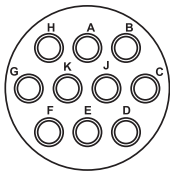


Derating curves based on continuous current application.



Connector part number

UTGX 1210 - 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 93	Square flange receptacle	Without (Fig. 1)	UTGX01210P	UTGX01210S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC1210P	UTGX0JC1210S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC1210P	UTGX1JC1210S
	Plug	Without (Fig. 4)	UTGX61210P	UTGX61210S
	Plug	Cable gland (Fig. 5)	UTGX6JC1210P	UTGX6JC1210S
	Jam nut receptacle	Without (Fig. 6)	UTGX71210P	UTGX71210S
Handsolder electrical contacts loaded see Page 93	Square flange receptacle	Without (Fig. 1)	UTGX012E10P	UTGX012E10S
	Plug	Without (Fig. 4)	UTGX612E10P	UTGX612E10S
	Plug	Cable gland (Fig. 5)	UTGX6JC12E10P	UTGX6JC12E10S
	Jam nut receptacle	Without (Fig. 6)	UTGX712E10P	UTGX712E10S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTGX012D10P	UTGX012D10S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTGX712D10P	UTGX712D10S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTGX712D10P32	UTGX712D10S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size (mm ²)	(inch ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)* Male plug	Female plug
Straight ending	Plug	0.5	0.019"	H05 VV - F 10x0.5	HAUTGX1210PST1M	HAUTGX1210SST1M
	Plug	0.5	0.019"	H05 VV - F 10x0.5	HAUTGX12E10PRA1M	HAUTGX12E10SRA1M
Right angle ending	Plug	0.5	0.019"	H05 VV - F 10x0.5	HAUTGX1210PRA1M	HAUTGX1210SRA1M
	Plug	0.5	0.019"	H05 VV - F 10x0.5	HAUTGX12E10PRA1M	HAUTGX12E10SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 143**

Souriau UTGX series

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

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

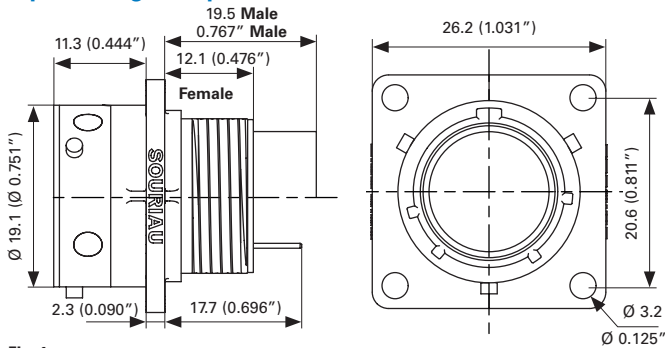


Fig. 1

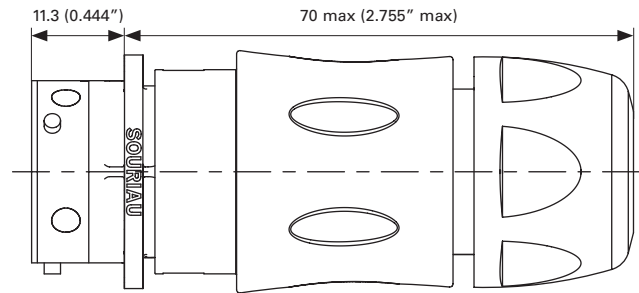


Fig. 2

Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal:
from 3 mm (0.118") to 9 mm (0.354")

Free hanging - UTGX1JC

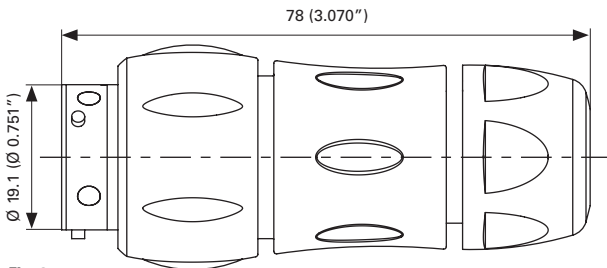


Fig. 3

Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from
3 mm (0.118") to 9 mm (0.354")

Plug - UTGX6 & UTGX6JC

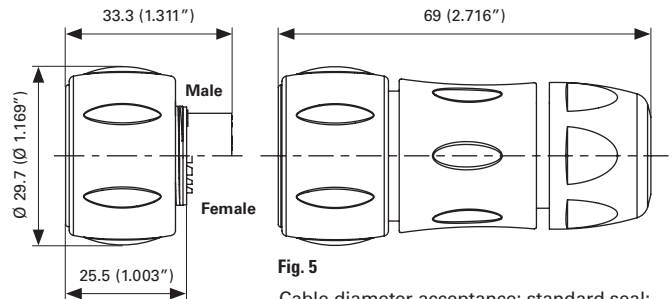


Fig. 4

Fig. 5

Cable diameter acceptance: standard seal:
from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from 3 mm (0.118") to 9 mm (0.354")

Jam nut receptacle UTGX7

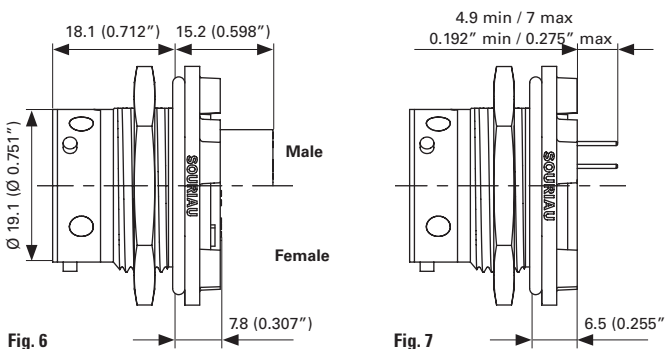


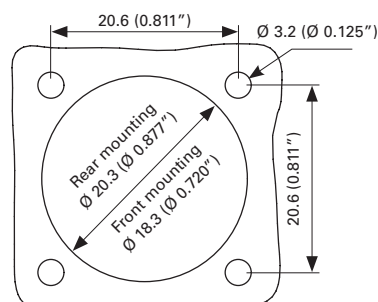
Fig. 6

Fig. 7

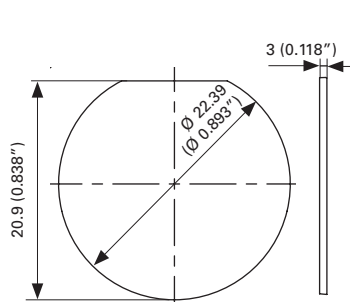
Fig. 8

Panel cut out

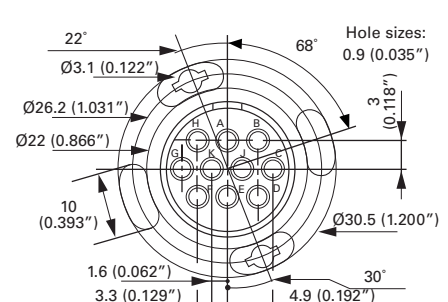
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX612DCG

Plastic protective cap



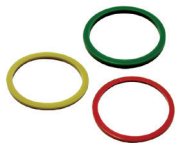
Part number receptacle cap	Part number plug cap
85005587A	85005596

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 UTGX series

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

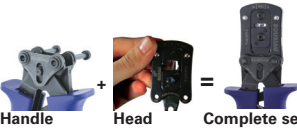
Tooling

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 1 mm	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 127**
(2): Loose contact
(*) : Heads to be used with handle PN: SHANDLES

Extraction tool #20



Description	Part number
Contacts #20	RX20D44

Contacts #20

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance (mm ²)	Cable acceptance (inch ²)	Part number Male	Part number Female	Max wire Ø (mm)	Max wire Ø (inch)	Max insulator Ø (mm)	Max insulator Ø (inch)
Crimp contacts	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24W3K	RC24W3K	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.15	0.045"	1.80	0.070"
	Machined	20-18	0.50-0.82	0.019"-0.032"	RM18W3K	RC18W3K	1.30	0.051"	2.10	0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
PCB	Machined ⁽³⁾	—	—	—	RMW5016K	RCW5016K	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

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

(3): for dimensions see **Pages 133 or 134**

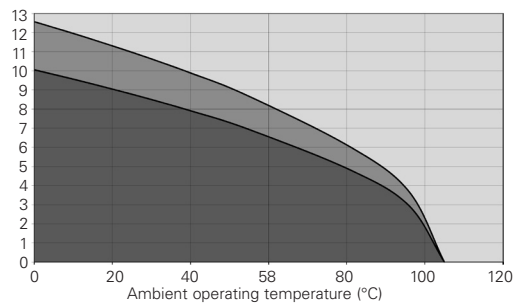
Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length (mm)
Hand solder	Loaded in the connector	Min 0.4µ gold over 0.8µ Ni	20 to 18	3.8

Electrical characteristics

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

UTGX 1210 - 12E10/12D10 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 0.518 mm²

Derating curves based on continuous current application.

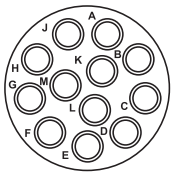
Souriau UTGX series

1412 (Shell size 14, 12x#16)



Connector part number

UTGX 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 98	Square flange receptacle	Without (Fig. 1)	UTGX01412P	UTGX01412S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC1412P	UTGX0JC1412S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC1412P	UTGX1JC1412S
	Plug	Without (Fig. 4)	UTGX61412P	UTGX61412S
	Plug	Cable gland (Fig. 5)	UTGX6JC1412P	UTGX6JC1412S
	Jam nut receptacle	Without (Fig. 6)	UTGX71412P	UTGX71412S
PCB contacts supplied separately See Page 98	Square flange receptacle	Without (Fig. 1)	UTGX01412P	UTGX01412S
	Jam nut receptacle	Without (Fig. 6)	UTGX71412P	UTGX71412S

For discrimination/keying methods see **Page 151**

Overmoulded cable assembly part numbers

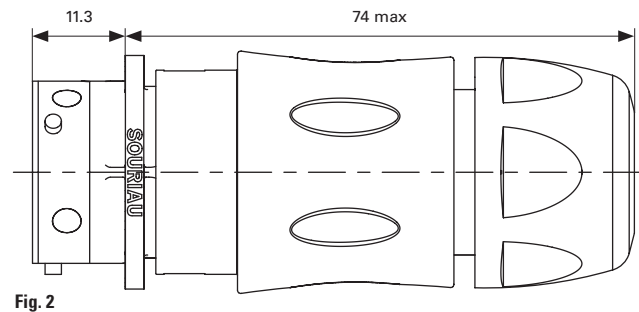
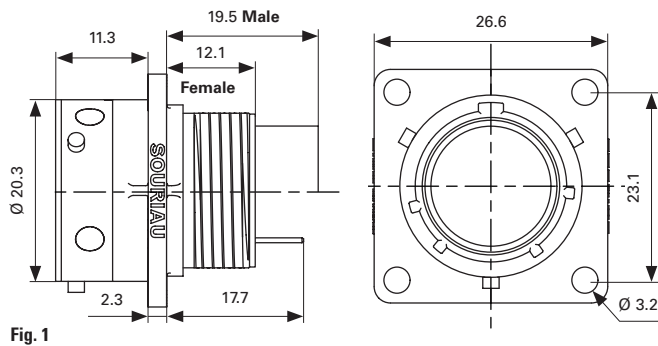
Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 12x1.5	HAUTGX1412PST1M	HAUTGX1412SST1M
Right angle ending	Plug	1.5	H05 VV - F 12x1.5	HAUTGX1412PRA1M	HAUTGX1412SRA1M

(1): Other cable available on demand
(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 142**

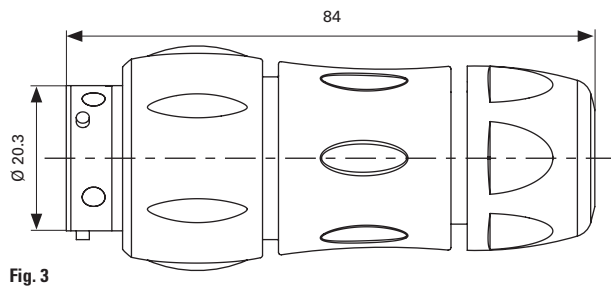
Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC



Cable diameter acceptance: standard seal:
from 7 mm to 14 mm, reduced seal: from 5 mm to 12 mm

Free hanging - UTGX1JC



Cable diameter acceptance: standard seal:
from 7 mm to 14 mm, reduced seal: from 5 mm to 12 mm

Plug - UTGX6 & UTGX6JC

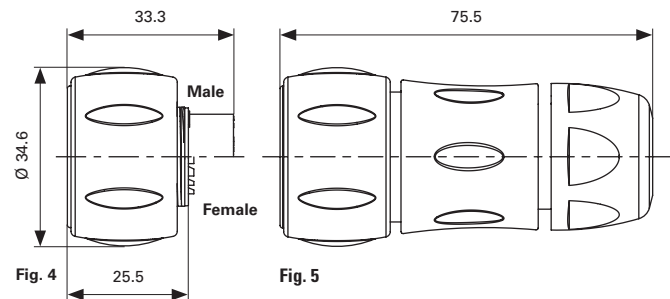
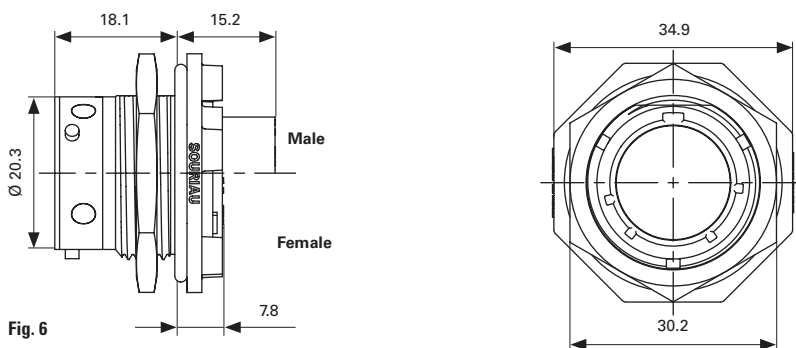


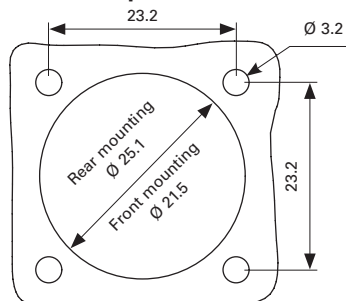
Fig. 5
Cable diameter acceptance: standard seal:
from 7 mm to 14 mm, reduced seal: from 5 mm to 12 mm

Jam nut receptacle UTGX7

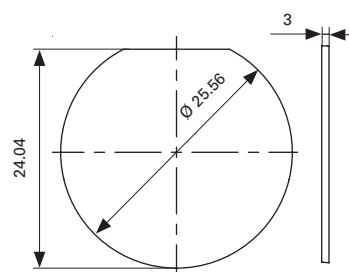


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Souriau UTGX series

1412 (Shell size 14, 12x#16)

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX614DCG

Plastic protective cap



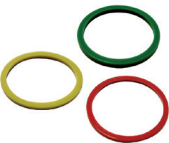
Part number receptacle cap	Part number plug cap
85005588A	85005597

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

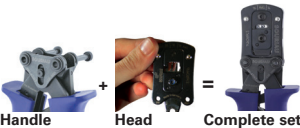
Tooling

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 1.6 mm	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 126](#)
(*) : Heads to be used with handle PN: SHANGLES

Extraction tool #16

Fig. 1



Fig. 2



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

Souriau UTGX series

1412 (Shell size 14, 12x#16)

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance (mm ²)	Cable acceptance (inch ²)	Part number Male	Part number Female	Max wire Ø (mm)	Max wire Ø (inch)	Max insulator Ø (mm)	Max insulator Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 131 to 132	—	—	RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 131 to 132	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 131 to 132	—	—	RM/55DXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Pages 131 to 132	—	—	RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—
Handsolder	Loaded in the connector	14-18	2.48-0.80	—	—	—	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

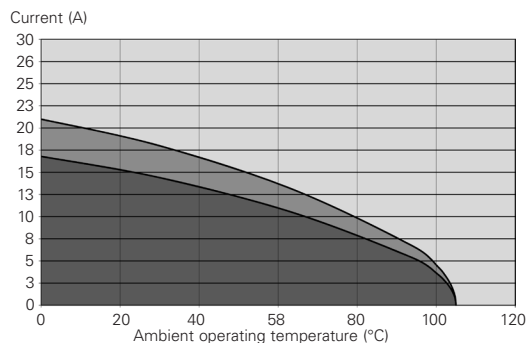
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see **Pages 133 or 134**

Electrical characteristics

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

UTGX 1412 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

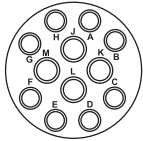
Wires used: 1.31 mm²

Derating curves based on continuous current application.



Connector part number

UTGX 14E12/14D12



12 contacts
5A 250V per UL1977 with
AWG20 wire
10A 600V per UL1977 with
AWG16 wire

Contact type	Connector type	Backshell	Part number Male insert	Female insert
Hand solder electrical contacts loaded see Page 104	Square flange receptacle	Without (Fig. 1)	UTGX014E12P	UTGX014E12S
	Plug	Without (Fig. 2)	UTGX614E12P	UTGX614E12S
		Cable gland (Fig. 3)	UTGX6JC14E12P	UTGX6JC14E12S
	Jam nut receptacle	Without (Fig. 4)	UTGX714E12P	UTGX714E12S
PCB contacts loaded see Page 104	Square flange receptacle	Without (Fig. 2)	UTGX014D12P	UTGX014D12S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX714D12P	UTGX714D12S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX714D12P32	UTGX714D12S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm²)	(inch²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059"	H05 VV - F 12x1.5	HAUTGX14E12PST1M	HAUTGX14E12SST1M
Right angle ending	Plug	1.5	0.059"	H05 VV - F 12x1.5	HAUTGX14E12PRA1M	HAUTGX14E12SRA1M

(1): Other cable available on demand

(*): Other lengths available on demand

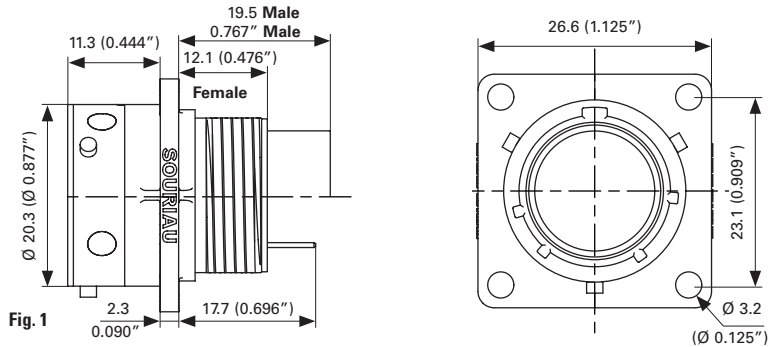
Note: Overmoulded cable assembly dimensions available **Page 142**

Souriau UTGX series

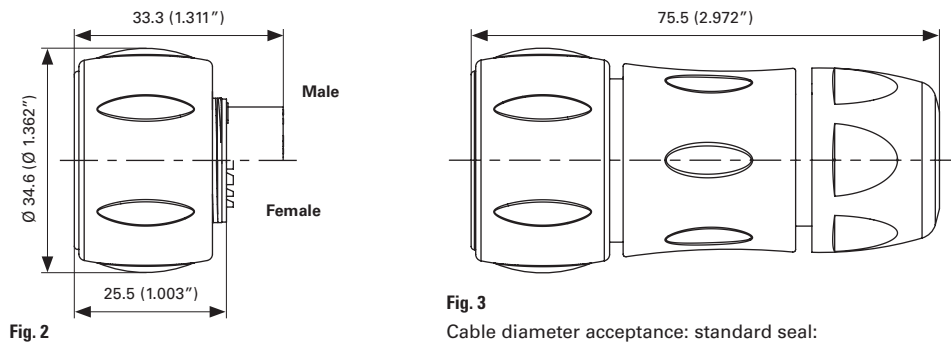
14E12/14D12 (Shell size 14, 8x#20, 4#16)

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0

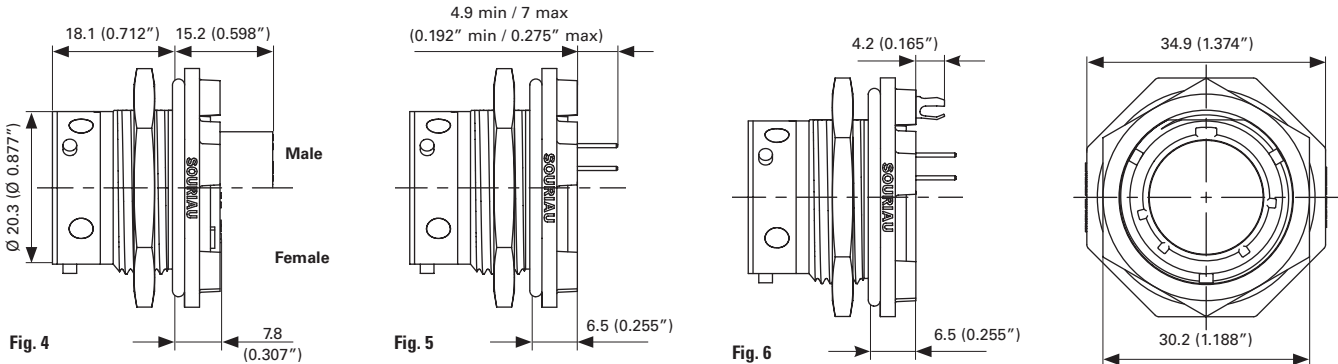


Plug - UTGX6 & UTGX6JC



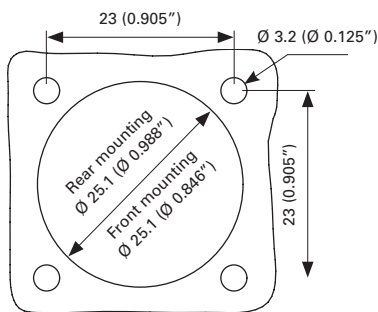
Cable diameter acceptance: standard seal: from 7 mm (0.275") to 14 mm (0.551"), reduced seal: from 5 mm (0.196") to 12 mm (0.472")

Jam nut receptacle UTGX7

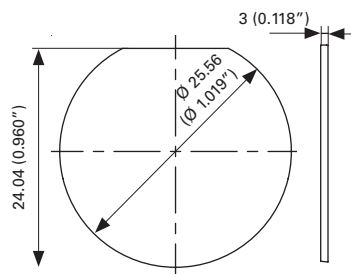


Panel cut out

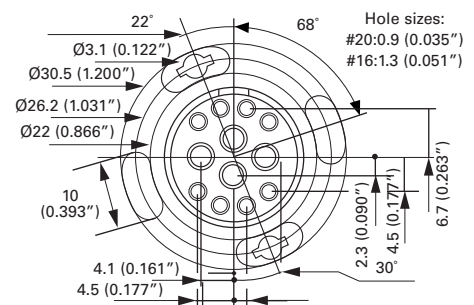
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	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	UTS612CCRG
Y for Yellow	UTS712CCRY	UTS612CCRY
R for Red	UTS712CCRR	UTS612CCRR

Souriau UTGX series

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

Contacts

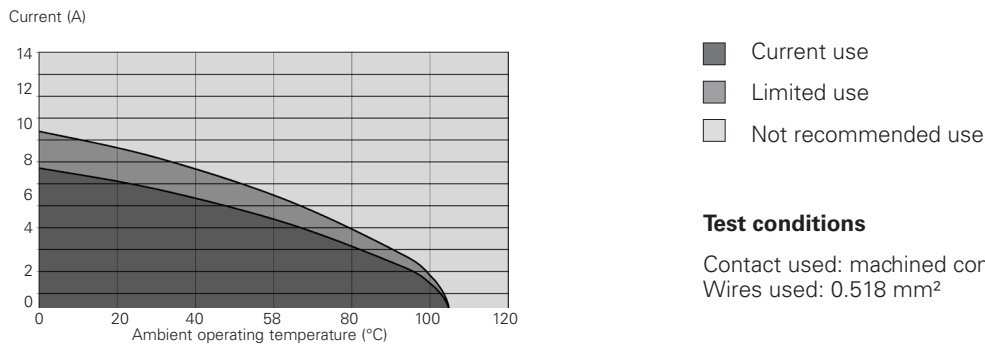
Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
				(mm ²)	(inch)	(mm)	(inch)
#16	Handsolders Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 - 14	0.823 - 2.08	0.032"-0.081"	5	0.196"
	PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—	—
#20	Handsolders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

(1): For dimensions see **Pages 133 or 134**

Electrical characteristics

UL	CSA	IEC
5A 250V with AWG20 10A 600V with AWG16	5A 250V with AWG20 10A 600V with AWG16	4A 50V 1.5kV 3

UTGX 14E12/14D12 derating curves

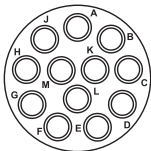


Derating curves based on continuous current application.



Connector part number

UTGX 1492



12 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 107	Square flange receptacle	Without (Fig. 1)	UTGX01492P	UTGX01492S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC1492P	UTGX0JC1492S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC1492P	UTGX1JC1492S
	Plug	Without (Fig. 4)	UTGX61492P	UTGX61492S
		Cable gland (Fig. 5)	UTGX6JC1492P	UTGX6JC1492S
	Jam nut receptacle	Without (Fig. 6)	UTGX71492P	UTGX71492S
PCB contacts supplied separately see Page 107	Square flange receptacle	Without (Fig. 1)	UTGX01492P	UTGX01492S
	Jam nut receptacle	Without (Fig. 6)	UTGX71492P	UTGX71492S

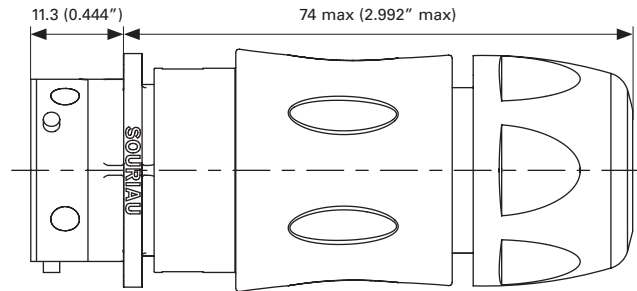
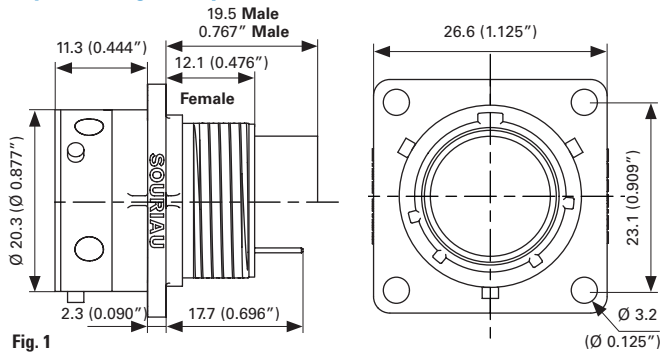
For discrimination/keying methods see **Page 151**

Souriau UTGX series

1492 (Shell size 14, 12x#16)

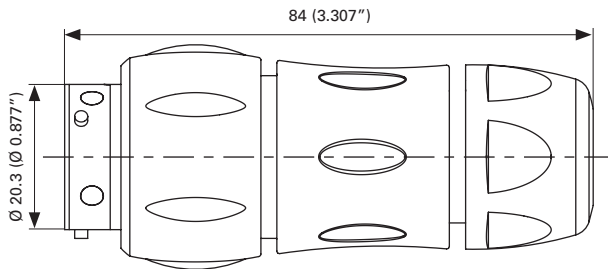
Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC



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

Free hanging - UTGX1JC



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

Plug - UTGX6 & UTGX6JC

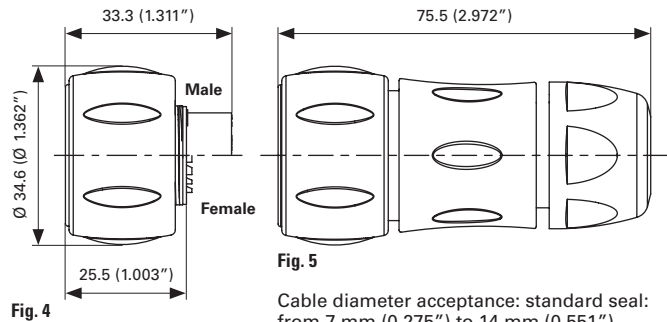
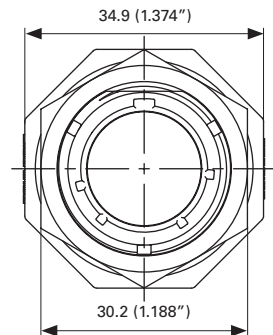
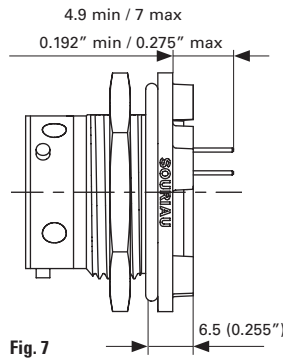
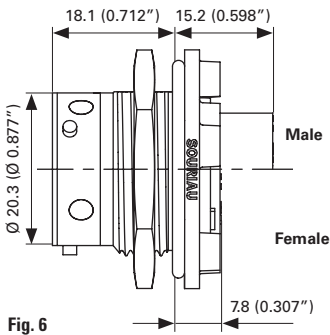


Fig. 5

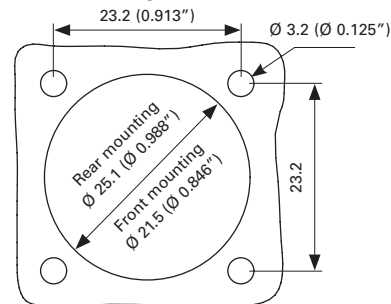
Cable diameter acceptance: standard seal:
from 7 mm (0.275") to 14 mm (0.551"),
reduced seal: from 5 mm (0.196") to 12 mm
(0.472")

Jam nut receptacle UTGX7

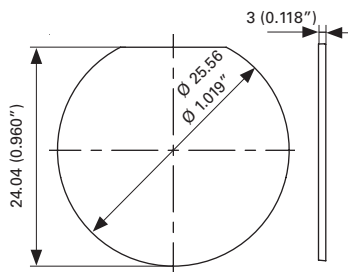


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	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 UTGX series

1492 (Shell size 14, 12x#16)

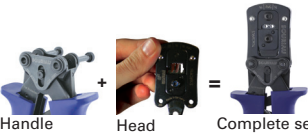
Tooling

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 1.6 mm	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 127](#)
(*): Heads to be used with handle PN: SHANDLES

Extraction tool #16



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

Contacts #16

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm ²)	(inch ²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	30-26	0.48-0.08	0.018"-0.003"	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	0.021"	1.00	0.039"
	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	0.045"	1.80	0.070"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	0.045"	2.20	0.086"
	Machined	20-16	0.50-1.48	0.020"-0.058"	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	0.070"	3.20	0.125"
	Machined	16-14	1.48-2.48	0.058"-0.097"	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	0.090"	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	18-16	0.82-1.48	0.032"-1.48"	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	—	3.00	0.118"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	14	2.48	0.097"	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	—	3.20	0.125"
PCB	Machined ⁽³⁾	—	—	—	RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾	—	—	—	—
Coaxial	Cable multipiece	see Pages 131 to 132			RMDXK10D28	RCDXK1D28	—	—	—	—
	Cable monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
	Twisted pair multipiece	see Pages 131 to 132			RM/ 55DXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—	—	—
	Twisted pair monocrimp	see Pages 131 to 132			RMDX60xxD28	RCDX60xxD28	—	—	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—	—	—	RMPOF1000	RCPOF1000B	—	—	—	—
Handsolder	Loaded in the connector	14-18	2.48-0.80	—	—	—	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

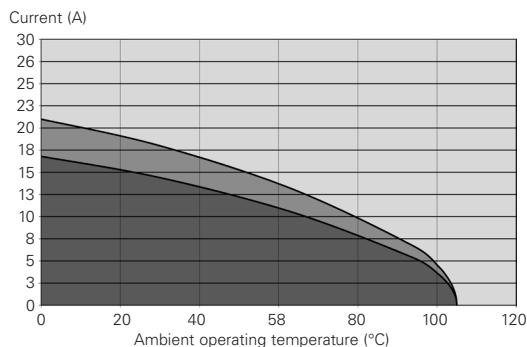
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see **Pages 133 or 134**

Electrical characteristics

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

UTGX 1412 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts

Wires used: 1.31 mm²

Derating curves based on continuous current application.

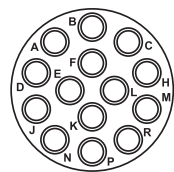
Souriau UTGX series

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



Connector part number

UTGX 12E14/12D14



14 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 113	Square flange receptacle	Without (Fig. 1)	UTGX012E14P	UTGX012E14S
	Plug	Without (Fig. 2)	UTGX612E14P	UTGX612E14S
	Plug	Cable gland (Fig. 3)	UTGX6JC12E14P	UTGX6JC12E14S
	Jam nut receptacle	Without (Fig. 4)	UTGX712E14P	UTGX712E14S
PCB contacts loaded see Page 113	Square flange receptacle	Without (Fig. 1)	UTGX012D14P	UTGX012D14S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX712D14P	UTGX712D14S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX712D14P32	UTGX712D14S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

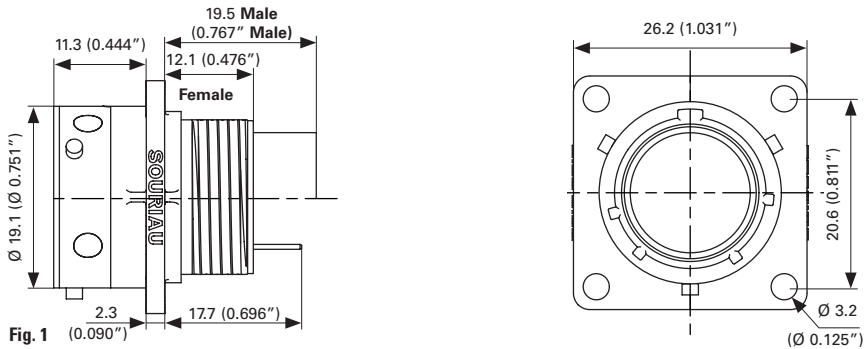
Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm²)	(inch²)		Male plug	Female plug
Straight ending	Plug	0.5	0.019"	H05 VV - F 14x0.5	HAUTGX12E14PST1M	HAUTGX12E14SST1M
Right angle ending	Plug	0.5	0.019"	H05 VV - F 14x0.5	HAUTGX12E14PRA1M	HAUTGX12E14SRA1M

(1): Other cable available on demand
(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 145**

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0



Plug - UTGX6 & UTGX6JC

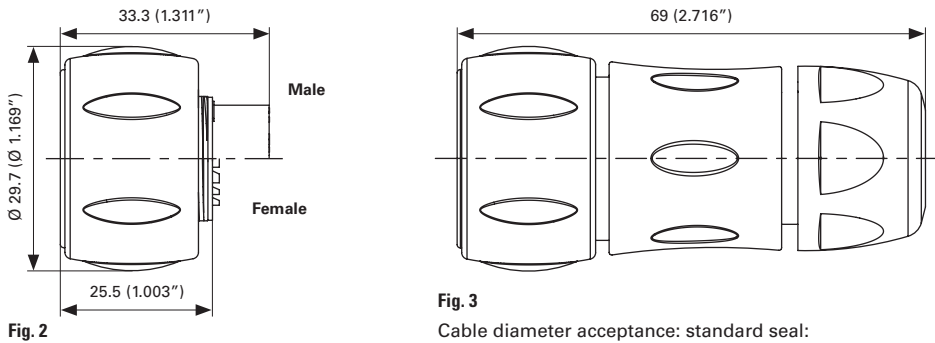


Fig. 3

Cable diameter acceptance: standard seal: from 2.5 mm (0.098") to 12 mm (0.472"), reduced seal: from 3 mm (0.118") to 9 mm (0.354")

Jam nut receptacle UTGX7

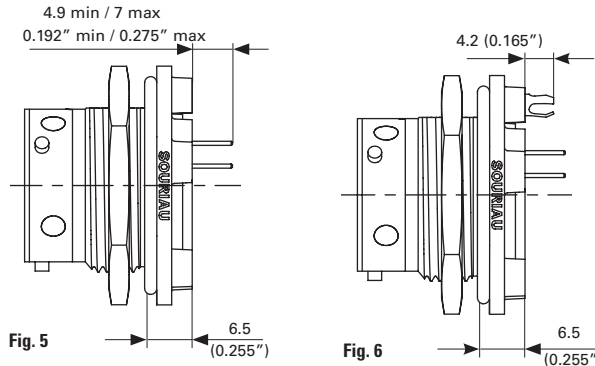
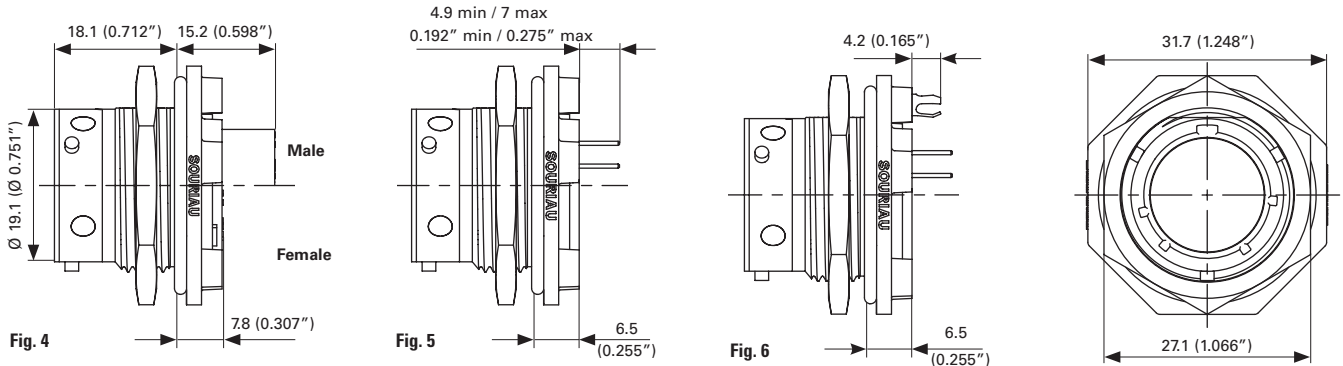
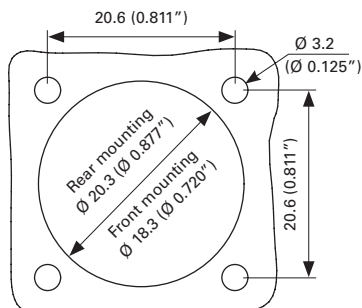


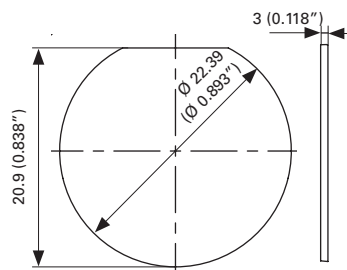
Fig. 6

Panel cut out

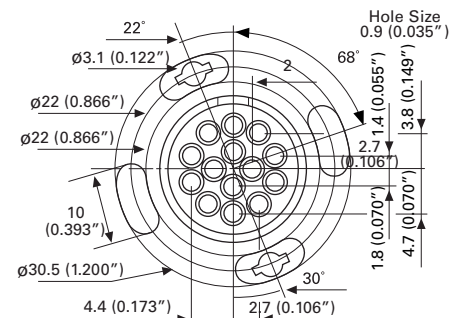
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS12DCG
IP68/69K - Metal terminal	UTS12DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS12DCGE

Plug sealing cap



Description	Part number
IP68/69K	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 #20

Contact style	Contact type	Plating	Cable acceptance (AWG)	Wire stripping length (mm)
Handsolder	Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	20 to 18	3.8
PCB	Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—

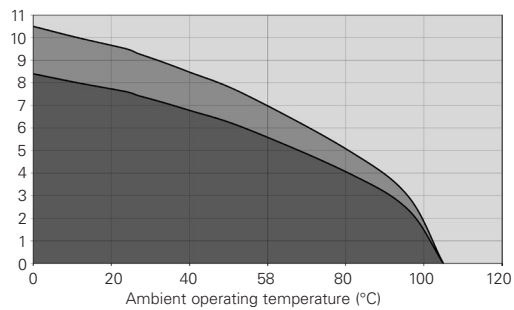
(1): For dimensions see **Pages 135 or 136**

Electrical characteristics

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

UTGX 12E4/12D4 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 0.518 mm²

Derating curves based on continuous current application.

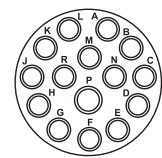
Souriau UTGX series

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



Connector part number

UTGX 14E15/14D15



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 115	Square flange receptacle	Without (Fig. 1)	UTGX014E15P	UTGX014E15S
	Plug	Without (Fig. 2)	UTGX614E15P	UTGX614E15S
	Plug	Cable gland (Fig. 3)	UTGX6JC14E15P	UTGX6JC14E15S
	Jam nut receptacle	Without (Fig. 4)	UTGX714E15P	UTGX714E15S
PCB contacts loaded see Page 115	Square flange receptacle	Without (Fig. 2)	UTGX014D15P	UTGX014D15S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX714D15P	UTGX714D15S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX714D15P32	UTGX714D15S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

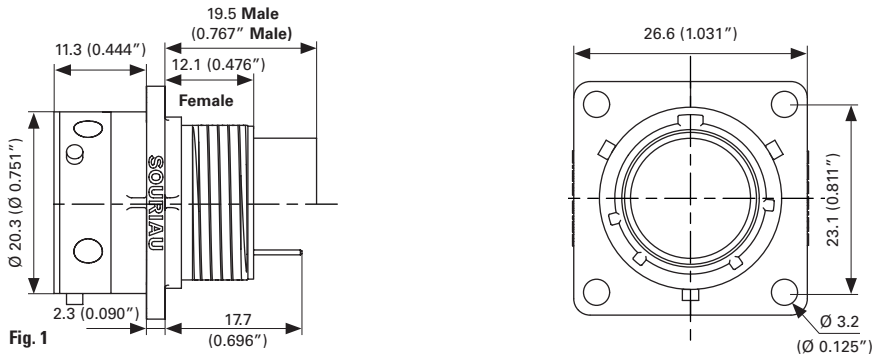
Overmoulding type	Connector type	Wire size		Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
		(mm²)	(inch²)		Male plug	Female plug
Straight ending	Plug	1.5	0.059"	H05 VV - F 15x1.5	HAUTGX14E15PST1M	HAUTGX14E15SST1M
Right angle ending	Plug	1.5	0.059"	H05 VV - F 15x1.5	HAUTGX14E15PRA1M	HAUTGX14E15SRA1M

(1): Other cable available on demand
(*): Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 143**

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0



Plug - UTGX6 & UTGX6JC

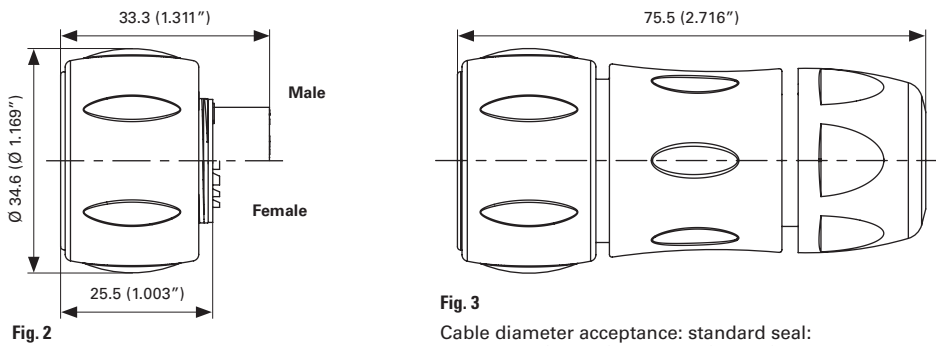
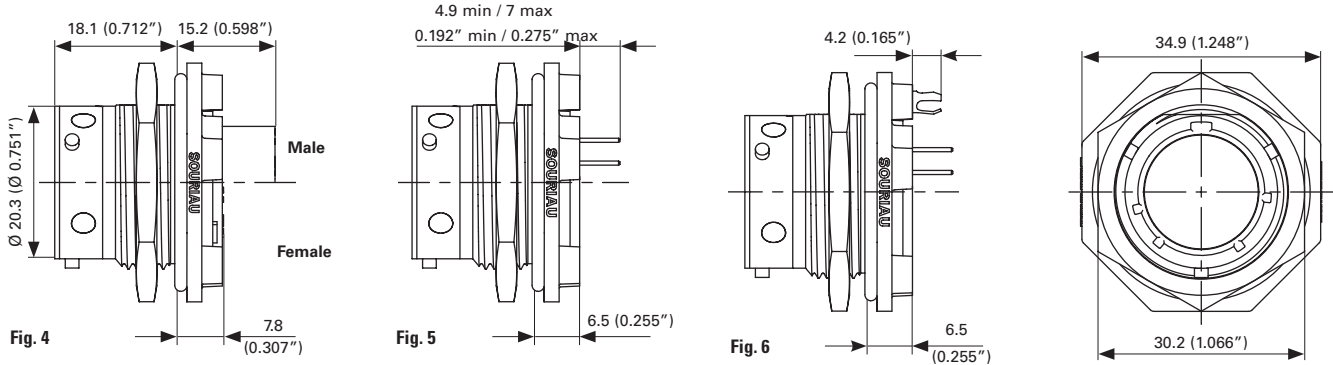


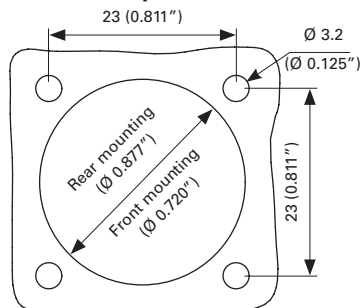
Fig. 3
Cable diameter acceptance: standard seal:
from 7 mm (0.098") to 14 mm (0.472") , reduced seal: from 5
mm (0.118") to 12 mm (0.354")

Jam nut receptacle UTGX7

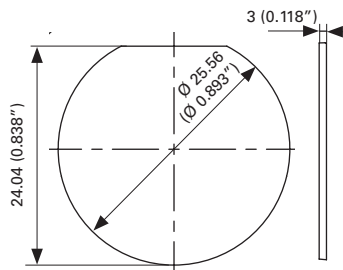


Panel cut out

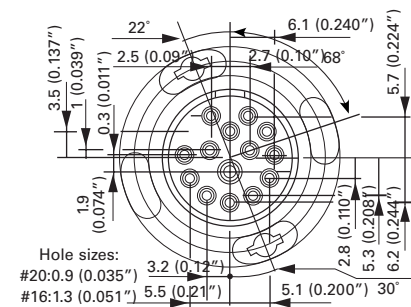
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut and free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX614DCG

Plastic protective cap



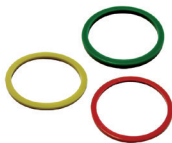
Part number receptacle cap	Part number plug cap
85005588A	85005597

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

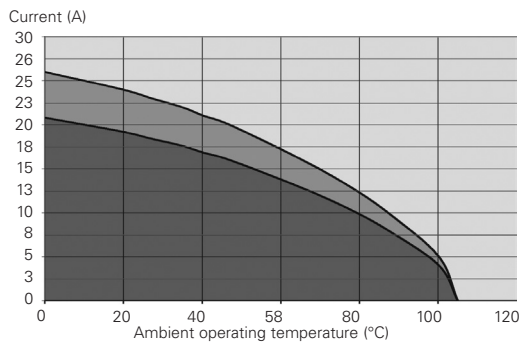
Contact size	Contact type	Plating	Cable acceptance (AWG)	Cable acceptance		Wire stripping length	
				(mm ²)	(inch ²)	(mm ²)	(inch ²)
#16	Handsolder Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	18 - 14	0.823 - 2.08	0.032"-0.081"	5	0.196"
#16	PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—	—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

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

(*): Qualification pending

UTGX 14E15/14D15 derating curves



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 1.31 mm²

Derating curves based on continuous current application.

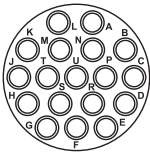
Souriau UTGX series

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



Connector part number

UTGX 14E18/14D18



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

Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Hardsolder electrical contacts loaded see Page 119	Square flange receptacle	Without (Fig. 1)	UTGX014E18P	UTGX014E18S
	Plug	Without (Fig. 2)	UTGX614E18P	UTGX614E18S
	Plug	Cable gland (Fig. 3)	UTGX6JC14E18P	UTGX6JC14E18S
	Jam nut receptacle	Without (Fig. 4)	UTGX714E18P	UTGX714E18S
PCB contacts loaded see Page 119	Square flange receptacle	Without (Fig. 2)	UTGX014D18P	UTGX014D18S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 5)	UTGX714D18P	UTGX714D18S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 6)	UTGX714D18P32	UTGX714D18S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
				Male plug	Female plug
Straight ending	Plug	0.5	H05 VV - F 18x0.5	HAUTGX14E18PST1M	HAUTGX14E18SST1M
Right angle ending	Plug	0.5	H05 VV - F 18x0.5	HAUTGX14E18PRA1M	HAUTGX14E18SRA1M

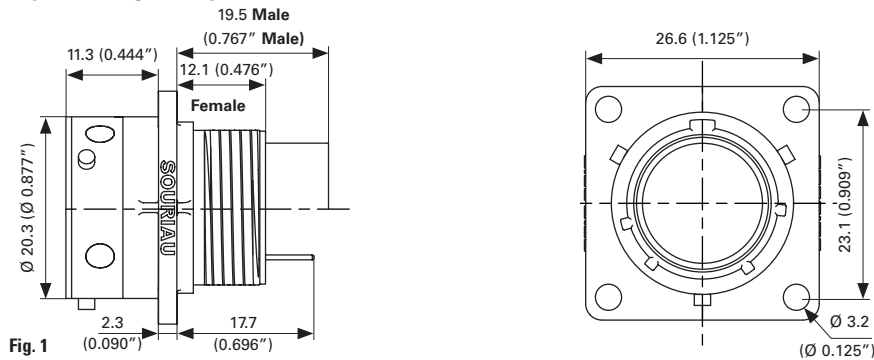
(1) Other cable available on demand

* Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 143**

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0



Plug - UTGX6 & UTGX6JC

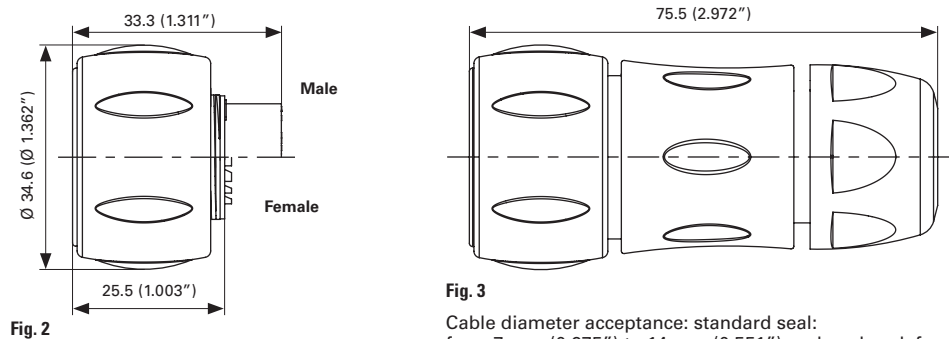
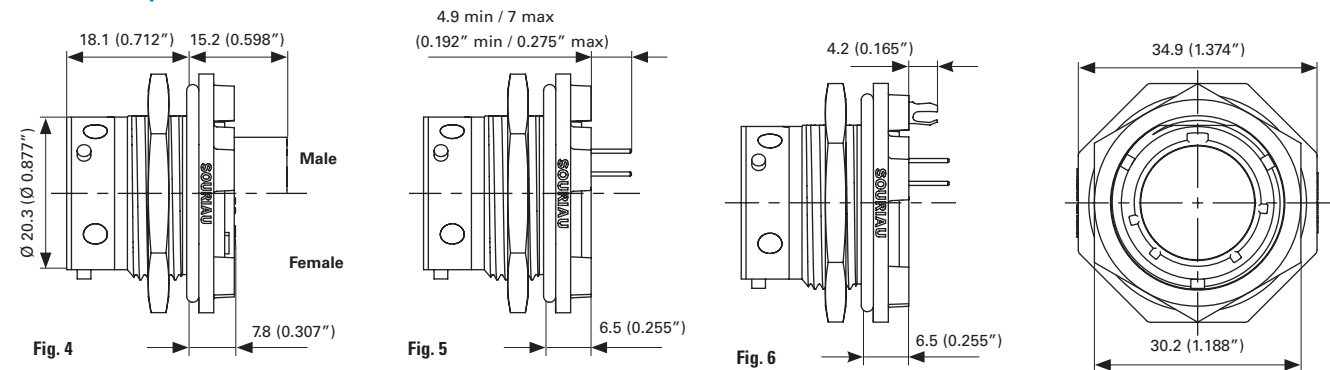


Fig. 3

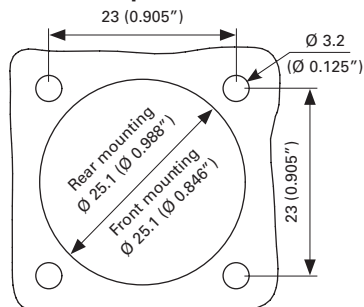
Cable diameter acceptance: standard seal: from 7 mm (0.275") to 14 mm (0.551"), reduced seal: from 5 mm (0.196") to 12 mm (0.472")

Jam nut receptacle UTGX7

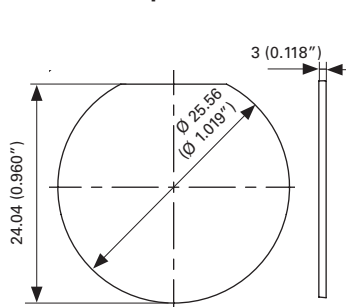


Panel cut out

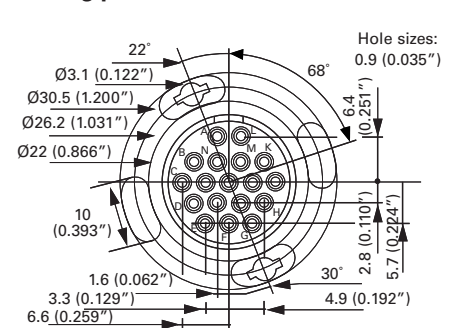
Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTX614DCG

Plastic protective cap



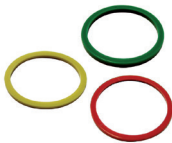
Part number receptacle cap	Part number plug cap
85005588A	85005597

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	
				(mm ²)	(inch ²)	(mm)	(inch)
#20	Handsold Loaded in the connector	Min 0.4μ gold over 0.8μ Ni	20 - 18	0.32 - 0.75	0.012"-0.029"	3.8	0.149"
#20	PCB Machined ⁽¹⁾	Min 0.4μ gold over 0.8μ Ni	—	—	—	—	—

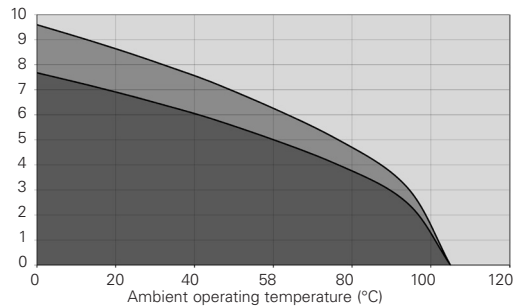
(1): For dimensions see **Pages 136 or 137**

Electrical characteristics

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

UTGX 14E18/14D18 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 0.518 mm²

Derating curves based on continuous current application.

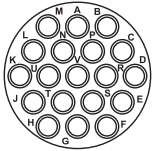
Souriau UTGX series

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



Connector part number

UTGX 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 126	Square flange receptacle	Without (Fig. 1)	UTGX01419P	UTGX01419S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC1419P	UTGX0JC1419S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC1419P	UTGX1JC1419S
	Plug	Without (Fig. 4)	UTGX61419P	UTGX61419S
	Plug	Cable gland (Fig. 5)	UTGX6JC1419P	UTGX6JC1419S
	Jam nut receptacle	Without (Fig. 6)	UTGX71419P	UTGX71419S
PCB contacts supplied separately see Page 126	Square flange receptacle	Without (Fig. 1)	UTGX014E19P	UTGX014E19S
Handsolder electrical contacts loaded see page 126	Square flange receptacle	Without (Fig. 1)	UTGX014E19P	UTGX014E19S
	Plug	Without (Fig. 4)	UTGX614E19P	UTGX614E19S
	Plug	Cable gland (Fig. 5)	UTGX6JC14E19P	UTGX6JC14E19S
	Jam nut receptacle	Without (Fig. 6)	UTGX714E19P	UTGX714E19S
PCB contacts loaded	Square flange receptacle	Without (Fig. 3)	UTGX014D19P	UTGX014D19S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig.7)	UTGX714D19P	UTGX714D19S
	Jam nut receptacle with stand off and with hold down clips	Without (Fig. 8)	UTGX714D19P32	UTGX714D19S32

For discrimination/keying methods see **Page 151**

Sealed unmated

Overmoulded cable assembly part numbers

Overmoulding type	Connector type	Wire size (mm²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 7x1.5	HAUTGX1419PST1M	HAUTGX1419SST1M
Straight ending	Plug	1.5	H05 VV - F 7x1.5	HAUTGX14E19PRA1M	HAUTGX14E19SRA1M
Right angle ending	Plug	1.5	H05 VV - F 7x1.5	HAUTGX1419PRA1M	HAUTGX1419SRA1M
Right angle ending	Plug	1.5	H05 VV - F 7x1.5	HAUTGX14E19PRA1M	HAUTGX14E19SRA1M

(1) Other cable available on demand

(*) Other lengths available on demand

Note: Overmoulded cable assembly dimensions available **Page 143**

Dimensions in mm / inch (For mated connector lengths see Page 142)

Square flange receptacle - UTGX0 and UTGX0JC

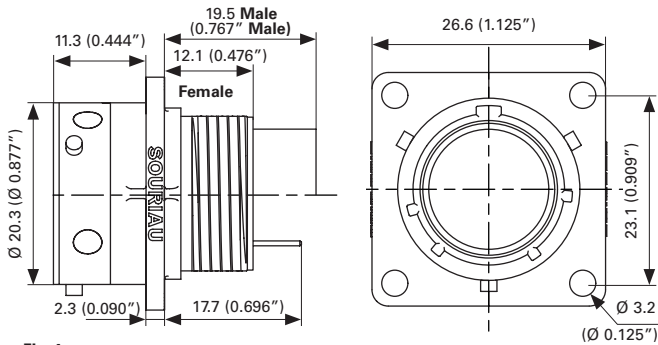


Fig. 1

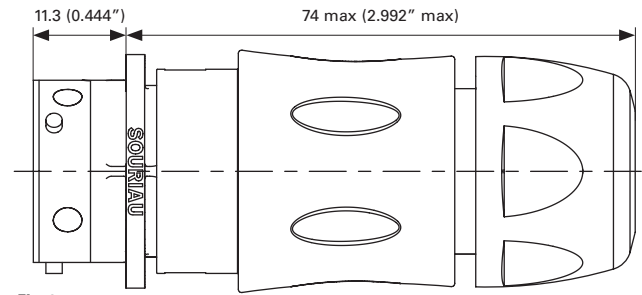


Fig. 2

Free hanging - UTGX1JC

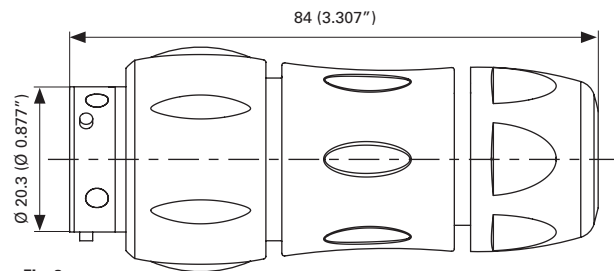


Fig. 3

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

Plug - UTGX6 & UTGX6JC

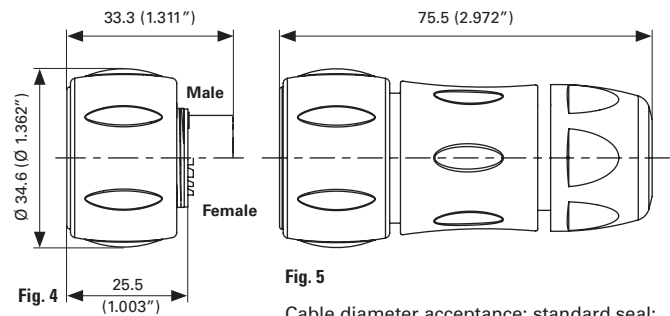


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

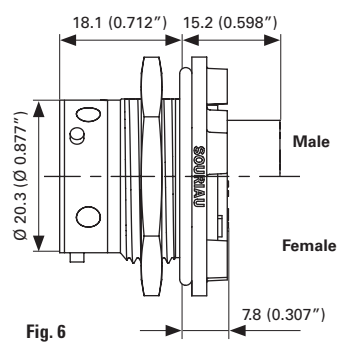


Fig. 6

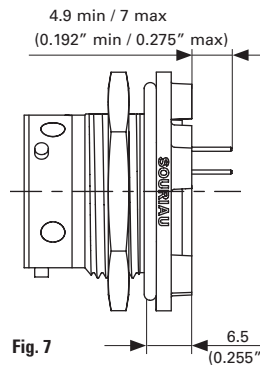


Fig. 7

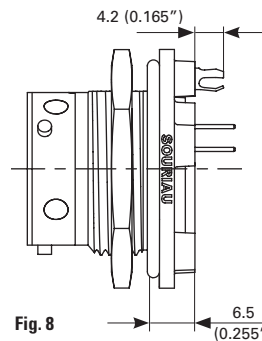
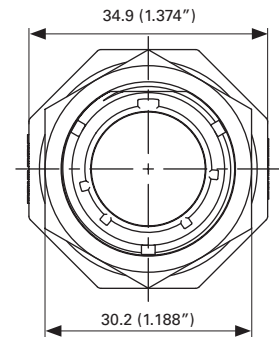
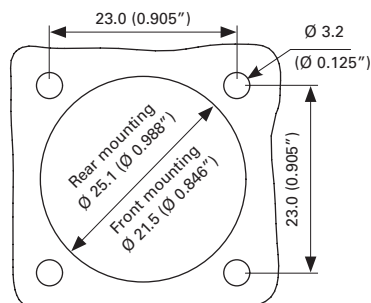


Fig. 8



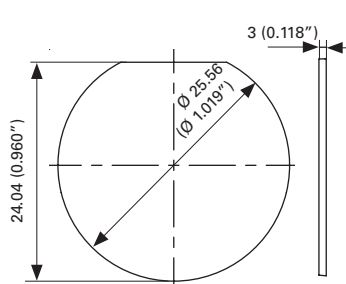
Panel cut out

Jam nut receptacle - UTGX0

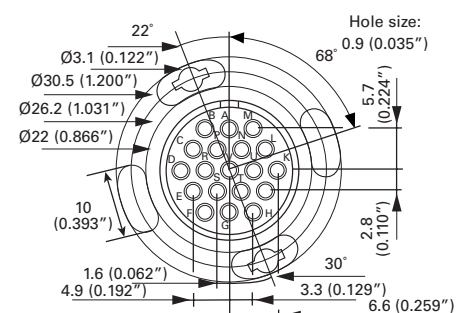


Dimensions in inches (millimeters)

Jam nut receptacle - UTGX7



Drilling pattern



Souriau UTGX series

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTS14DCG
IP68/69K - Metal terminal	UTS14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTS14DCGE

Plug sealing cap



Description	Part number
IP68/69K	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

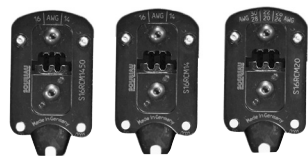
Tooling

Tooling



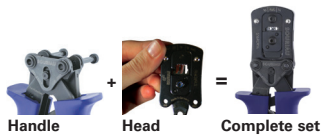
Description	Part number
Handle (without head)	Shandles
Box containing handle and several crimp tooling	Toolkit

Crimp tooling (without Shandles)



Contact size	Contacts	Part number of Head
Standard contacts #20 Ø 1 mm	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 127**
(2): Loose contact
(*): Heads to be used with handle PN: SHANGLES



Extraction tool #20



Description	Part number
Contacts #20	RX20D44

Souriau UTGX series

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

Contacts #20

Contact style	Contact type	Cable acceptance (AWG)	Cable acceptance		Part number Male	Part number Female	Max wire		Max insulator	
			(mm²)	(inch²)			Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)
Crimp contacts	Machined	26-24	0.13-0.25	0.005"-0.009"	RM24W3K	RC24W3K	0.80	0.031"	1.58	0.062"
	Machined	22-20	0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.15	0.045"	1.80	0.070"
	Machined	20-18	0.50-0.82	0.019"-0.032"	RM18W3K	RC18W3K	1.30	0.051"	2.10	0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	0.005"-0.009"	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	—	—	0.90-1.58	0.035"-0.062"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	22-20	0.32-0.50	0.012"-0.019"	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	—	—	1.20-2.10	0.047"-0.082"
PCB	Machined ⁽³⁾	—	—	—	RMW5016K	RCW5016K	—	—	—	—

(1): Example of plating, for other plating see **Page 126**

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

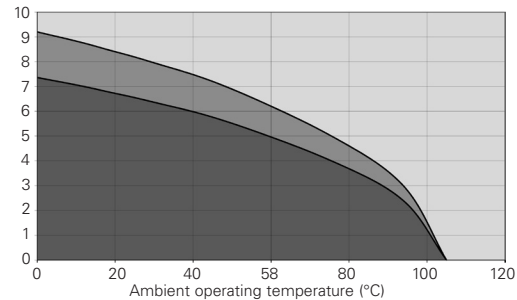
(3): for dimensions see **Pages 133 or 134**

Electrical characteristics

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

UTGX 1419 - 14E19/14D19 derating curves

Current (A)



- Current use
- Limited use
- Not recommended use

Test conditions

Contact used: machined contacts
Wires used: 0.518 mm²

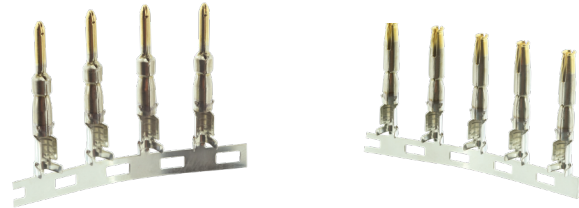
Derating curves based on continuous current application.

Trim Trio® contacts offer the unique feature of using the same contact style in any layout, with the same active part size (i.e. #20, #16, #12, etc.). This provides an easy solution allowing you to use only one type of contact to equip all of your Souriau connectors designed for Trim Trio® contacts.

Please note that the **UTGX 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.

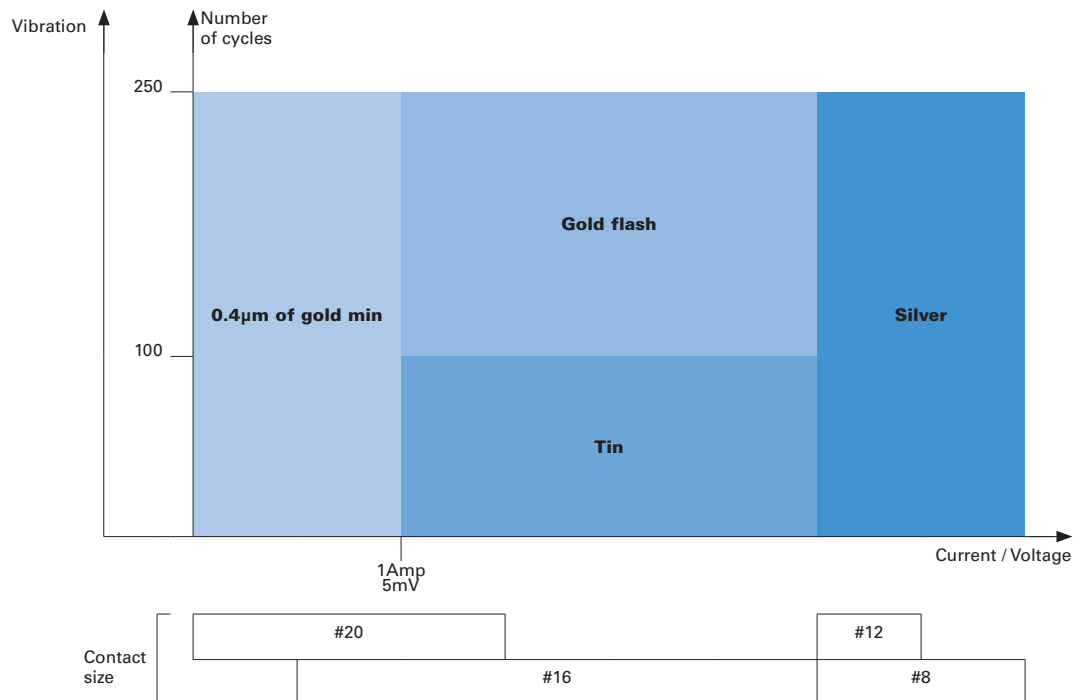
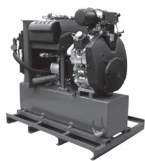


Machined contacts



Stamped & Formed contacts

Contact plating selector guide



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

- Machined
- Stamped & Formed

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

Stamped & Formed contacts offer the ability to be crimped automatically which makes

them more suitable for high volume production applications.

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

The graph can help guide you to recommendations based

on application, mating cycles and current/voltage needs.

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 1 mm	K	0.4µm Gold over 2µm Nickel min
#16 Ø 1.6 mm	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 2.4 mm	A	2µm Nickel + 2µm Ag
	K	0.4µm Gold over 2µm Nickel min
#8 Ø 3.6 mm	A	2µm Nickel + 2µm Ag

Stamped & Formed contacts

Contact size	Plating code	Plating description	
		Active area	Other area
#20 Ø 1 mm	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 1.6 mm	S31	Gold flash over Nickel	Crimped area: 1.3µm Tin min over Nickel Other areas: 1.3µm Tin min
	S18	0.75µm Gold min over Nickel	
	D70	0.13µm Gold min over Nickel	Gold flash over Nickel
	TK6	0.5µm - 2.5µm Sn pre-plated	-Gold flash over Nickel

Contacts supplied separately

Contact size	Contact type	Resistance
Electrical characteristics: contact resistance		
#20 Ø 1 mm	Machined	< 6mΩ
	Stamped and Formed	< 6mΩ
#16 Ø 1.6 mm	Machined	< 3mΩ
	Stamped and Formed	< 6mΩ
#12 Ø 2.4 mm	Machined	< 5mΩ
#8 Ø 3.6 mm	Machined	< 5mΩ

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 1 mm) & #16 (Ø 1.6 mm)

Stamped & 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 2.4 mm) & #8 (Ø 3.6 mm)

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		(mm ²)	(inch ²)	Part number		Max insulator		Available plating see Page 129
		AWG				Male	Female	Ø (mm)	Ø (inch)	
#20 Ø 1 mm	Machined	26-24		0.13-0.20	0.005"-0.007"	RM24W3K	RC24W3K	1.58 max	0.062" max	K
	Stamped & Formed	26-24		0.13-0.25	0.005"-0.009"	SM24W3 ⁻⁽¹⁾	SC24W3 ⁻⁽¹⁾	0.89-1.58	0.035"-0.062"	TK6 S25 (female) S26 (male)
						SM24WL3 ⁻⁽²⁾	SC24WL3 ⁻⁽²⁾	0.89-1.58	0.035"-0.062"	TK6 S25 (female) S26 (male)
	Machined	22-20		0.32-0.50	0.012"-0.019"	RM20W3K	RC20W3K	1.58 max	0.062" max	K
	Stamped & Formed	22-20		0.35-0.5	0.013"-0.019"	SM20W3 ⁻⁽¹⁾	SC20W3 ⁻⁽¹⁾	1.17-2.08	0.046"-0.081"	TK6 S25 (female) S26 (male)
	Stamped & Formed					SM20WL3 ⁻⁽²⁾	SC20WL3 ⁻⁽²⁾	1.17-2.08	0.046"-0.081"	TK6 S25 (female) S26 (male)
#16 Ø 1.6 mm	Machined	20-18		0.48-0.93	0.018"-0.036"	RM18W3K	RC18W3K	2.10 max	0.082" max	K
	Machined	30-26		0.05-0.08	0.001"-0.003"	RM28M1-	RC28M1-	1.1	0.043"	K, J
	Machined	26-24		0.13-0.2	0.005"-0.007"	RM24M9-	RC24M9-	1.6	0.062"	K, J
	Stamped & Formed	26-24		0.13-0.25	0.005"-0.009"	SM24M1 ⁻⁽¹⁾ SM24ML1 ⁻⁽²⁾	SC24M1 ⁻⁽¹⁾ SC24ML1 ⁻⁽²⁾	0.89-1.58	0.035"-0.062"	S31, S18, TK6
	Machined	22-20		0.32-0.50	0.012"-0.019"	RM20M13-	RC20M13-	1.8	0.070"	K, J
	Machined					RM20M12-	RC20M12-	2.2	0.086"	K, J
	Stamped & Formed	22-20		0.35-0.5	0.013"-0.019"	SM20M1 ⁻⁽¹⁾ SM20ML1 ⁻⁽²⁾	SC20M1 ⁻⁽¹⁾ SC20ML1 ⁻⁽²⁾	1.17-2.08	0.046"-0.081"	S31, S18, TK6
	Machined	18-16		0.92-1.5	0.036"-0.059"	RM16M23-	RC16M23-	3.2	0.125"	K, J
	Stamped & Formed	18-16		0.82-1.5	0.032"-0.059"	SM16M1 ⁻⁽¹⁾ SM16ML1 ⁻⁽²⁾	SC16M1 ⁻⁽¹⁾ SC16ML1 ⁻⁽²⁾	No insulation grip		S31, S18, TK6
	Stamped & Formed	18-16		0.82-1.5	0.032"-0.059"	SM16M11 ⁻⁽¹⁾ SM16ML11 ⁻⁽²⁾	SC16M11 ⁻⁽¹⁾ SC16ML11 ⁻⁽²⁾	2.08-3.0	0.081"-0.118"	S31, S18, TK6
	Machined	16-14		1.5-2.5	0.059"-0.098"	RM14M30-	RC14M30-	3.2	0.125"	K, J
	Stamped & Formed	14		2.0-2.5	0.078"-0.098"	SM14M1 ⁻⁽¹⁾ SM14ML1 ⁻⁽²⁾	SC14M1 ⁻⁽¹⁾ SC14ML1 ⁻⁽²⁾	No insulation grip		S31, S18, TK6
#12 Ø 2.4 mm	Machined	22		0.13-0.4	0.005"-0.015"	82911457N-	82911456-	4.0	0.157"	A, K
	Machined	20		0.5	0.019"	82911459N-	82911458-	4.0	0.157"	A, K
	Machined	18		0.75-1.0	0.029"-0.039"	82911461N-	82911460-	4.0	0.157"	A, K
	Machined	16		1.5	0.059"	82911463N-	82911462-	4.0	0.157"	A, K
	Machined	14		2.5	0.098"	82911465N-	82911464-	4.0	0.157"	A, K
	Machined	12		4	0.157"	82911467N-	82911466-	4.0	0.157"	A, K
#8 Ø 3.6 mm	Machined	16		1.5	0.059"	82913601A	82913600A	6.3		A
	Machined	14		2.5	0.098"	82913603A	82913602A	6.3		A
	Machined	12		4	0.157"	82913605A	82913604A	6.3		A
	Machined	10		6.0	0.236"	82913607A	82913606A	6.3		A
	Machined	8		10.0	0.393"	82913609A	82913608A	6.3		A

(1): contact reeled

(2): loose contact

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

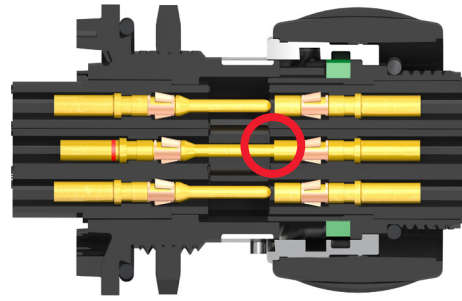
First mate, last break male contacts

Description

The layouts UTGX103, UTGX124, UTGX12E4/12D4, UTGX142G1, UTGX147 and UTGX14E7/14D7 are already designed to have a first mate, last brake 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.



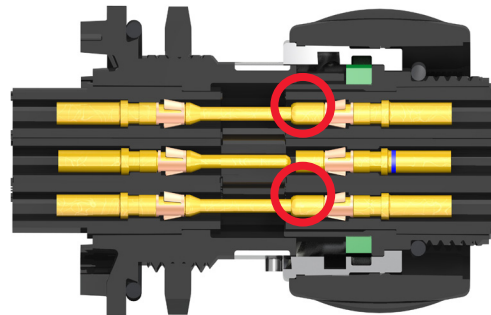
Contact size	Type	Wire size		Part number	Max wire Ø (mm)	Max insulator Ø (mm)	Color band		Available plating see p. 129
		AWG	mm²				Front	Rear	
#16 Ø 1.6 mm	Machined	30-26	0.05-0.08	RM28M1GE1K	0.55	1.0	-	Red	K
	Machined	26-24	0.13-0.2	RM24M9GE1K	0.8	1.6	Red	Red	K
Longer male contact (+1mm)	Machined	20-20	0.32-0.52	RM20M12GE1K	1.15	2.2	Blue	Red	K
	Machined	18-16	0.92-1.5	RM16M23GE1K	1.8	3.2	—	Red	K
	Machined	16-14	1.5-2.5	RM14M30GE1K	2.26	—	—	Red	K

Last break, first mate female contacts

Description

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	Max wire		Max insulator		 Color band		Available plating see p. 129
		AWG	mm²	inch²		Female	Ø (mm)	Ø (inch)	Ø (mm)	Ø (inch)	Front	
#16 Ø 1.6 mm	Machined	30-26	0.05-0.08	0.001"-0.003"	RC28M1GE7K	0.55	0.021"	1.0	0.039"	-	Blue	K
		26-24	0.13-0.2	0.005"-0.007"	RC24M9GE7K	0.8	0.031"	1.6	0.062"	Red	Blue	K
Shorter female contact (-0.7 mm)		20-20	0.32-0.52	0.012"-0.020"	RC20M13GE7K	1.15	0.045"	1.8	0.070"	Black	Blue	K
		20-20	0.32-0.52	0.012"-0.020"	RC20M12GE7K	1.15	0.045"	2.2	0.086"	Blue	Blue	K
		18-16	0.92-1.5	0.036"-0.059"	RC16M23GE1K	1.8	0.070"	3.2	0.125"	—	Blue	K
		16-14	1.5-2.5	0.059"-0.098"	RC14M30GE1K	2.26	0.088"	—	—	—	Blue	K

Coaxial contacts

Eaton 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.



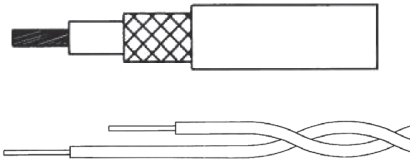
Multipiece crimp coaxial contact

- 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 1.78 to 3.05 mm. Inner conductor up to 2.42 mm diameter
- For jacket diameter from 0.64 to 1.45 mm. 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	Impe- dance	Contact type	Ø over jacket		Ø over dielectric		Inner cond size Ext. Ø mm	Ø outer braid		Male contact kit for coaxial cable	Female contact kit for coaxial cable
			inch	mm	inch	mm		inch	mm		
RG161/U	75	Multi piece	0.09"	2.29	0.057"	1.45	—	—	—	RMDXK10D28	RCDXK1D28
RG179A/U	75	Multi piece	0.105"	2.67	0.063"	1.6	0.3	0.084"	2.13 max	RMDXK10D28	RCDXK1D28
RG179B/U	75	Multi piece	0.105"	2.67	0.063"	1.6	0.3	0.084"	2.13 max	RMDXK10D28	RCDXK1D28
RG187/U	75	Multi piece	0.11"	2.79 max	0.06"	1.52	0.3	—	—	RMDXK10D28	RCDXK1D28
RG188/U	48	Multi piece	0.11"	2.79 max	0.06"	1.52	0.51	0.078"	1.98 max	RMDXK10D28	RCDXK1D28
RG174/U	48	Multi piece	0.11"	2.92	0.06"	1.52	0.48	0.088"	2.24 max	RMDXK10D28	RCDXK1D28
AMPHENOL 21-598	48	Multi piece	0.105"	2.67	0.06"	1.52	0.48	—	—	RMDXK10D28	RCDXK1D28
RG196/U	48	Multi piece	0.08"	2.03 max	0.034"	0.86	0.3	—	—	RMDXK10D28	RCDXK1D28
RG152A/U	48	Multi piece	0.075"	1.91	0.034"	0.84	0.3	0.054"	1.37 max	RMDXK10D28	RCDXK1D28
RG188A/U	48	Mono crimp	0.110"	2.79	0.06"	1.52	0.51	0.078"	1.98 max	RMDX6036D28	RCDX6036D28
KX21TVT (europe) RG152 B/U	48	Mono crimp	0.075"	1.91	0.034"	0.84	0.3	0.054"	1.37 max	RMDX6034D28	RCDX6034D28
RG152 / BU	48	Mono crimp	0.075"	1.91	0.034"	0.84	0.3	0.054"	1.37 max	RMDX6050D28	RCDX6016D28
RG174/U	48	Mono crimp	0.115"	2.92	0.06"	1.52	0.48	0.088"	2.24 max	RMDX6032D28	RCDX6032D28
RG188A/U	48	Mono crimp	0.11"	2.79	0.06"	1.52	0.51	0.078"	1.98 max	RMDX6036D28	RCDX6036D28
RG316/U	48	Mono crimp	0.107"	2.72	0.06"	1.52	0.51	0.078"	2.05 max	RMDX6036D28	RCDX6036D28
raychem 5024A3111	48	Mono crimp	0.12"	3.05	0.083"	2.11	0.64	0.097"	2.46	RMDX6052D28	RCDX6052D28
raychem 5026e1614	48	Mono crimp	0.083"	2.11	0.05"	1.27	0.48	0.067"	1.7	RMDX6036D28	RCDX6036D28
surprenant pn 8134	—	Multi piece	0.1"	2.54	0.058"	1.47	0.3	—	—	RMDXK10D28	RCDXK1D28
PRD PN 247AS-C1123-001	—	Mono crimp	0.103"	2.62	0.06"	1.52	0.51	0.078"	1.98	RMDX6018D28	RCDX6018D28
PRD PN 247AS-C1251	—	Mono crimp	0.092"	2.34	0.05"	1.27	0.64	0.067"	1.7	RMDX6018D28	RCDX6018D28
JUDD C15013010902	—	Mono crimp	0.087"	2.13	0.05"	1.27	0.48	0.066"	1.67	RMDX6036D28	RCDX6036D28
CDC PIN22939200	—	Mono crimp	0.09"	2.29	0.048"	1.20	0.3	0.064"	1.63	RMDX6046D28	RCDX6016D28
CDC PIN22939200	—	Mono crimp	0.09"	2.29	0.048"	1.20	0.3	0.064"	1.63	RMDX6050D28	RCDX6016D28
CDC PIN245670000	—	Mono crimp	0.104"	2.64	0.067"	1.7	0.3	0.083"	2.11	RMDX6050D28	RCDX6016D28
ampex	—	Mono crimp	0.114"	2.9	0.075"	1.91	0.36	0.09"	1.29	RMDX6032D28	RCDX6032D28
TI PN 920580	—	Mono crimp	0.7"	1.78	0.038"	0.94	0.48	0.054"	1.37	RMDX6024D28	RCDX6024D28
Honeywell PN 58000062	—	Mono crimp	0.12"	3.05	0.077"	1.94	0.41 solid	0.096"	2.42	RMDX6026D28	RCDX6026D28
—	—	Mono crimp	0.104"	2.64	0.067"	1.7	0.3	—	2.11	RMDX6050D28	—
—	—	Mono crimp	0.09"	2.29	0.048"	1.20	0.3	—	1.63	RMDX6050D28	—
—	—	Mono crimp	0.114"	2.9	0.075"	1.91	0.36	—	1.29	RMDX6032D28	RCDX6032D28
—	—	Mono crimp	0.07"	1.78	0.038"	0.94	0.48	—	1.37	RMDX6024D28	RCDX6024D28
—	—	Mono crimp	0.12"	3.05	0.077"	1.94	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 mm	inch	mm		
2#24 stranded MIL-W-16878 type B	Multi piece	24	0.049"	1.24 max	7/.008	—	—	—	RMDXK10D28	RCDXK1D28
2 #24 solid MIL-W-74 type LW	Multi piece	24	0.047"	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"	1.09 max	7/.0063	0.16	—	—	RMDXK10D28	RCDXK1D28
2 #26 solid MIL-W-81822/3	Multi piece	26	0.028"	0.71 max	—	—	—	—	RMDXK10D28	RCDXK1D28
Twisted pair 1/.201 solid MIL-W-74 type LW or MIL-W-16878	Multi piece	26	0.044"	1.12 max	1/.0201	0.511	—	—	RMDXK10D28	RCDXK1D28
Twisted pair solid MIL-W-81822/3	Multi piece	26	0.028"	0.71 max	1/.0126	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	0.16	—	—	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	0.049"	1.25	—	—	0.748x 0.003	19x0.1	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—	Mono crimp	24	0.049"	1.25	—	—	0.275x 0.007	7x0.2	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—	Mono crimp	24	0.057"	1.45	—	—	0.748x 0.005	19x0.13	RMDX6019D28 + YORX090	RCDX6019D28 + YORX090
—		26	0.027"	0.7	—	—	0.275x 0.006	7x0.16	RMDX6031D28 + YORX090	RCDX6031D28 + YORX090

PCB contacts supplied separately - UTGX standard series

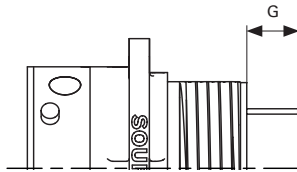
PCB soldering



The UTGX 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 129
#20 Ø 1 mm	Short version	RMW50A7K	RCW50A7K	K
	Long version	RMW5016K	RCW5016K	K
#16 Ø 1.6 mm	Short version	RM20M12E8K	RC20M12E8K	K
	Long version	RM20M12E83K	RC20M12E83K	K
			RC20M12E84K	K
#8 Ø 3.6 mm	—	82911685NPC	82911684NPC	2 µm Ni
		82911685NAPC	82911684NAPC	3 µm Ag

Minimal length G (mm)



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

UTGX0 with PCB contacts #16

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

UTGX7 with PCB contacts #20 and #16

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

* Plating indication see **Page 128**

UTGX7 with PCB contacts #16 and #8

Connector size	Pin contact		Socket contact	
	RM20M12E83K*	82911685NPC*	RC20M12E87K*	82911684NPC*
UTGX7142G1P	—	6.4	—	—
UTGX7142G1S	—	—	—	8.2
UTGX7142G1SNPT	—	5.8	—	5.4
UTGX718X2M3	4.9	4.5	3.6	5.2
UTGX7183G1SNPT	—	—	—	4.17

* Plating indication see **Page 126**

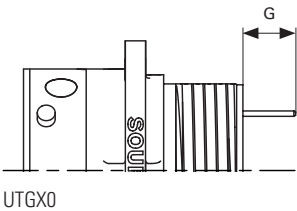
PCB contacts loaded - UTGX sealed unmated series

PCB soldering

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

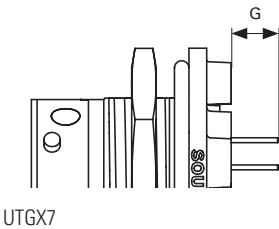
Minimal length G (mm)

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



UTGX0

Connector size	Connector part Number	Pin contact		Socket contact	
		G min	G max	G min	G max
10	10D6 - 10D98 - 10D7	8.1	10.2	8.1	10.3
12	12D2 - 12D3 - 12D8 - 12D10	8.1	10.2	8.1	10.3
12	12D4	8.2	10	8.1	10.3
12	12D14	7.2	9	7.1	9.2
14	14D5 - 14D12 - 14D15 14D18 - 14D19	8.1	10.2	8.1	10.3
14	14D7	8.2	10	8.1	10.3



UTGX7

Connector size	Connector part Number	Pin contact		Socket contact	
		G min	G max	G min	G max
10	10D6 - 10D98 - 10D7	4.7	7.3	4.7	7
12	12D2 - 12D3 - 12D8 - 12D10	4.7	7.3	4.8	7
12	12D4	4.9	7.1	4.8	7
12	12D14	3.9	6.2	3.8	6
14	14D5 - 14D12 - 14D15 14D18 - 14D19	4.8	7.3	4.9	7
14	14D7	4.9	7.1	4.9	7

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

POF



Description

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

The fiber optic contacts are designed to accommodate:

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

Typical features and benefits are:

- Socket contact is spring loaded to avoid any air gap between the two optical faces.
- 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: 2.2mm
- 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, UTO, UTL.

Ordering information

Plastic Optical Fiber contact

Male contact	Female contact
RMPDF1000	

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 0.5 mm, 0.6 mm, 0.7 mm & 3.8 mm
80WM0006	Ruler
80WP0005	Polishing plate
80WP0013	Non slip base (to hold the polishing plate)
80WP0014	Polishing disk (grain size 9µm)
80WP0018	Polishing tool
80WP0019	Polishing disk (grain size 30µm)
80WS0002	Crimping plier

Specific tooling list - Can only be ordered separately

Part 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 1 mm	RM/RC 24W3K	S20RCM	SHANDLES	RX20D44
	RM/RC 20W3K	S20RCM	SHANDLES	RX20D44
	RM/RC 18W3K	S20RCM	SHANDLES	RX20D44
	SM 24WL3S*(1) SC 24WL3S*(1)	S20SCM20	SHANDLES	RX20D44
	SM/SC 20WL3S*(1)	S20SCM20	SHANDLES	RX20D44
#16 Ø 1.6 mm	RM/RC 28M1*	S16RCM20	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 24M9*	S16RCM20	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 20M13*	S16RCM20	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 20M12*	S16RCM20	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 16M23*	S16RCM16	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	RM/RC 14M30*	S16RCM14	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 24ML1*(1)	S16SCM20	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 20ML1*(1)	S16SCM20	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 16ML1*(1)	S16SCML1	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 14ML1*(1)	SHANDLES	SHANDLES	RX2025GE1 or RX2031J long endurance tool
	SM/SC 16ML11*(1)	S16SCML11	SHANDLES	RX2025GE1 or RX2031J long endurance tool

(1): loose contact

(*) : endurance of SHANDLES & Head tools = 48,000 cycles

Contact size	Part number	Tool with separate locator		Extraction tools
		Hand tool	Positioner + locator setting	
#12 Ø 2.4 mm	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 3.6 mm	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 126** for plating options and other contact details

Specific contacts (First mate, last break contacts)

Contact size	Part number*	Hand tools		Tool with separate locator		Extraction tools
		(SHANDLES) Head	Hand tool	Positioner + locator setting		
#16 Ø 1.6 mm 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 1.6 mm 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 129** for plating options and other contact details

Coaxial contacts

Please consult us.

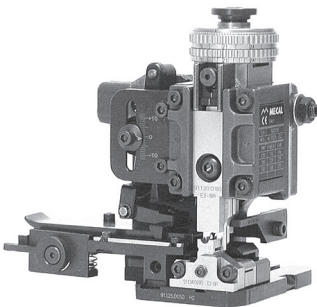
Souriau UTGX series

Fiber optic contacts

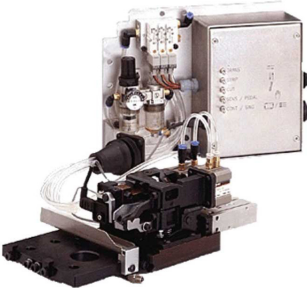
Automatic crimping tools

Contact Mecal for semi-automatic production tools.

Mecal sales network:
www.mecal.net



Min Applicator



Stripper



Presses

Our clients are free to may use any other manufacturer machines, which meets the following cumulative requirements criteria:

- Compliance with IPC 620 class 3 standard,
- Compliance with IEC 60352-2 standard,
- Crimp height & width (cf. page 143)

Extraction tool



RX20D44



51060210924



RX2031J



RX2025GE1



51060210936

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

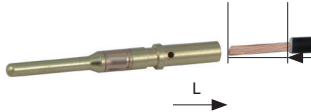
Contact extraction instruction



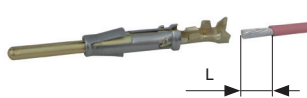
Place the tool into the cavity from front face of the connector, push on the handle, then remove the contact.

Wire stripping crimp version

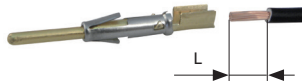
Machined contact



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

Stamped & Formed
with insulation support

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

Stamped & Formed
without insulation support

Contact size	Part number		Stripping length L	
	Male	Female	(mm)	(inch)
#16 (Ø 1.6 mm)	SM16M1- / SM16ML1-	SC16M1- / SC16ML1-	6.35	0.25"
#16 (Ø 1.6 mm)	SM14M1- / SM14ML1-	SC14M1- / SC14ML1-	6.35	0.25"

Power contacts



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

Note: See page 128 for plating options and other contact details

Wire stripping solder and screw versions

Solder contact delivered with
connector

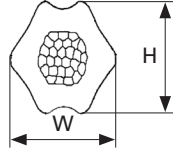
Contact size	Stripping length L	
	(mm)	(inch)
#16 (Ø 1.6 mm) & #20 (Ø 1 mm)	5	0.196"

Screw contact delivered with
connector

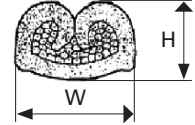
Contact size	Stripping length L	
	(mm)	(inch)
#16 (Ø 1.6 mm)	5.8	0.228"

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 & Formed contact

Active contact part	Contact type	Die location on heads	Wire section range	Section (inch ²)	Tensile straight test (min)	Height W (±0.002") (inch)	Width W (±0.002") (inch)	Tooling head part number
Machined contacts size #20 Ø 0.039"	RM24W3K RC24W3K	26/24	26 AWG	0.004" min	15 N	0.037"	0.05"	S20RCM
			24 AWG	0.009" max	32 N	0.037"	0.05"	S20RCM
	RM20W3K RC20W3K	22/20	22 AWG	0.012" min	40 N	0.049"	0.070"	S20RCM
			20 AWG	0.019" max	60 N	0.049"	0.070"	S20RCM
	RM18W3K RC18W3K	20/18	20 AWG	0.019" max	60 N	0.053"	0.073"	S20RCM
			18 AWG	0.032" max	90 N	0.053"	0.073"	S20RCM
S & F contacts size #20 Ø 0.039"	SM24WL3TK6* SC24WL3TK6*	26/24	26 AWG	0.004" min	15 N	0.031"	0.058"	S20SCM20
			24 AWG	0.009" max	32 N	0.031"	0.058"	S20SCM20
	SM20WL3TK6* SC20WL3TK6*	22/20	22 AWG	0.012" min	40 N	0.039"	0.060"	S20SCM20
			20 AWG	0.019" max	60 N	0.039"	0.060"	S20SCM20
Machined contacts size #16 Ø 0.062"	RM28M1K* RC28M1K*	30/28	30 AWG	0.001" min	11 N	0.044"	0.055"	S16RCM20
			28 AWG	0.003" max	6 N	0.044"	0.055"	S16RCM20
	RM24M9K* RC24M9K*	26/24	26 AWG	0.004" min	15 N	0.045"	0.055"	S16RCM20
			24 AWG	0.009" max	32 N	0.045"	0.055"	S16RCM20
	RM20M13K* RC20M13K*	22/20	22 AWG	0.012" min	40 N	0.049"	0.069"	S16RCM20
			20 AWG	0.019" max	60 N	0.049"	0.069"	S16RCM20
	RM20M12K* RC20M12K*	22	22 AWG	0.012" min	40 N	0.049"	0.069"	S16RCM20
			20 AWG	0.019" max	60 N	0.049"	0.069"	S16RCM20
	RM16M23K* RC16M23K*	18	18 AWG	0.032" max	90 N	0.070"	0.089"	S16RCM16
			16	16 AWG	150 N	0.077"	0.095"	S16RCM16
	RM14M30K* RC14M30K*	16	16 AWG	0.059" min	150 N	0.082"	0.105"	S16RCM14
			14	14 AWG	230 N	0.090"	0.109"	S16RCM14
S & F contacts size #16 Ø 0.062"	SM24ML1TK6* SC24ML1TK6*	26/24	26 AWG	0.004" min	15 N	0.033"	0.059"	S16SCM20
			24 AWG	0.009" max	32 N	0.033"	0.059"	S16SCM20
	SM20ML1TK6* SC20ML1TK6*	22/20	22 AWG	0.012" min	40 N	0.040"	0.060"	S16SCM20
			20 AWG	0.019" max	60 N	0.040"	0.060"	S16SCM20
	SM16ML11TK6* SC16ML11TK6*	18	18 AWG	0.032" min	90 N	0.051"	0.082"	S16SCML11
			16	16 AWG	150 N	0.053"	0.082"	S16SCML11
	SM16ML1TK6* SC16ML1TK6*	18	18 AWG	0.032" min	90 N	0.058"	0.079"	S16SCML1
			16	16 AWG	150 N	0.066"	0.080"	S16SCML1
	SM14ML1TK6* SC14ML1TK6*	14	14 AWG	0.098" max	230 N	0.070"	0.101"	S16SCML1

(*): example of plating, for other plating see **Page 126**

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

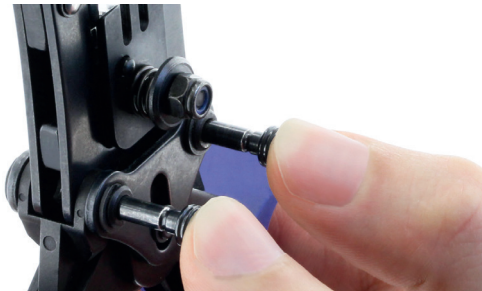
Crimping with Souriau tooling



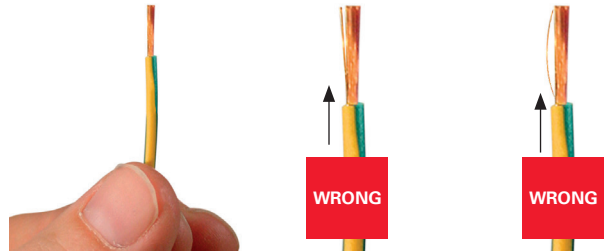
- 1) Fully close then release the tool, keep it open. Open the two pins.



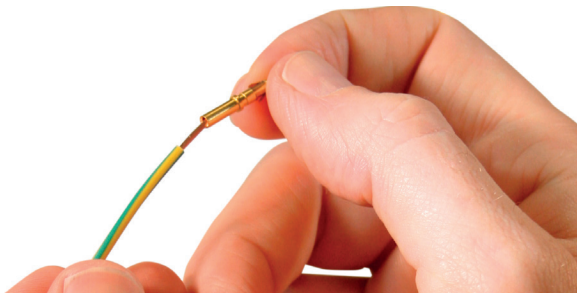
- 2) Choose the adapter head (sold separately). Keep vertical and slide it into the handle until the mechanical stop.



- 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 142.



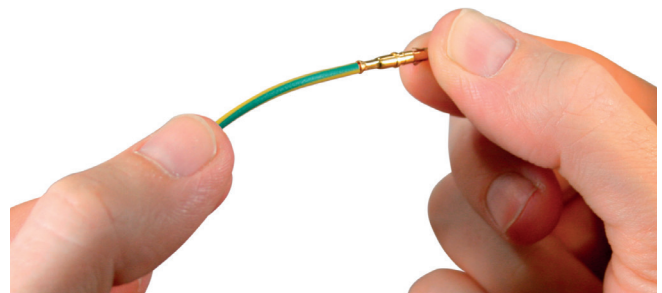
- 5) Place conductors, with no deterioration, in the contact bucket. All strands to be located in the crimp bucket.



- 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 143).

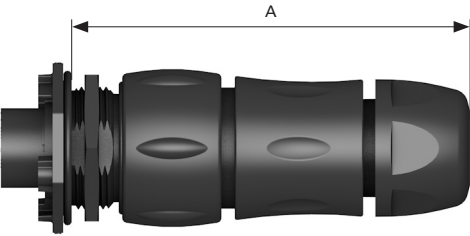
Note: Assembly operations mentioned above shall not interfere or to be in contradiction with the IPC-WHMA-A-620B

Souriau UTGX series

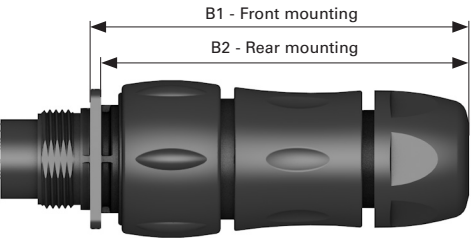
Dimensions

Mated connector lengths (mm)

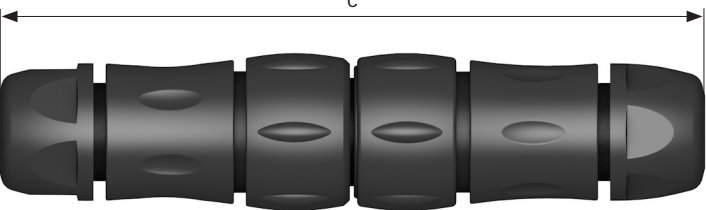
UTGX7 + UTGX6JC



UTGX0 + UTGX6JC



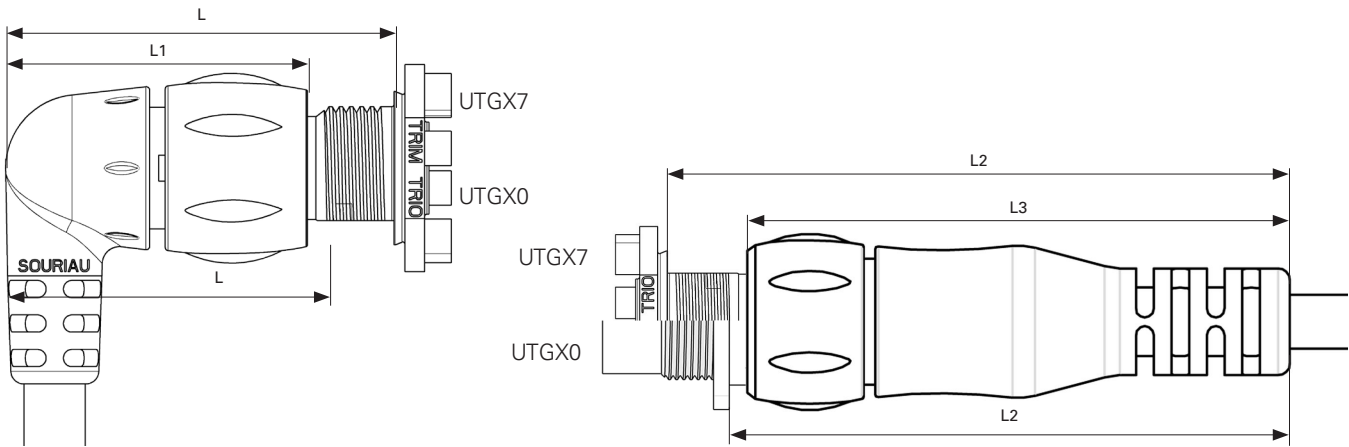
UTGX1JC + UTGX6JC



Shell size	UTGX7 + UTGX6JC	UTGX0 + UTGX6JC	UTGX1JC + UTGX6JC	
	A max	B1 max	B2 max	C max
10	74	72	69.5	132
12	79	75	73	138
14	85.5	81.5	79	150.5

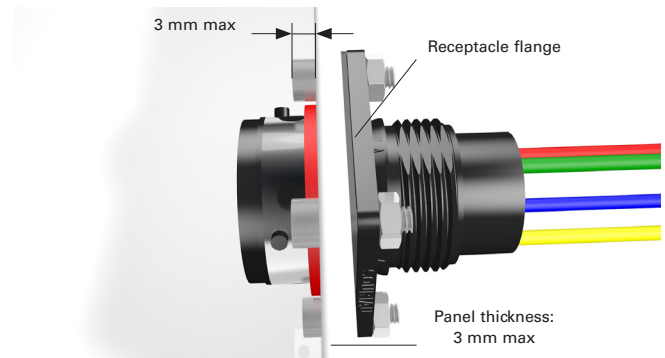
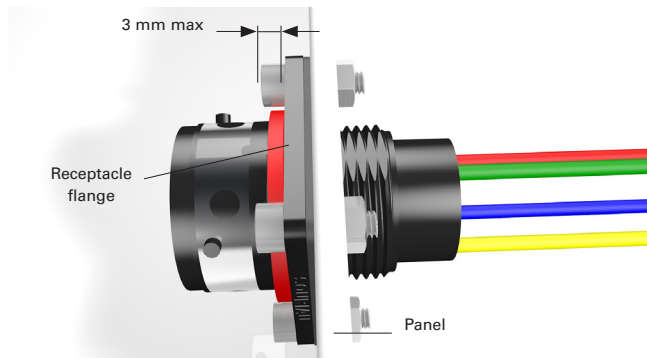
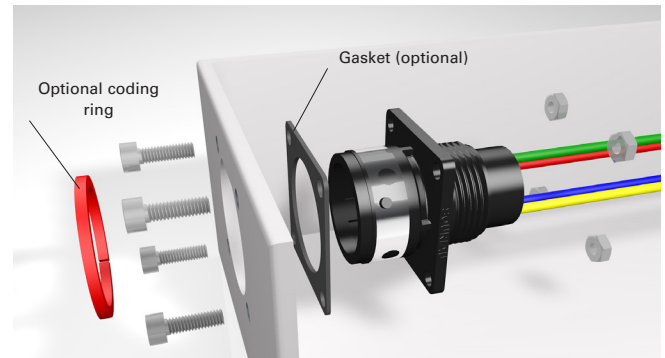
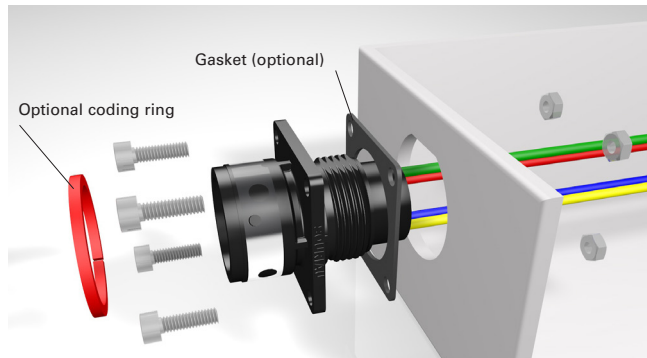
Overmoulded cable assembly dimensions (mm)

Shell size	UTGX0				UTGX7			
	L max	L1 max	L2 max	L3 max	L max	L1 max	L2 max	L3 max
8	42.8	36.8	80.7	57.2	46.8	36.8	85.8	57.2
10	55.8	48.3	98.6	92	58.5	48.3	100.7	92
12	57.1	51.4	99.3	93.7	61.4	51.4	106.4	93.7
14	62.5	56.3	100.3	94.6	67.6	56.3	104.8	94.6

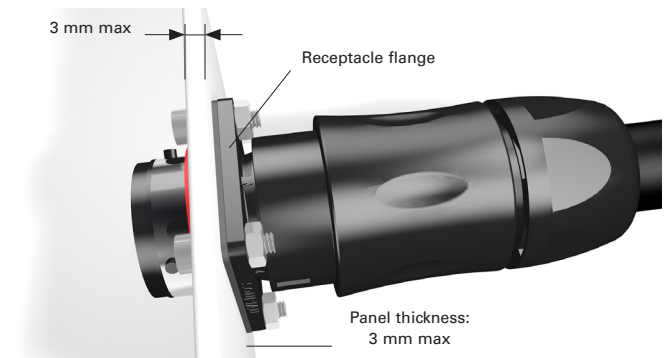
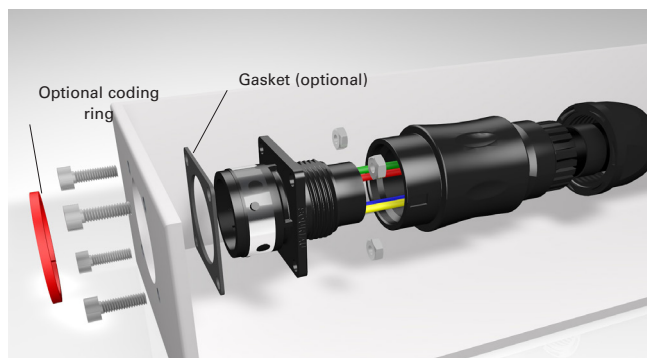


UTGX0 or UTGX0JC assembly (Mounting suggestion)

- Strip wires, crimp or solder contacts (see Pages 141 & 142)
- 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

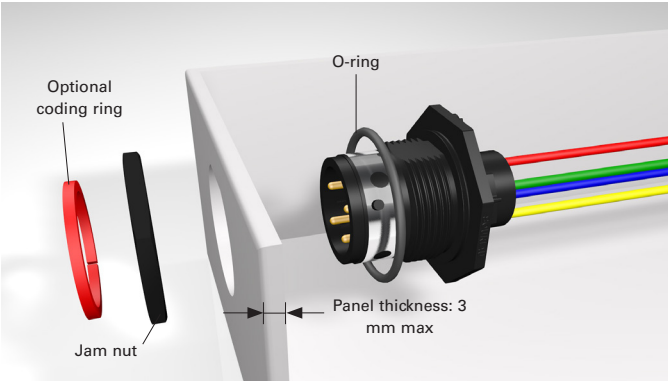
Shell size	Screw tightening torque (Nm)
10	0.30/0.40
12	0.30/0.40
14	0.30/0.40

UTGX0JC rear mounting

UTGX7 assembly (Mounting suggestion)

- Strip wires and crimp contacts (see Pages 141 & 142)
- 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

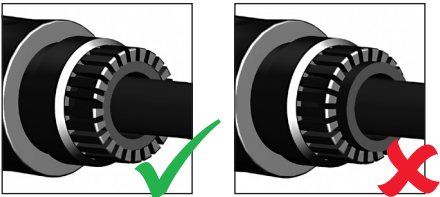
Crimp or solder version



Shell size	Jam nut torque (Nm) max	Exterior jam nut dim. (mm)	Ø Wire	Discrete wire sealing
10	3	20.2	3.2 mm max.	From 1.7 mm to 3.0 mm
12	4	27.0	3.2 mm max.	From 1.7 mm to 3.0 mm
14	5	30.1	3.2 mm max.	From 1.7 mm to 3.0 mm

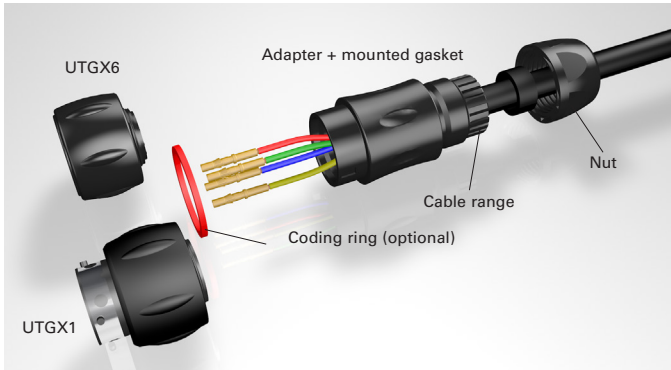
UTGX1JC or UTGX6JC assembly: Crimp version

- Slide accessories onto the cable

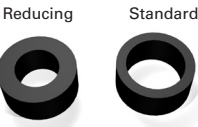


Make sure the seal is positioned as shown.

- Mate the plug with a corresponding counter part
- Strip external cable jacket
- Strip wires and crimp contacts (.)
- Insert contacts into connector cavities (insert manually or use tool RTM205)
- Tighten adapter with plug UTGX6 or receptacle UTGX1, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTGX1 or UTGX6 (recommended torque values to be applied according to table below)
- Caution: only one of the two gaskets included should be used!



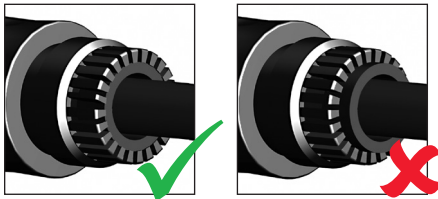
Cable ranges



Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal (mm)	Ø Cable range Reducing seal (mm)	Ø Wire
	Male	Female					
10	21	29	1.5	1	5/8.0	3/5.0	From 1.7 mm to 3.0 mm
12	25	33	2.5	2	8/12.0	5/9.0	From 1.7 mm to 3.0 mm
14	29	36	3	2.5	10/14.0	8/12.0	From 1.7 mm to 3.0 mm

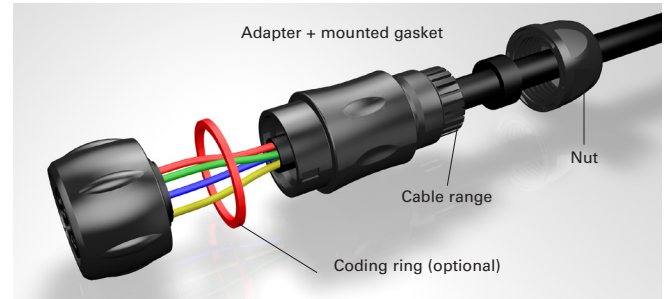
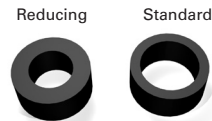
UTGX6JC assembly (Mounting suggestion)

- Slide accessories onto the cable



Make sure the seal is positioned as shown.

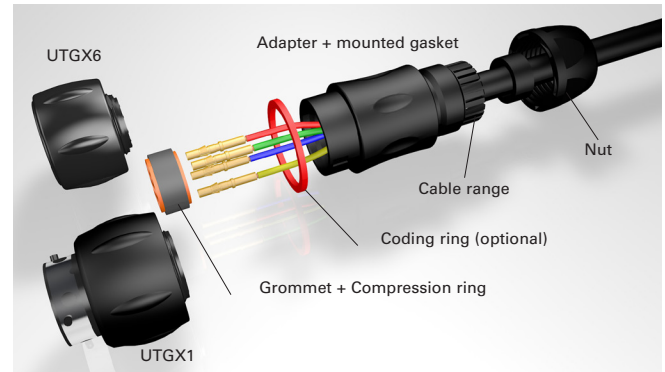
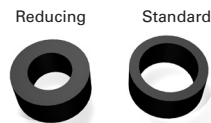
- Mate the plug with a corresponding receptacle
- Strip external cable jacket (see Pages 141 & 142)
- Solder contacts
- Tighten adapter with plug, choose right seal (waste the other seal)
- Tighten the nut to rear of either UTGX6 (recommended torque values to be applied according table to the right)
- Caution: only one of the two gaskets included should be used!

**Cable ranges**

Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal (mm)	Ø Cable range Reducing seal (mm)	Ø Wire
	Male						
10	21		1.5	1	5/8.0	3/5.0	From 1.7 mm to 3.0 mm
12	25		2.5	2	8/12.0	5/9.0	From 1.7 mm to 3.0 mm
14	29		3	2.5	10/14.0	8/12.0	From 1.7 mm to 3.0 mm

UTGX1GJC or UTGX6GJC 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 141 & 142)
- 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 UTGX6 or receptacle UTGX1, choose correct seal
- Tighten the nut to rear of either UTGX1 or UTGX6 (recommended torque values to be applied according to the table right).

**Cable ranges**

Shell size	Recommended jacket strip length (mm)		Adapter tightening torque (Nm)	Nut tightening torque (Nm)	Ø Cable range Standard seal (mm)	Ø Cable range Reducing seal (mm)	Ø Wire
	Male	Female					
10	21	29	1.5	1	5/8.0	3/5.0	From 1.7 mm to 3.0 mm
12	25	33	2.5	2	8/12.0	5/9.0	From 1.7 mm to 3.0 mm
14	29	36	3	2.5	10/14.0	8/12.0	From 1.7 mm to 3.0 mm

Souriau UTGX series

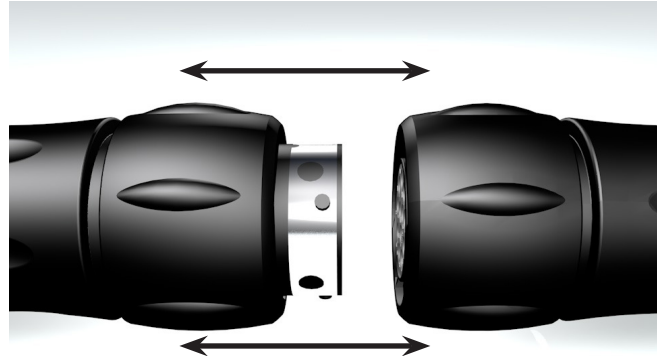
Mating procedure

UTGX coupling procedure

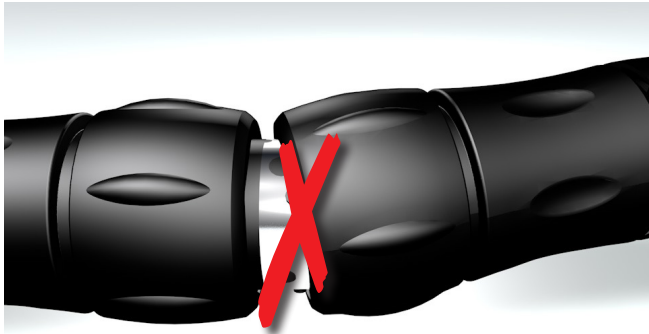
The pictures below provides step by step instructions on how to mate a plug and receptacle connector in order to avoid damaging any of the contacts.



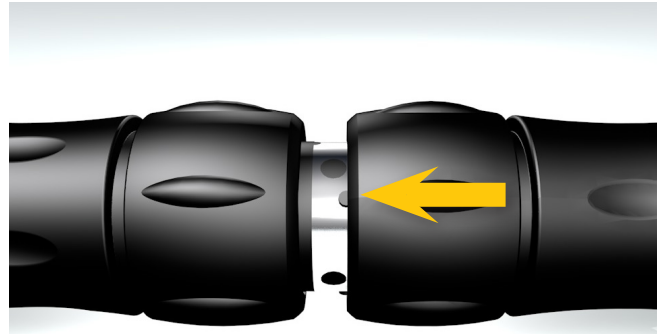
1 - Identify the primary key of each connector.



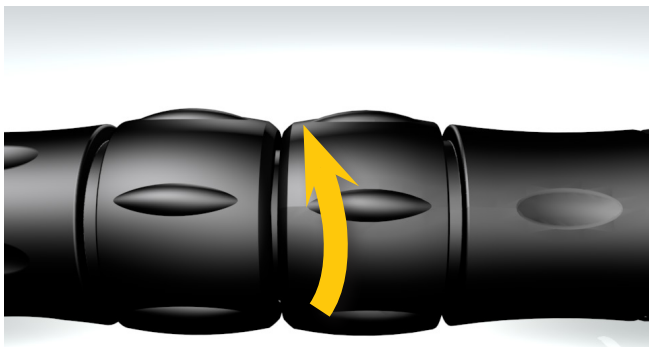
2 - Align the primary keys of the connectors.



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 & Fig.2). Wire size plays an important role in dissipating heat and avoiding overheating (Fig.1 & Fig.3).

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

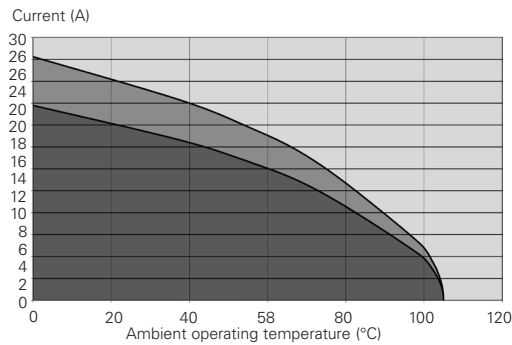


Fig.1: UTGX 12-4 – 1.5 mm² wires

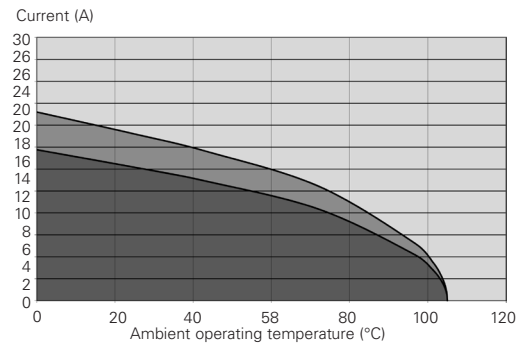


Fig.2: UTGX 12-8 – 1.5 mm² wires

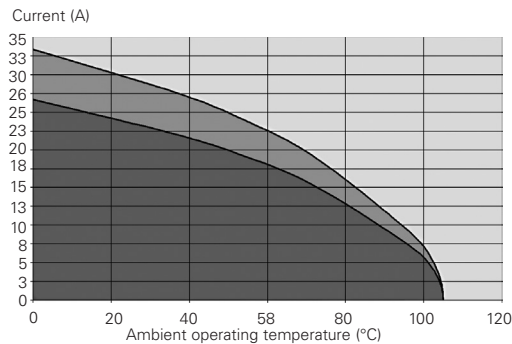


Fig.3: UTGX 12-4 – 2.5 mm² wires

- Current use
- Limited use
- Not recommended use

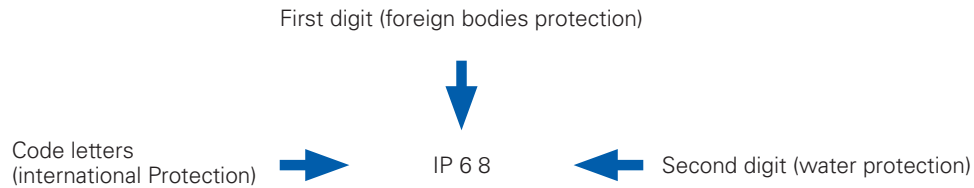
The rated current is defined as uninterrupted continuous current that a connector can take when all contacts are energized simultaneously without exceeding the maximum limit of temperature. The earth contact is never loaded.

UV resistance

Plastics can be susceptible to extreme degradation over time. The UTGX series is made with (f1) material according to UL746C. The UTGX material withstand a 1000h UV exposure according ISO4892 without significant color variation, cracking or variation of mechanical properties.

Protection provided by an enclosure

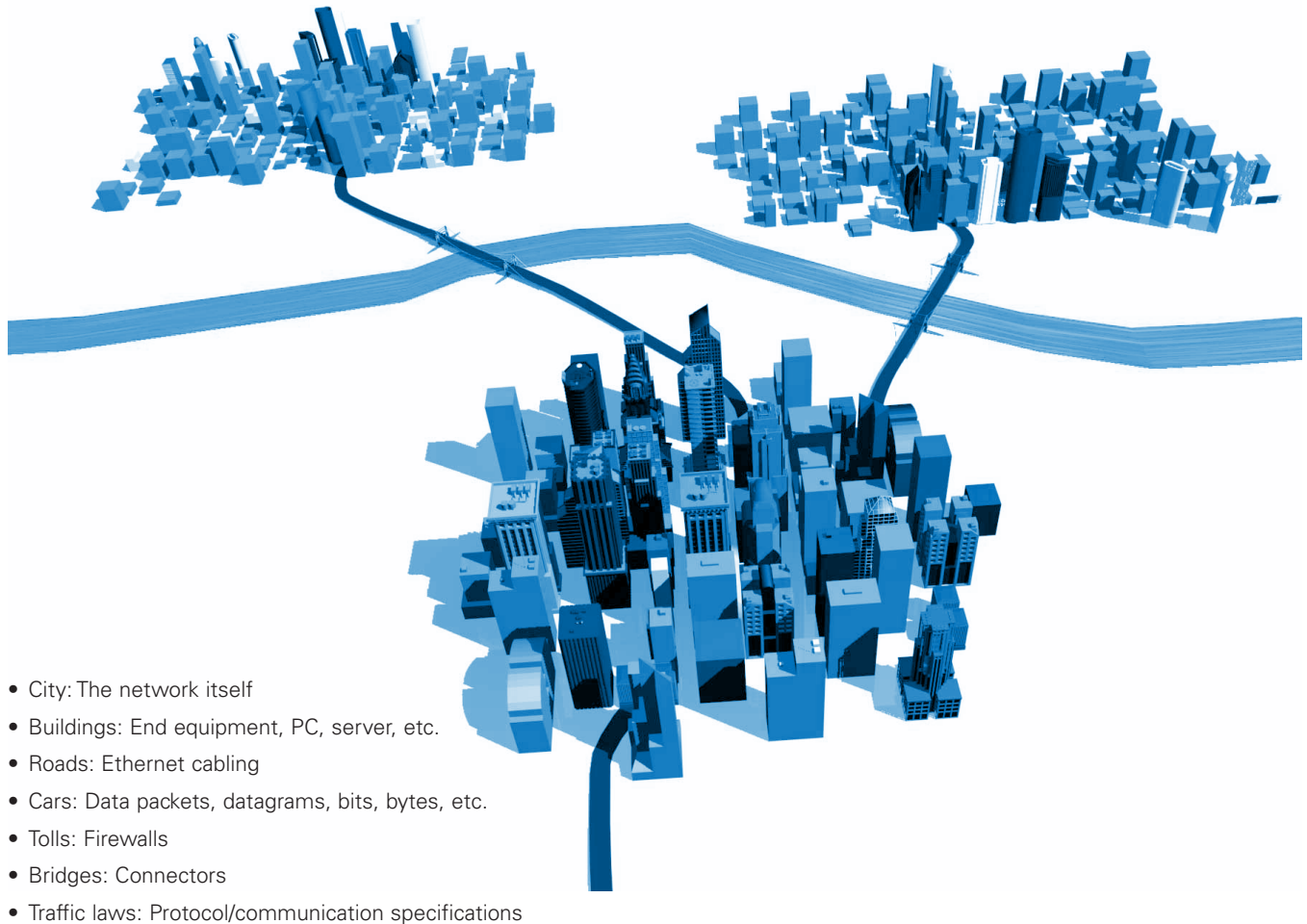
For safety reasons, electrical equipment needs to be protected against outside influences. The basis for the determination is the standard IEC 60529. IP is a coding system that provides information regarding the accessibility of live parts against ingress of water or other foreign bodies.



1st digit	Degree of protection	2nd digit	Degree of protection
0	No protection against accidental contact. No protection against solid foreign bodies.	0	No protection against water.
1	Protection against contact with any large area by hand and against large solid foreign bodies with a diameter bigger than 48 mm.	1	Drip-proof. Protection against vertical water drips.
2	Protection against contact with the fingers. Protection against solid foreign bodies with a diameter bigger than 12 mm.	2	Drip-proof. Protection against water drips up to a 15° angle.
3	Protection against tools, wires or similar objects with a diameter bigger than 2.5 mm. Protection against small solid bodies with a diameter bigger than 2.5 mm.	3	Spray-proof. Protection against diagonal water drips up to a 60° angle.
4	Same as 3 however diameter is bigger than 1 mm.	4	Splash-proof. Protection against splashed water from all directions.
5	Full protection against contact. Protection against interior injurious dust deposits.	5	Hose-proof. Protection against water (out of a nozzle) from all directions.
6	Total protection against contact. Protection against penetration of dust.	6	Protection against powerful water jets .
UTGX offers high sealing: IP68/69K even in dynamic situations.		7	Protection against temporary immersions.
		8	Protection against water pressure. Pressure and immersion time to be specified by supplier.
		9K	High pressure hose-proof. Protection against high pressure water (out of a nozzle) from all directions.

In addition to the IEC 60529 we conjointly use the ISO 20653 for the implementation of IPx9K testing:

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



Ethernet basics

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

Examining the differences between 100Mhz, 100 Base TX, Cat5e/Cat6. What does it all mean?

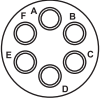
When discussing connectors and Ethernet, there are a few key details to be aware of

- 100Mhz is a measurement of Frequency for the signal
 - Comparable to the Speed Limit of a highway
- 100BaseTX (or Fast Ethernet) is an Ethernet link standard and identifies available link bandwidth. The bandwidth is measured in units of MBits/S (megabits per second)
 - Comparable to the number of cars that pass a point in one second
- Cat5e/Cat6 are an EIA/TIA standard for performance and physical characteristics for cables and connectors
 - Comparable to performance specifications of the car and highway.

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

Eaton offering

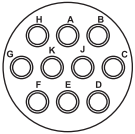
Standard solutions



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

UTGX 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 Ø 1 mm (#20)

UTGX 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.

What about using coax contacts?

Ethernet twisted pairs carry a symmetrical (balanced) signal. With coax contacts, the inner core will be shielded, but not the outer core, resulting in an unbalanced signal due to electromagnetic interferences. Therefore, coax contacts will not work correctly and are not recommended.

What about using Quadrax contacts?

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.

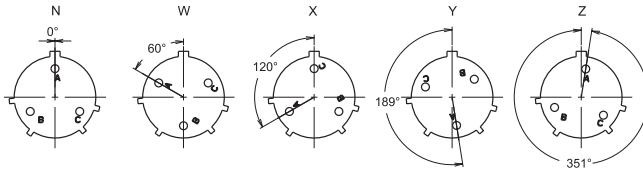
In other industries, UTP (Unshielded Twisted Pair) cables are widely used. Quadrax contacts are not designed to terminate UTP cables and are not recommended.

Conclusion

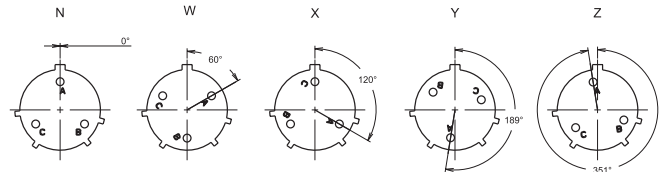
To carry 100Mb/s data signals, 100BaseTX or Fast Ethernet, it is recommended to use Cat5e connectors as well as Cat5e cables with the support of a 100MHz signal. However, a 100Mb/s signal can be transmitted in certain conditions: short distance, only one connector, lower frequency, and so does not necessarily need to be Cat5e rated.

The UTGX 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. **UTGX6JC104S** (N key) → **UTGX6JC104SW** (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 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°	—

(*): Not UL qualified on these orientations

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

Another solution to eliminate mismatching is to use a SMSPKE0 dummy contact, which can be inserted into an empty #16 male contact cavity. The UTGX male connector will only mate with a female connector that has a vacant contact cavity at the corresponding position.



Connectors

Free hanging receptacle with cable gland

UTGX1JC102W2P.....	36
UTGX1JC102W2S.....	36
UTGX1JC103P.....	18
UTGX1JC103S.....	18
UTGX1JC103W3P.....	50
UTGX1JC103W3S.....	50
UTGX1JC104P.....	41
UTGX1JC104S.....	41
UTGX1JC106P.....	56
UTGX1JC106S.....	56
UTGX1JC1210P.....	89
UTGX1JC1210S.....	89
UTGX1JC124P.....	31
UTGX1JC124PSCR.....	31
UTGX1JC124S.....	31
UTGX1JC124SSCR.....	31
UTGX1JC128P.....	74
UTGX1JC128S.....	74
UTGX1JC1412P.....	94
UTGX1JC1412S.....	94
UTGX1JC1419P.....	120
UTGX1JC1419S.....	120
UTGX1JC142G1P.....	23
UTGX1JC142G1S.....	23
UTGX1JC147P.....	65
UTGX1JC147PSCR.....	65
UTGX1JC147S.....	65
UTGX1JC147SSCR.....	65
UTGX1JC148P.....	83
UTGX1JC148S.....	83
UTGX1JC1492P.....	103
UTGX1JC1492S.....	103

Jam nut receptacle only

UTGX7102W2P.....	36
UTGX7102W2S.....	36
UTGX7103P.....	18
UTGX7103S.....	18
UTGX7103W3P.....	50
UTGX7103W3S.....	50
UTGX7104P.....	41
UTGX7104S.....	41
UTGX7106P.....	56
UTGX7106S.....	56
UTGX710D6P.....	56
UTGX710D6P32.....	56
UTGX710D6S.....	56
UTGX710D6S32.....	56
UTGX710D7P.....	70
UTGX710D7P32.....	70
UTGX710D7S.....	70
UTGX710D7S32.....	70
UTGX710D98P.....	61
UTGX710D98P32.....	61
UTGX710D98S.....	61
UTGX710D98S32.....	61
UTGX710E6P.....	56
UTGX710E6S.....	56
UTGX710E7P.....	70
UTGX710E7S.....	70
UTGX710E98P.....	61
UTGX710E98S.....	61
UTGX71210P.....	89
UTGX71210S.....	89
UTGX7124P.....	31
UTGX7124PSCR.....	31

UTGX7124S.....	31
UTGX7124SSCR.....	31
UTGX7128P.....	74
UTGX7128S.....	74
UTGX712D10P.....	89
UTGX712D10P32.....	89
UTGX712D10S.....	89
UTGX712D10S32.....	89
UTGX712D14P.....	108
UTGX712D14P32.....	108
UTGX712D14S.....	108
UTGX712D14S32.....	108
UTGX712D2P.....	14
UTGX712D2P32.....	14
UTGX712D2S.....	14
UTGX712D2S32.....	14
UTGX712D3P.....	26
UTGX712D3P32.....	26
UTGX712D3S.....	26
UTGX712D3S32.....	26
UTGX712D4P.....	31
UTGX712D4P32.....	31
UTGX712D4S.....	31
UTGX712D4S32.....	31
UTGX712D8P.....	79
UTGX712D8P32.....	79
UTGX712D8S.....	79
UTGX712D8S32.....	79
UTGX712E10P.....	79
UTGX712E10S.....	79
UTGX712E14P.....	108
UTGX712E14S.....	108
UTGX712E2P.....	14
UTGX712E2S.....	14
UTGX712E3P.....	26
UTGX712E3S.....	26
UTGX712E4P.....	31
UTGX712E4S.....	31
UTGX712E8P.....	79
UTGX712E8S.....	79
UTGX71412P.....	94
UTGX71412S.....	94
UTGX71419P.....	120
UTGX71419S.....	120
UTGX7142G1P.....	23
UTGX7142G1S.....	23
UTGX7147P.....	65
UTGX7147PSCR.....	65
UTGX7147S.....	65
UTGX7147SSCR.....	65
UTGX7148P.....	83
UTGX7148S.....	83
UTGX71492P.....	103
UTGX71492S.....	103
UTGX714D12P.....	109
UTGX714D12P32.....	109
UTGX714D12S.....	109
UTGX714D12S32.....	109
UTGX714D15P.....	112
UTGX714D15P32.....	112
UTGX714D15S.....	112
UTGX714D15S32.....	112
UTGX714D18P.....	116
UTGX714D18P32.....	116
UTGX714D18S.....	116
UTGX714D18S32.....	116

UTGX714D19P	120
UTGX714D19P32	120
UTGX714D19S	120
UTGX714D19S32	120
UTGX714D5P	46
UTGX714D5P32	46
UTGX714D5S	46
UTGX714D5S32	46
UTGX714D7P	65
UTGX714D7P32	65
UTGX714D7S	65
UTGX714D7S32	65
UTGX714E12P	109
UTGX714E12S	109
UTGX714E15P	112
UTGX714E15S	112
UTGX714E18P	116
UTGX714E18S	116
UTGX714E19P	120
UTGX714E19S	120
UTGX714E5P	46
UTGX714E5S	46
UTGX714E7P	65
UTGX714E7S	65

Plug only

UTGX6100W2P	36
UTGX6100W2S	36
UTGX6103P	18
UTGX6103S	18
UTGX6103W3P	50
UTGX6103W3S	50
UTGX6104P	41
UTGX6104S	41
UTGX6106P	56
UTGX6106S	56
UTGX610E6P	56
UTGX610E6S	56
UTGX610E7P	70
UTGX610E7S	70
UTGX610E98P	61
UTGX610E98S	61
UTGX61210P	89
UTGX61210S	89
UTGX6124P	31
UTGX6124S	31
UTGX6128P	82
UTGX6128S	82
UTGX612E10P	89
UTGX612E10S	89
UTGX612E14P	108
UTGX612E14S	108
UTGX612E2P	14
UTGX612E2S	14
UTGX612E3P	30
UTGX612E3S	30
UTGX612E4P	31
UTGX612E4S	31
UTGX612E8P	79
UTGX612E8S	79
UTGX61412P	83
UTGX61412S	83
UTGX61419P	120
UTGX61419S	120
UTGX6142G1P	24
UTGX6142G1S	24

UTGX6147P	65
UTGX6147S	65
UTGX6148P	83
UTGX6148S	83
UTGX61492P	103
UTGX61492S	103
UTGX614E12P	109
UTGX614E12S	109
UTGX614E15P	112
UTGX614E15S	112
UTGX614E18P	116
UTGX614E18S	116
UTGX614E19P	108
UTGX614E19S	108
UTGX614E5P	112
UTGX614E5S	112
UTGX614E7P	65
UTGX614E7S	65

Plug with cable gland

UTGX6JC102W2P	36
UTGX6JC102W2S	36
UTGX6JC103P	18
UTGX6JC103S	18
UTGX6JC103W3P	50
UTGX6JC103W3S	50
UTGX6JC104P	41
UTGX6JC104S	41
UTGX6JC106P	56
UTGX6JC106S	56
UTGX6JC10E6P	56
UTGX6JC10E6S	56
UTGX6JC10E7P	70
UTGX6JC10E7S	70
UTGX6JC10E98P	61
UTGX6JC10E98S	61
UTGX6JC1210P	89
UTGX6JC1210S	89
UTGX6JC124P	31
UTGX6JC124PSCR	31
UTGX6JC124S	31
UTGX6JC124SSCR	31
UTGX6JC128P	74
UTGX6JC128S	74
UTGX6JC12E10P	89
UTGX6JC12E10S	89
UTGX6JC12E14P	89
UTGX6JC12E14S	89
UTGX6JC12E2P	14
UTGX6JC12E2S	14
UTGX6JC12E3P	27
UTGX6JC12E3S	27
UTGX6JC12E4P	31
UTGX6JC12E4S	31
UTGX6JC12E8P	79
UTGX6JC12E8S	79
UTGX6JC1412P	83
UTGX6JC1412S	83
UTGX6JC1419P	108
UTGX6JC1419S	108
UTGX6JC142G1P	24
UTGX6JC142G1S	24
UTGX6JC147P	65
UTGX6JC147PSCR	65
UTGX6JC147S	65

Souriau UTGX series

Part number index

UTGX6JC147SSCR	65
UTGX6JC148P	92
UTGX6JC148S	92
UTGX6JC1492P	103
UTGX6JC1492S	103
UTGX6JC14E12P	99
UTGX6JC14E12S	99
UTGX6JC14E15P	41
UTGX6JC14E15S	41
UTGX6JC14E18P	116
UTGX6JC14E18S	116
UTGX6JC14E19P	108
UTGX6JC14E19S	108
UTGX6JC14E5P	41
UTGX6JC14E5S	41
UTGX6JC14E7P	65
UTGX6JC14E7S	65

Square flange receptacle only

UTGX0102W2P	36
UTGX0102W2S	36
UTGX0103P	18
UTGX0103S	18
UTGX0103W3P	50
UTGX0103W3S	50
UTGX0104P	41
UTGX0104S	41
UTGX0106P	56
UTGX0106S	56
UTGX010D6P	56
UTGX010D6S	56
UTGX010D7P	70
UTGX010D7S	70
UTGX010D98P	61
UTGX010D98S	61
UTGX010E6P	56
UTGX010E6S	56
UTGX010E7P	70
UTGX010E7S	70
UTGX010E98P	61
UTGX010E98S	61
UTGX01210P	89
UTGX01210S	89
UTGX0128P	74
UTGX0128S	74
UTGX012D10P	89
UTGX012D10S	89
UTGX012D14P	108
UTGX012D14S	108
UTGX012D2P	14
UTGX012D2S	14
UTGX012D3P	27
UTGX012D3S	27
UTGX012D4P	31
UTGX012D4S	31
UTGX012D8P	79
UTGX012D8S	79
UTGX012E10P	89
UTGX012E10S	89
UTGX012E14P	108
UTGX012E14S	108
UTGX012E2P	14
UTGX012E2S	14
UTGX012E3P	27
UTGX012E3S	27

UTGX012E4P	31
UTGX012E4S	31
UTGX012E8P	79
UTGX012E8S	79
UTGX01412P	94
UTGX01412S	94
UTGX01419P	120
UTGX01419S	120
UTGX0142G1P	24
UTGX0142G1S	24
UTGX0147P	65
UTGX0147S	65
UTGX0148P	83
UTGX0148S	83
UTGX01492P	103
UTGX01492S	103
UTGX014D12P	109
UTGX014D12S	109
UTGX014D15P	112
UTGX014D15S	112
UTGX014D18P	116
UTGX014D18S	116
UTGX014D19P	120
UTGX014D19S	120
UTGX014D5P	46
UTGX014D5S	46
UTGX014D7P	65
UTGX014D7S	65
UTGX014E12P	99
UTGX014E12S	99
UTGX014E15P	112
UTGX014E15S	112
UTGX014E18P	116
UTGX014E18S	116
UTGX014E19P	120
UTGX014E19S	120
UTGX014E5P	46
UTGX014E5S	46
UTGX014E7P	65
UTGX014E7S	65

Square flange receptacle with cable gland

UTGX0JC102W2P	36
UTGX0JC102W2S	36
UTGX0JC103P	18
UTGX0JC103S	18
UTGX0JC104P	41
UTGX0JC104S	41
UTGX0JC106P	56
UTGX0JC106S	56
UTGX0JC1210P	89
UTGX0JC1210S	89
UTGX0JC124P	31
UTGX0JC124S	31
UTGX0JC128P	74
UTGX0JC128S	74
UTGX0JC1412P	94
UTGX0JC1412S	94
UTGX0JC1419P	120
UTGX0JC1419S	120
UTGX0JC142G1P	23
UTGX0JC142G1S	23
UTGX0JC147P	65
UTGX0JC147S	65
UTGX0JC148P	83

UTGX0JC148S	83
UTGX0JC1492P	103
UTGX0JC1492S	103

Accessories

Color coding rings

UTGX610CCRG	20
UTGX610CCRR	20
UTGX610CCRY	20
UTGX612CCRG	16
UTGX612CCRR	16
UTGX612CCRY	16
UTGX614CCRG	25
UTGX614CCRR	25
UTGX614CCRY	25
UTGX710CCRG	25
UTGX710CCRR	25
UTGX710CCRY	25
UTGX712CCRG	16
UTGX712CCRR	16
UTGX712CCRY	16
UTGX714CCRG	25
UTGX714CCRR	25
UTGX714CCRY	25

Discrimination pin

SMSPKE0	152
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Gasket

UTFD12B	38
UTFD13B	14
UTFD14B	25

Plastic protective cap

85005586A	20
85005587A	16
85005588A	25
85005595	20
85005596	16
85005597	25

Sealing caps

UTGX10DCG	20
UTGS10DCGR	20
UTGS12DCG	16
UTGX12DCGE	16
UTGX12DCGR	16
UTGX14DCG	25
UTGX14DCGE	48
UTGX14DCGR	25
UTGX610DCG	20
UTGX612DCG	16
UTGX614DCG	25
UTS614DCG133	48

Contacts

Crimp contacts

82911456A	128
82911456K	128
82911457NA	128
82911457NK	128
82911458A	128
82911458K	128
82911459NA	128

82911459NK	128
82911460A	128
82911460K	128
82911461NA	128
82911461NK	128
82911462A	128
82911462K	128
82911463NA	128
82911463NK	128
82911464A	128
82911464K	128
82911465NA	128
82911465NK	128
82911466A	128
82911466K	128
82911467NA	128
82911467NK	128
82913600A	128
82913601A	128
82913602A	128
82913603A	128
82913604A	128
82913605A	128
82913606A	128
82913607A	128
82913608A	128
82913609A	128
RC14M30GE1K	128
RC14M30J	128
RC14M30K	128
RC16M23GE1K	128
RC16M23J	128
RC16M23K	128
RC18W3K	128
RC20M12GE7K	128
RC20M12J	128
RC20M12K	128
RC20M13GE7K	128
RC20M13J	128
RC20M13K	128
RC20W3K	128
RC24M9GE7K	128
RC24M9J	128
RC24M9K	128
RC24W3K	128
RC28M1GE7K	128
RC28M1J	128
RC28M1K	128
RM14M30GE1K	128
RM14M30J	128
RM14M30K	128
RM16M23GE1K	128
RM16M23J	128
RM16M23K	128
RM18W3K	128
RM20M12GE1K	128
RM20M12J	128
RM20M12K	128
RM20M13J	128
RM20M13K	128
RM20W3K	128
RM24M9GE1K	128
RM24M9J	128
RM24M9K	128
RM24W3K	128
RM28M1GE1K	128
RM28M1J	128
RM28M1K	128
SC14M1S18	128
SC14M1S31	128

SC14M1TK6	128
SC14ML1S18	128
SC14ML1S31	128
SC14ML1TK6	128
SC16M11S18	128
SC16M11S31	128
SC16M11TK6	128
SC16M1S18	128
SC16M1S31	128
SC16M1TK6	128
SC16ML11S18	128
SC16ML11S31	128
SC16ML11TK6	128
SC16ML1S18	128
SC16ML1S31	128
SC16ML1TK6	128
SC20M1S18	128
SC20M1S31	128
SC20M1TK6	128
SC20ML1S18	128
SC20ML1S31	128
SC20ML1TK6	128
SC20W3S26	128
SC20W3TK6	128
SC20WL3S25	128
SC20WL3TK6	128
SC24M1S18	128
SC24M1S31	128
SC24M1TK6	128
SC24ML1S18	128
SC24ML1S31	128
SC24ML1TK6	128
SC24W3S25	128
SC24W3S26	128
SC24W3TK6	128
SC24WL3TK6	128
SC24WL3TKS25	128
SM14M1S18	128
SM14M1S31	128
SM14M1TK6	128
SM14ML1S18	128
SM14ML1S31	128
SM14ML1TK6	128
SM16M11S18	128
SM16M11S31	128
SM16M11TK6	128
SM16M1S18	128
SM16M1S31	128
SM16M1TK6	128
SM16ML11S18	128
SM16ML11S31	128
SM16ML11TK6	128
SM16ML1S18	128
SM16ML1S31	128
SM16ML1TK6	128
SM20M1S18	128
SM20M1S31	128
SM20M1TK6	128
SM20ML1S18	128
SM20ML1S31	128
SM20ML1TK6	128
SM20W3S26	128
SM20W3TK6	128
SM20WL3S26	128
SM20WL3TK6	128
SM24M1S18	128
SM24M1S31	128
SM24M1TK6	128
SM24ML1S18	128
SM24ML1S31	128

SM24ML1TK6	128
SM24W3S26	128
SM24W3S26	128
SM24W3TK6	128
SM24WL3TK6	128
SM24WL3TKS26	128

Coaxial contacts

RCDX6016D28	131
RCDX6018D28	131
RCDX6024D28	131
RCDX6026D28	131
RCDX6032D28	131
RCDX6034D28	131
RCDX6036D28	131
RCDX6052D28	131
RCDX60xxD28	130
RCDXK1D28	131
RMDX6018D28	131
RMDX6024D28	131
RMDX6026D28	131
RMDX6032D28	131
RMDX6034D28	131
RMDX6036D28	131
RMDX6046D28	131
RMDX6050D28	131
RMDX6052D28	131
RMDX60xxD28	130
RMDXK10D28	131

Fiber optic contacts

RCPOF1000B	133
RMPOF1000	133

PCB contacts

82911684NAPC	133
82911684NPC	133
82911685NAPC	133
82911685NPC	133
RC20M12E83K	133
RC20M12E84K	133
RC20M12E8K	133
RCW5016K	133
RCW50A7K	133
RM20M12E83K	133
RM20M12E8K	133
RMW5016K	133
RMW50A7K	133

Tooling

51060210924	137
51060210936	137
M317	137
MH860	137
RX2025GE1	138
RX2031J	138
RX20D44	138
S16RCM14	137
S16RCM16	137
S16SCM20	137
S16SCML1	137
S16SCML11	137
S20RCM	137
S20SCM20	137
SHANDLES	137
VGE10077A	137
VGE10078A	137

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