

Connectors

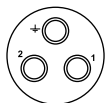
103 (Shell size 10, 2 + ground, 3x#16)



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 24	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 24	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 (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	HAUTGX103PST1M	HAUTGX103SST1M
Right angle ending	Plug	1.5	H05 VV - F 3x1.5	HAUTGX103PRA1M	HAUTGX103SRA1M

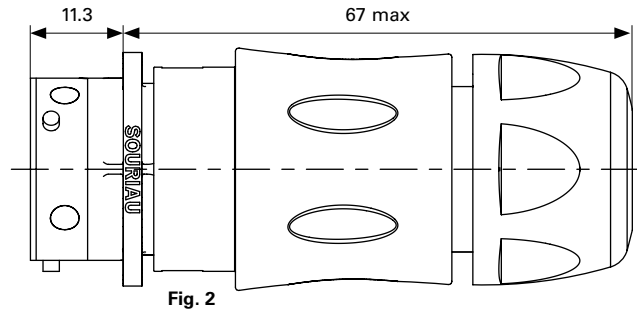
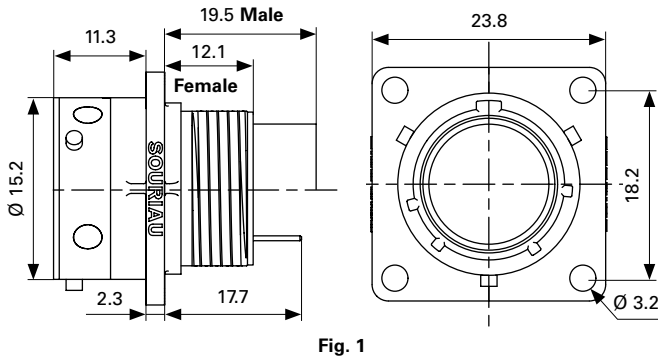
(1) Other cable available on demand

* Other lengths available on demand

Note: Overmoulded cable assembly dimensions available page 145

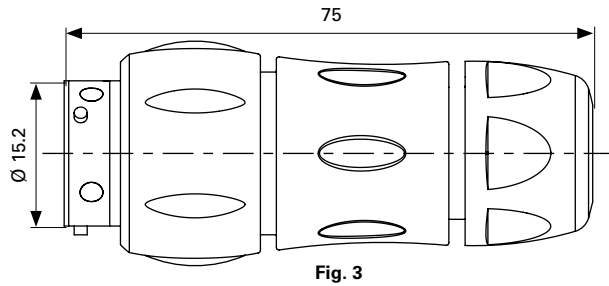
Dimensions in mm (For mated connector lengths see page 145)

Square flange receptacle - UTGX0 and UTGX0JC



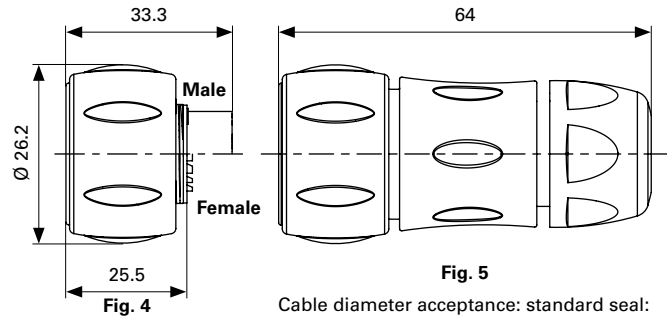
Cable diameter acceptance: standard seal:
from 2.5 mm to 8 mm, reduced seal: from 1.5 mm to 5 mm

Free hanging - UTGX1JC



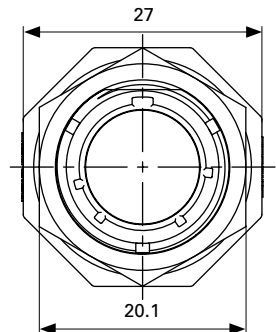
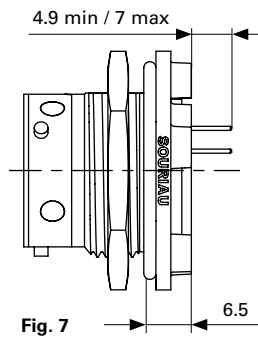
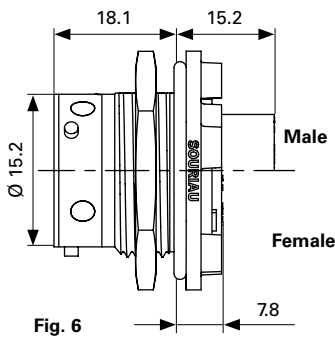
Cable diameter acceptance: standard seal:
from 2.5 mm to 8 mm, reduced seal: from 1.5 mm to 5 mm

Plug - UTGX6 & UTGX6JC



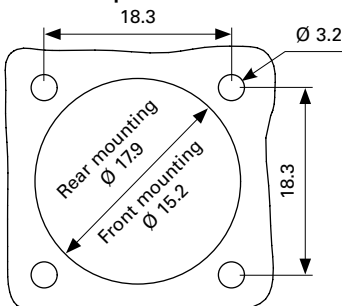
Cable diameter acceptance: standard seal:
from 2.5 mm to 8 mm, reduced seal: from 1.5 mm to 5 mm

Jam nut receptacle UTGX7

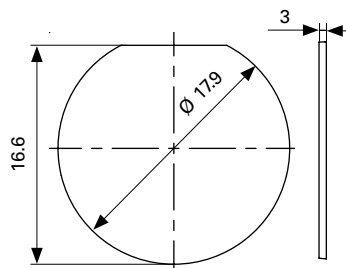


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Connectors

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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

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

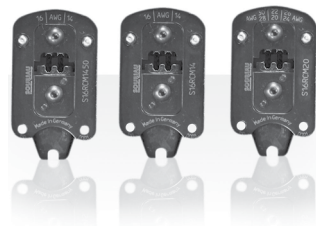
Tooling

Tooling



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

Crimp tooling (without Shandles)



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 129

* 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

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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

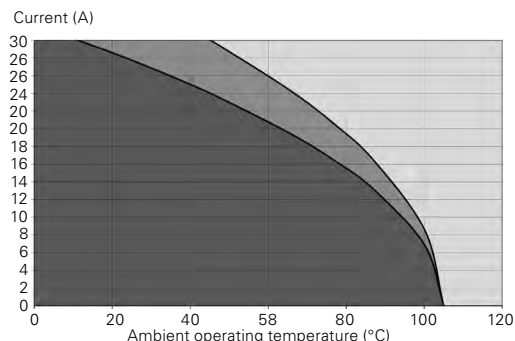
(3): For dimensions see page 136

Electrical characteristics

UL	CSA	IEC
10A 500V with AWG16 wire UL94 V-0	7A 500V with AWG16 wire UL94 V-0	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



- 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.