

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



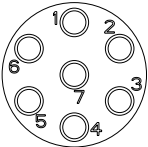
Connector part number

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 71	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
		Cable gland (Fig. 5)	UTGX6JC147P	UTGX6JC147S
Screw contacts loaded	Jam nut receptacle	Without (Fig. 6)	UTGX7147P	UTGX7147S
	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 71	Square flange receptacle	Without (Fig. 1)	UTGX0147P	UTGX0147S
Handsolder electrical contacts loaded see page 71	Square flange receptacle	Without (Fig. 1)	UTGX014E7P	UTGX014E7S
	Plug	Without (Fig. 4)	UTGX614E7P	UTGX614E7S
		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 (mm ²)	Harmonized cable part number ⁽¹⁾	Part number (length: 1 m.)*	
				Male plug	Female plug
Straight ending	Plug	1.5	H05 VV - F 7x1.5	HAUTGX147PST1M	HAUTGX147SST1M
				HAUTGX14E7PRA1M	HAUTGX14E7SRA1M
Right angle ending	Plug	1.5	H05 VV - F 7x1.5	HAUTGX147PRA1M	HAUTGX147SRA1M
				HAUTGX14E7PRA1M	HAUTGX14E7SRA1M

(1) Other cable available on demand

* Other lengths available on demand

Note: Overmoulded cable assembly dimensions available page 145

Connectors

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

Square flange receptacle - UTGX0 and UTGX0JC

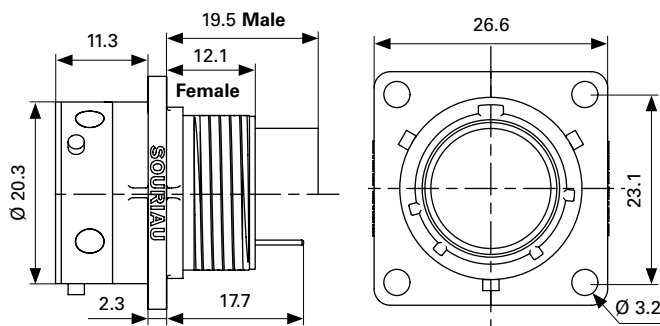


Fig. 1

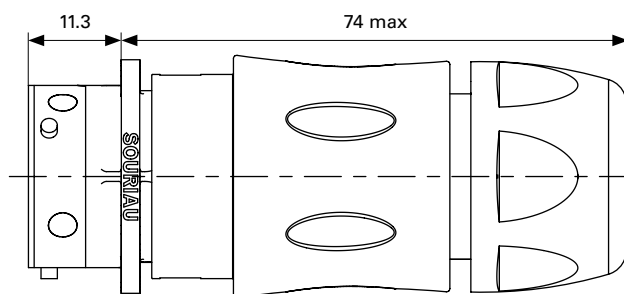


Fig. 2

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

Free hanging - UTGX1JC

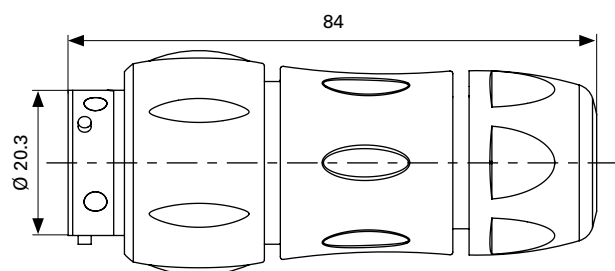


Fig. 3

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

Plug - UTGX6 & UTGX6JC

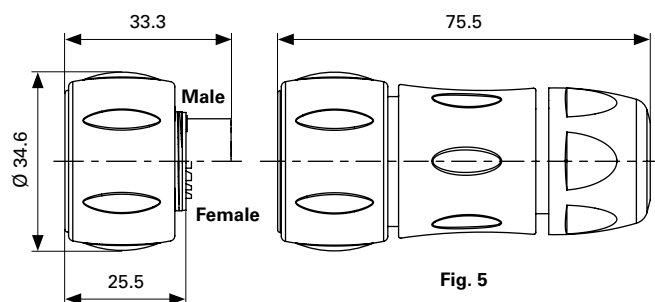


Fig. 4

Fig. 5

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

Jam nut receptacle UTGX7

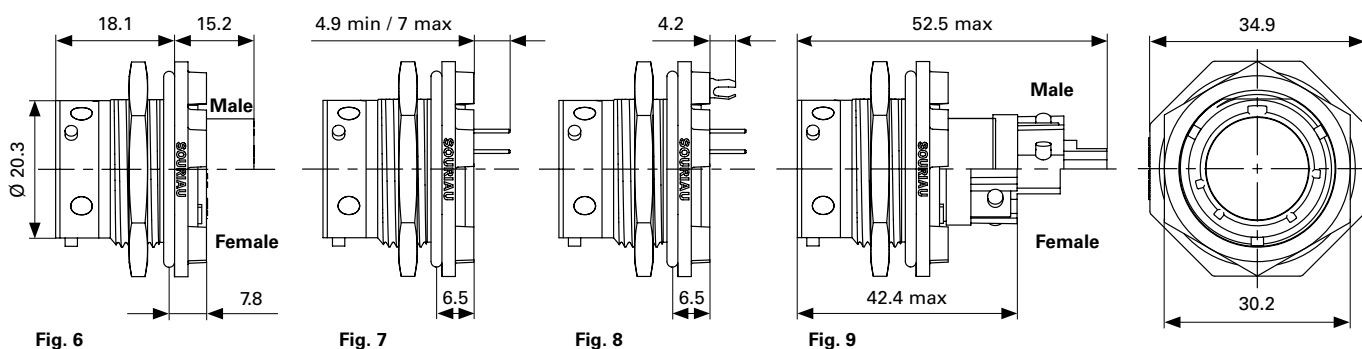


Fig. 6

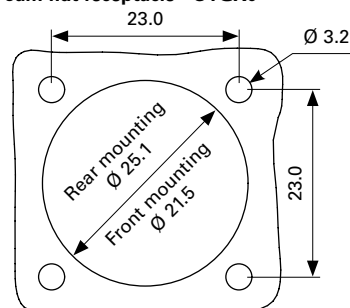
Fig. 7

Fig. 8

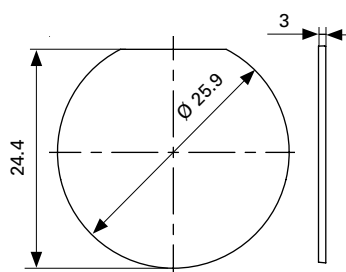
Fig. 9

Panel cut out

Jam nut receptacle - UTGX0



Jam nut receptacle - UTGX7



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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	UTGX714CCR	UTGX614CCR

Connectors

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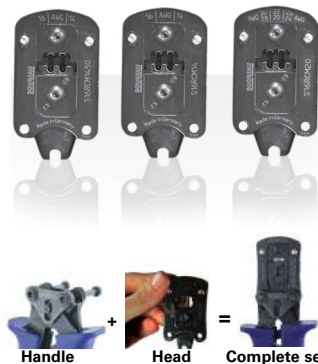
Tooling

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

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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	—	—
Handsolder	Loaded in the connector	14-18	2.48-0.80	—	—	—	—

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

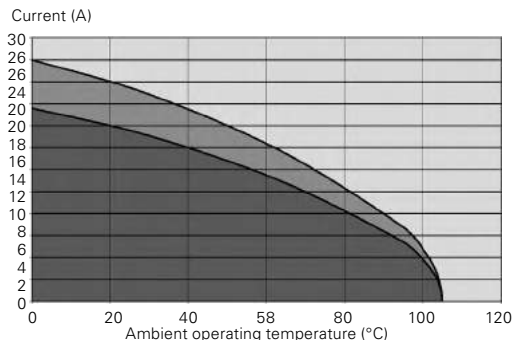
(2): Loose piece contact available by adding "L" after the "M" for the contact size and the plating. Example: SM20M1TK6 becomes SM20ML1TK6

(3): for dimensions see pages 136 or 137

Electrical characteristics

UL	CSA	IEC
UTGX 147		
10A 500V with AWG16 wire UL94 V-0	7A 500V with AWG16 wire UL94 V-0	7A 150V 1.5kV 3
UTGX 14E7/14D7		
12A 600V with AWG16 wire UL94 HB	12A 600V with AWG16 wire UL94 HB	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.