

Connectors

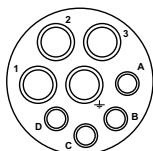
148 (Shell size 14, 4x#16, 4x#12)



Connector part number

UTGX 148

8 contacts
25A 600V per UL1977 with
AWG14 wire
5A 600V per UL1977
AWG20 wire
(qualification pending)



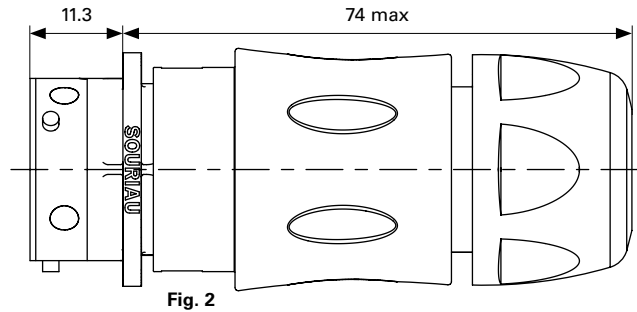
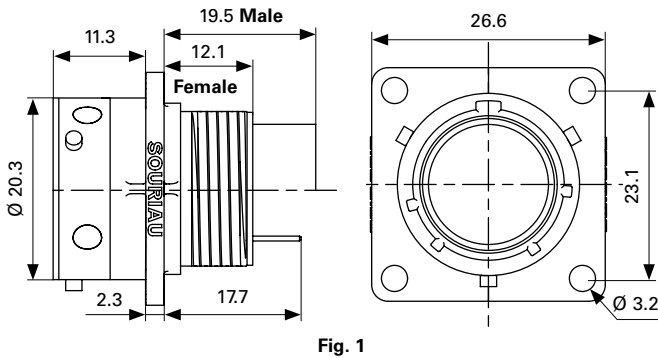
Contact type	Connector type	Backshell	Part number	
			Male insert	Female insert
Crimp contacts supplied separately see page 89	Square flange receptacle	Without (Fig. 1)	UTGX0148P	UTGX0148S
	Square flange receptacle	Cable gland (Fig. 2)	UTGX0JC148P	UTGX0JC148S
	Free hanging receptacle	Cable gland (Fig. 3)	UTGX1JC148P	UTGX1JC148S
	Plug	Without (Fig. 4)	UTGX6148P	UTGX6148S
		Cable gland (Fig. 5)	UTGX6JC148P	UTGX6JC148S
	Jam nut receptacle	Without (Fig. 6)	UTGX7148P	UTGX7148S

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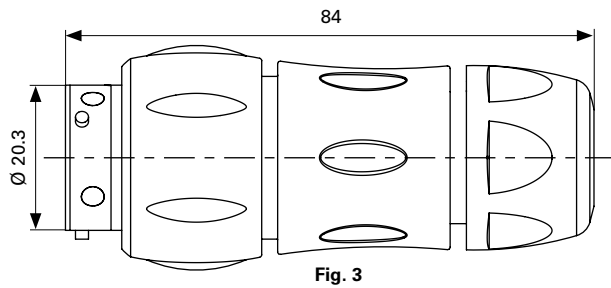
Dimensions in mm (For mated connector lengths see page 145)

Square flange receptacle - UTGX0 and UTGX0JC



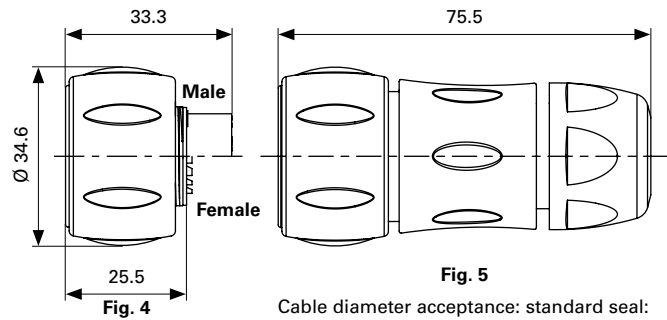
Cable diameter acceptance: standard seal:
from 7 mm to 14 mm, reduced seal: from 5 mm to 12 mm

Free hanging - UTGX1JC



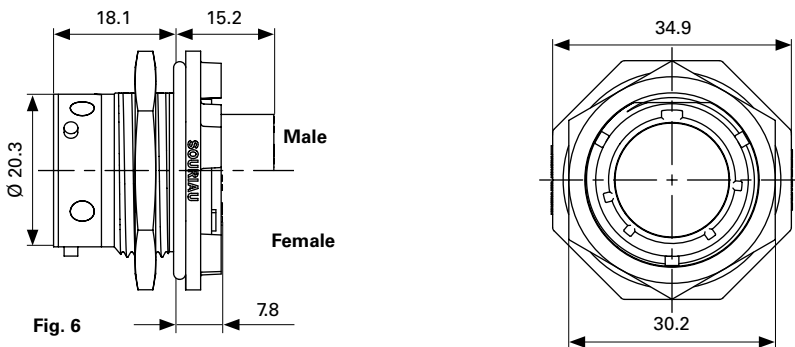
Cable diameter acceptance: standard seal:
from 7 mm to 14 mm, reduced seal: from 5 mm to 12 mm

Plug - UTGX6 & UTGX6JC



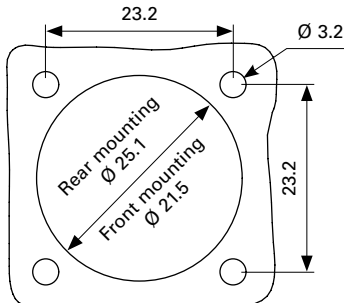
Cable diameter acceptance: standard seal:
from 7 mm to 14 mm,
reduced seal: from 5 mm to 12 mm

Jam nut receptacle UTGX7

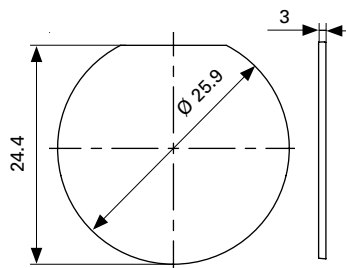


Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



Accessories

Jam nut & free hanging receptacle sealing caps



Description	Part number
IP68/69K	UTGX14DCG
IP68/69K - Metal terminal	UTGX14DCGR

Square flange sealing cap



Description	Part number
IP68/69K - Metal terminal	UTGX14DCGE

Plug sealing cap



Description	Part number
IP68/69K	UTS614DCG133

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	UTGX714CCRG	UTGX614CCRG
Y for Yellow	UTGX714CCRY	UTGX614CCRY
R for Red	UTGX714CCRR	UTGX614CCRR

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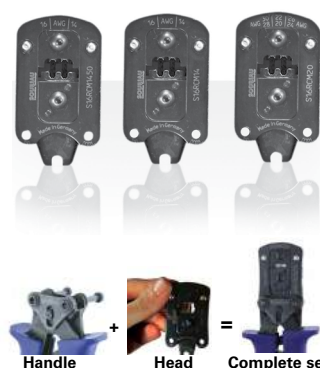
Tooling

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

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

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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
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	—	—

(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

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	20	—	82911457NA ⁽¹⁾	82911456A ⁽¹⁾	0.7	4.90
		20	—	82911459NA ⁽¹⁾	82911458A ⁽¹⁾	1.12	
		18	—	82911461NA ⁽¹⁾	82911460A ⁽¹⁾	1.42	
		16	—	82911463NA _v	82911462A ⁽¹⁾	1.72	
		14	—	82911465NA ⁽¹⁾	82911464A ⁽¹⁾	2.20	
		12	—	82911467NA ⁽¹⁾	82911466A ⁽¹⁾	2.82	

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

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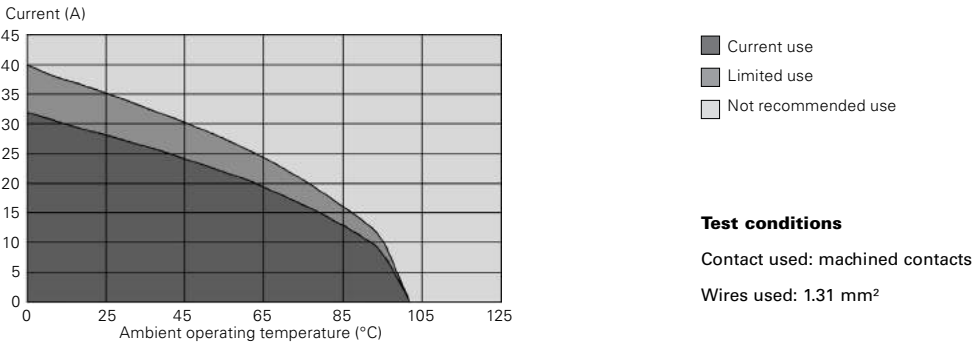
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Electrical characteristics

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

* qualification pending

UTGX 148 derating curves



Derating curves based on continuous current application.