

Connectors

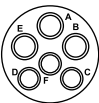
103W3 (Shell size 10, 3x#20, 3x16)



Connector part number

UTGX 103W3

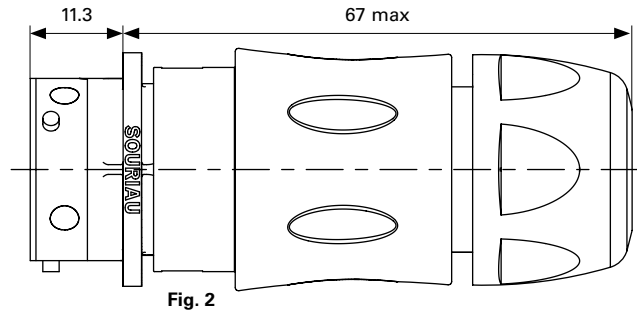
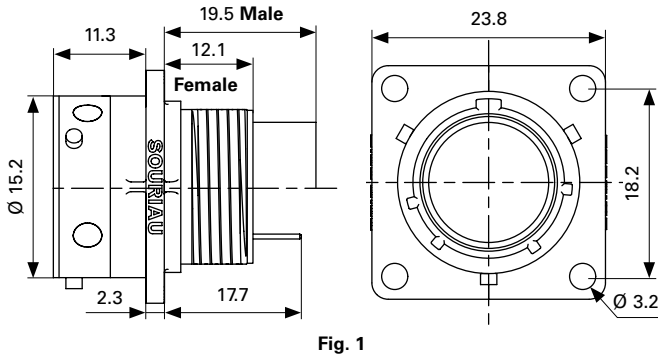
6 contacts
13A/500V per UL1977 with
AWG16 wire
7.5A/250V per UL1977 with
AWG20 wire
(qualification pending)



Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 56	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
		Cable gland (Fig. 5)	UTGX6JC103W3P	UTGX6JC103W3S
PCB contacts supplied separately see page 56	Jam nut receptacle	Without (Fig. 6)	UTGX7103W3P	UTGX7103W3S
	Jam nut receptacle with stand off and without hold down clip	Without (Fig. 7)	UTGX7103W3P	UTGX7103W3S

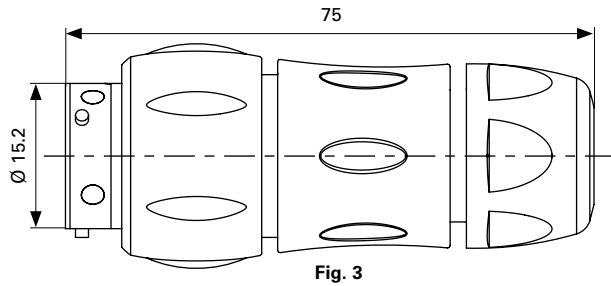
Dimensions in mm (For mated connector lengths see page 145)

Square flange receptacle - UTGX0 and UTGX0JC



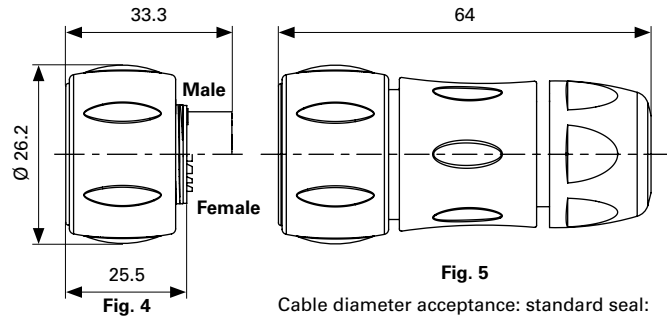
Cable diameter acceptance: standard seal:
from 2.5 mm to 8 mm, reduced seal: from 1.5 mm to 5 mm

Free hanging - UTGX1JC



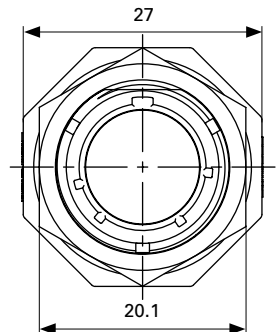
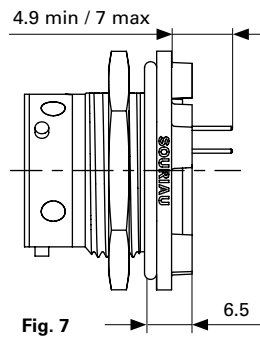
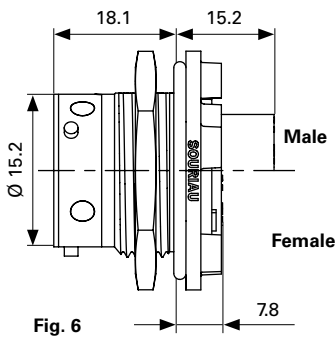
Cable diameter acceptance: standard seal:
from 2.5 mm to 8 mm, reduced seal: from 1.5 mm to 5 mm

Plug - UTGX6 & UTGX6JC



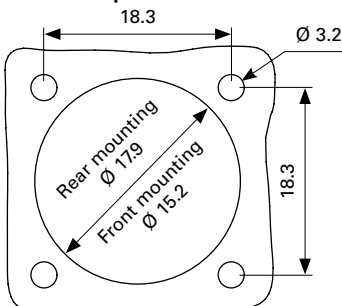
Cable diameter acceptance: standard seal:
from 2.5 mm to 8 mm, reduced seal: from 1.5 mm to 5 mm

Jam nut receptacle UTGX7

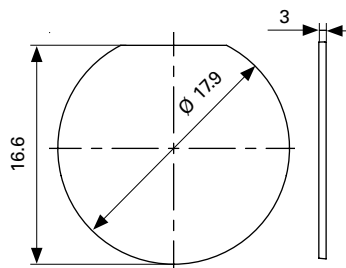


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Connectors

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

Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTGX10DCG
IP68/69K - Metal terminal	UTGX10DCGR

Plug sealing cap



Description	Part number
IP68/69K	UTGX610DCG

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	UTGX710CCRG	UTGX610CCRG
Y for Yellow	UTGX710CCRY	UTGX610CCRY
R for Red	UTGX710CCRR	UTGX610CCRR

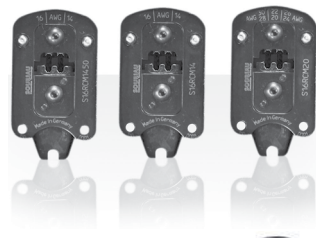
Tooling

Tooling



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

Crimp tooling (without Shandles)



Handle + Head = Complete set

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*

(1): Example of plating, for other plating options see page 129

(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

Connectors

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

Contacts #16

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	30-26	0.48-0.08	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	0.13-0.25	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.58
		20-20	0.32-0.52	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		20-20	0.32-0.52	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	0.52-1.48	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	1.48-2.48	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	—	0.90-1.58
		20-20	0.32-0.52	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	—	1.20-2.10
		18-16	0.80-1.48	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	—	3.20
		18-16	0.80-1.48	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	—	3.00
		14	2.48	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	—	3.20
PCB	Machined ⁽³⁾	—		RM20M12E83K ⁽¹⁾	RC20M12E84K ⁽¹⁾		—
Coaxial	Cable multipiece	see pages 133 to 134		RMDXK10D28	RCDXK1D28	—	—
	Cable monocrimp			RMDX60xxD28	RCDX60xxD28	—	—
	Twisted pair multipiece			RMDXK10D28 + yorx090	RCDXK1D28 + yorx090	—	—
	Twisted pair monocrimp			RMDX60xxD28	RCDX60xxD28	—	—
Fiber optic	POF contacts (Plastic Optical Fiber)	—		RMPOF1000	RCPOF1000B	—	—

(1): Example of plating, for other plating see page 129

(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 136 or 137

Contacts #20

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	26-24	0.13-0.25	RM24W3K	RC24W3K	0.80	1.58
		20-20	0.32-0.52	RM20W3K	RC20W3K	1.15	1.80
		20-18	0.52-0.80	RM18W3K	RC18W3K	1.30	2.10
	Stamped & Formed reeled contacts See note ⁽²⁾ for loose piece	26-24	0.13-0.25	SM24W3TK6 ⁽¹⁾⁽²⁾	SC24W3TK6 ⁽¹⁾⁽²⁾	—	0.90-1.58
		26-24	0.13-0.25	SM24W3S26 ⁽¹⁾⁽²⁾	SC24W3S25 ⁽¹⁾⁽²⁾	—	0.90-1.58
		20-20	0.32-0.52	SM20W3TK6 ⁽¹⁾⁽²⁾	SC20W3TK6 ⁽¹⁾⁽²⁾	—	1.20-2.10
		20-20	0.32-0.52	SM20W3S26 ⁽¹⁾⁽²⁾	SC20W3S25 ⁽¹⁾⁽²⁾	—	1.20-2.10

(1): Example of plating, for other plating see page 129

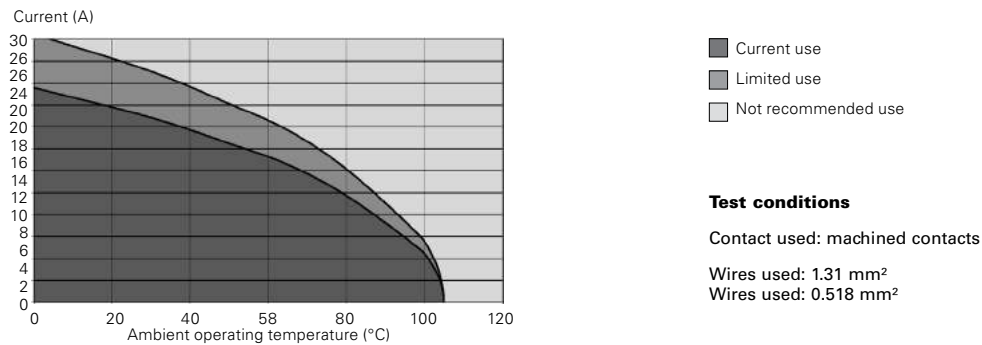
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20W3TK6 becomes SM20WL3TK6

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 temperture elevation: 50°C

*qualification pending

UTGX 103W3 derating curves



Derating curves based on continuous current application.