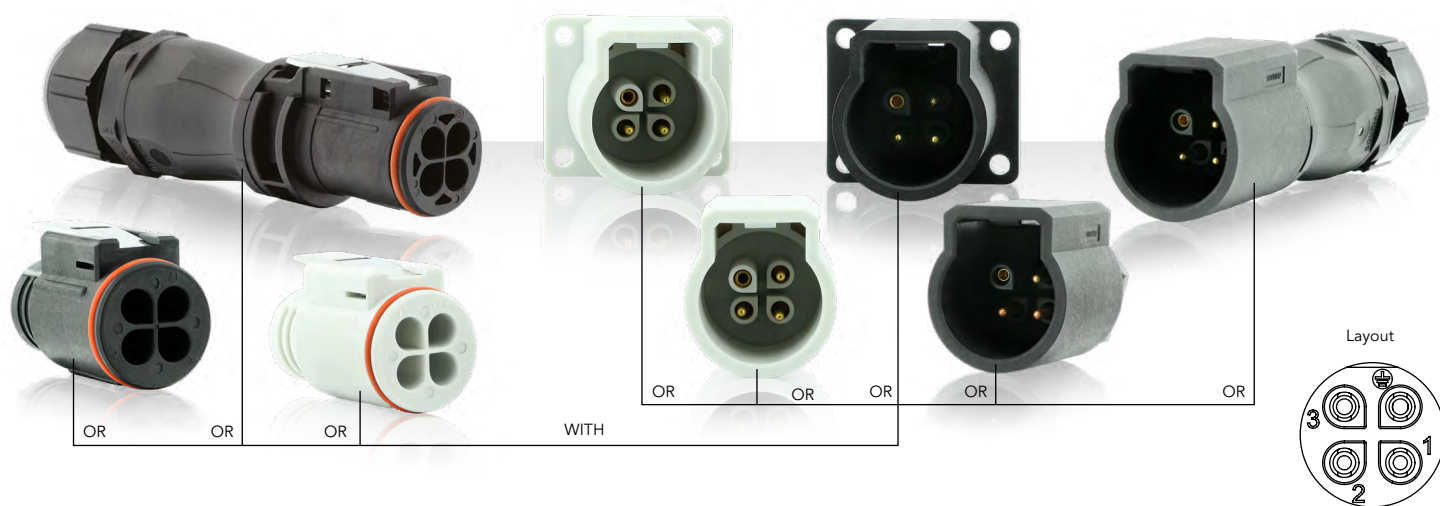


103G1 (shell size 10, 3 + ground, 4x#16)



Connector part number

Plugs and receptacles have to be equipped with both contact genders. Ground lines will never be equipped with the same contacts as the neutral and phase.

Contact type	Connector type	Part number			
		Male insert		Female insert	
		Black color	Grey color	Black color	Grey color
Crimp or PCB contacts supplied separately see page 21	Square flange receptacle	UTL0103G1P	UTL0103G1P03	UTL0103G1S	UTL0103G1S03
	Jam nut receptacle	UTL7103G1P	UTL7103G1P03	UTL7103G1S	UTL7103G1S03
	In line receptacle without backshell	UTL1103G1P	UTL1103G1P03	UTL1103G1S	UTL1103G1S03
	In line receptacle with backshell	UTL1JC103G1P	-	UTL1JC103G1S	-
	Plug for panel mounting	UTL5103G1P	-	UTL5103G1S	-
	Plug for overmoulding	UTL6103G1P	UTL6103G1P03	UTL6103G1S	UTL6103G1S03
	Plug threaded without backshell and O-ring	UTL6TH103G1P	-	UTL6TH103G1S	-
	Plug with backshell	UTL6JC103G1P	-	UTL6JC103G1S	-

Standard delivered packaging: individual bag. For bulk delivery of 100 pcs please add a "B" after the P or S (connector gender) and before the potential "03" digits.

Overmoulded cable assembly part number

Layout	Description	Connector and Overmould type		Length*	
		Connector	Overmould type	1m	2m
103G1	In line overmoulded cable assembly	Male In line receptacle	Straight	HAUTL13G1PS1M	HAUTL13G1PS2M
		Male In line receptacle	Right angle	HAUTL13G1PR1M	HAUTL13G1PR2M
		Female In line receptacle	Straight	HAUTL13G1SS1M	HAUTL13G1SS2M
		Female In line receptacle	Right angle	HAUTL13G1SR1M	HAUTL13G1SR2M
	Plug overmoulded cable assembly	Male plug	Straight	HAUTL63G1PS1M	HAUTL63G1PS2M
		Male plug	Right angle	HAUTL63G1PR1M	HAUTL63G1PR2M
		Female plug	Straight	HAUTL63G1SS1M	HAUTL63G1SS2M
		Female plug	Right angle	HAUTL63G1SR1M	HAUTL63G1SR2M

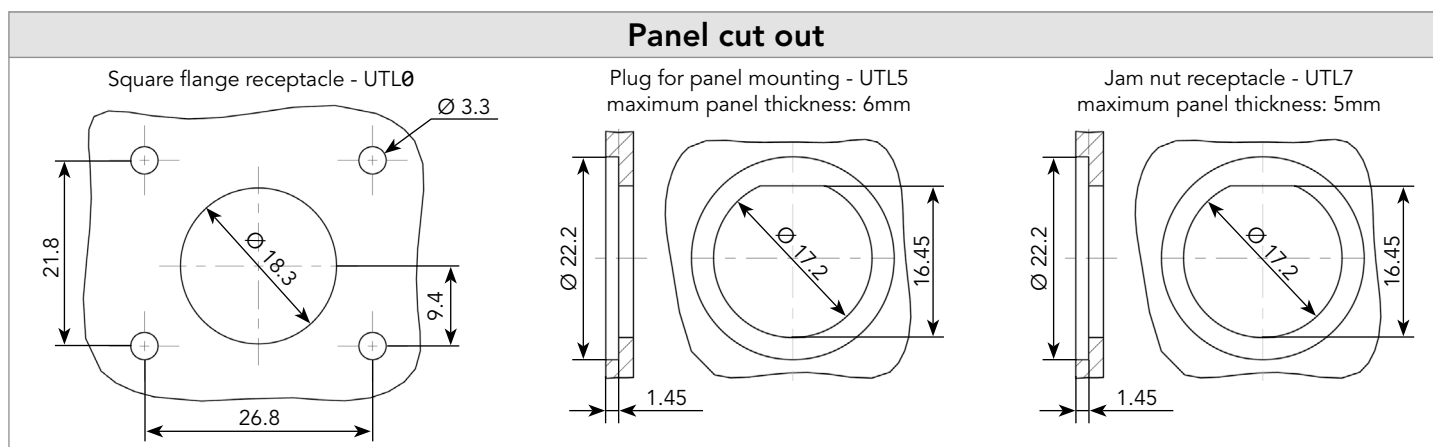
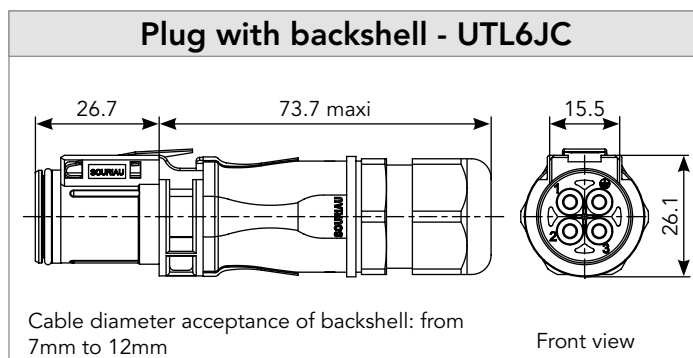
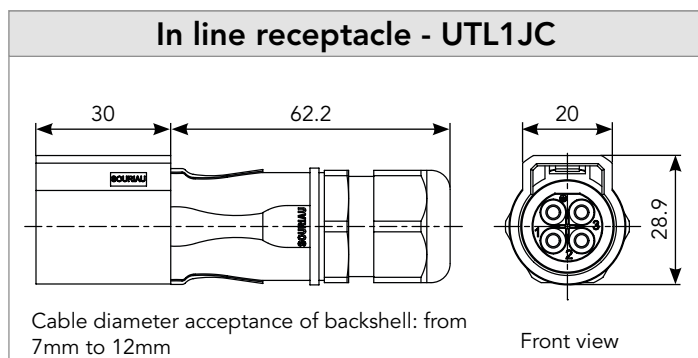
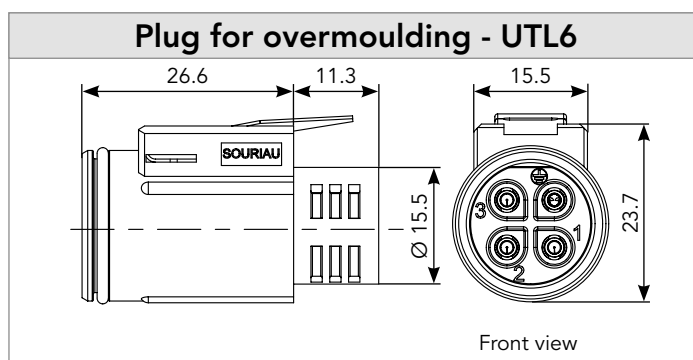
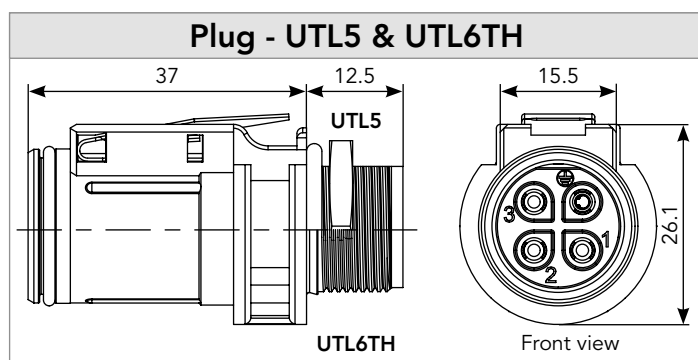
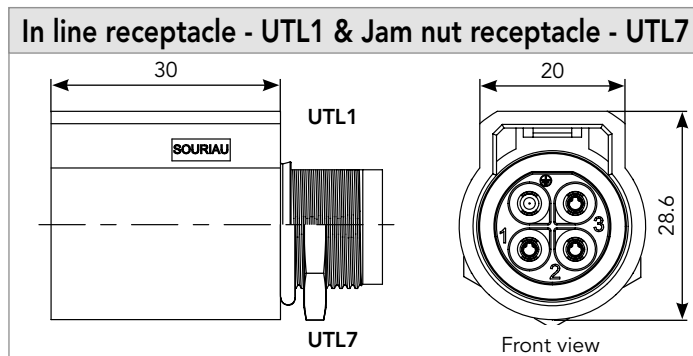
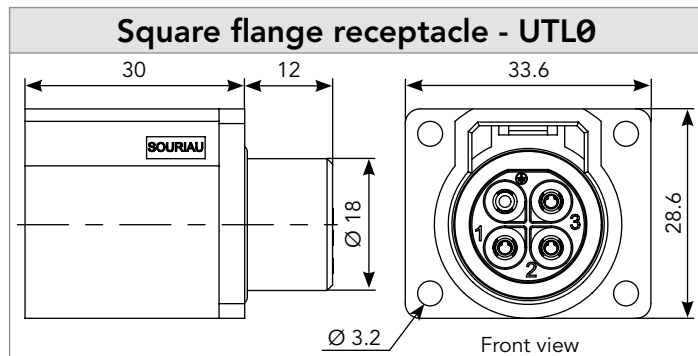
* : Other lengths or specific design requirement please consult us

Evaluation kit

Evaluation kit is composed of 1 connector, contacts and 1 heat shrink boot for a quick and easy assembly production. For more information please see page 67.

103G1 (shell size 10, 3 + ground, 4x#16)

Dimensions (for mated connector lengths see page 65)



Note: all dimensions are in mm and for information only

103G1 (shell size 10, 3 + ground, 4x#16)

Accessories and tooling

Dustcap for plug

IP67



Part number
UTL610DCG

Dustcap for receptacle

IP67



Part number
UTL10DCG

Handle (without head)



Part number
SHANGLES

Tool kit



Part number
TOOLKIT

Dustcap for male receptacle

IP68/69K



Part number
UTL103G1PDCG68

Dustcap for female receptacle

IP68/69K



Part number
UTL103G1SDCG68

Extraction tool #16



Part number
RX2025GE1

Insertion tool #16



Part number
RTM205

Cable gland backshell*



Part number
UTL10JC

Backshell housing*



Part number
UTL10JCP1

* Backshells delivered with UTL10SEAL for sealing with plug or receptacle

O-ring



Part number
UTL10SEAL

Nut



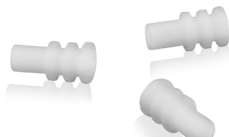
Part number
UTL10NUT

Protective shroud



Part number
UTL610PS

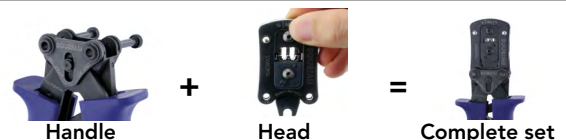
Sealing plug



Part number
SWSFILLERPLUG

Head crimp tooling (without handle)		
Contacts	Contact size	Part number of head
RM/RC 28M1K ⁽¹⁾	Standard contacts #16 Ø 1.6mm	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*
RM/RC 16M25K		S16RCM1625*
RM/RC 14M25K		S16RCM1425*
RMDXK10D28K	Coaxial contacts #16 Ø 1.6mm	M20S-1J
RCDXK1D28K		
RM/RC DX60xxD28K		
RM/RC DXK10D28 + YORX090		
RM/RC DX60xxD28		

(1): Example of plating, for other plating options see page 38
* Heads to be used with handle PN: SHANGLES



Can be used only with UTL5, UTL6JC, UTL6TH

See instruction page 59

103G1 (shell size 10, 3 + ground, 4x#16)

Contacts

#16	Contact type	AWG	Part number		Max wire Ø	Max insulator Ø
			Male	Female		
Crimp	Machined	30-28	RM28M1K ⁽¹⁾	RC28M1K ⁽¹⁾	0.55	1.00
		26-24	RM24M9K ⁽¹⁾	RC24M9K ⁽¹⁾	0.80	1.60
		22-20	RM20M13K ⁽¹⁾	RC20M13K ⁽¹⁾	1.15	1.80
		22-20	RM20M12K ⁽¹⁾	RC20M12K ⁽¹⁾	1.15	2.20
		20-16	RM16M23K ⁽¹⁾	RC16M23K ⁽¹⁾	1.80	3.20
		16-14	RM14M30K ⁽¹⁾	RC14M30K ⁽¹⁾	2.30	3.20
	Machined sealed (with O-Ring for IP68/69K unmated)	20-16	RM16M25K	RC16M25K	1.80	3.20
		16-14	RM14M25K	RC14M25K	2.28	3.20
		24	RM24M25K ⁽³⁾	RC24M25K ⁽³⁾	0.65	3.20
	Stamped & Formed reeled contacts See note (2) for loose piece	26-24	SM24M1TK6 ⁽¹⁾⁽²⁾	SC24M1TK6 ⁽¹⁾⁽²⁾	-	0.90-1.60
		22-20	SM20M1TK6 ⁽¹⁾⁽²⁾	SC20M1TK6 ⁽¹⁾⁽²⁾	-	1.20-2.10
		18-16	SM16M1TK6 ⁽¹⁾⁽²⁾	SC16M1TK6 ⁽¹⁾⁽²⁾	-	3.20
		18-16	SM16M11TK6 ⁽¹⁾⁽²⁾	SC16M11TK6 ⁽¹⁾⁽²⁾	-	3.00
		14	SM14M1TK6 ⁽¹⁾⁽²⁾	SC14M1TK6 ⁽¹⁾⁽²⁾	-	3.20
Coaxial*	Cable multipiece	see page 41	RMDXK10D28	RCDXK1D28	-	-
	Cable monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
	Twisted pair multipiece		RMDXK10D28 + YORX090	RCDXK1D28 + YORX090	-	-
	Twisted pair monocrimp		RMDX60xxD28	RCDX60xxD28	-	-
PCB	For male insert	-	RM20M12E8K	RC20M12E84K	-	-
	For female insert	-	RM20M12E8K	RC20M12E83K	-	-

(1): Example of plating, for other plating options see page 38 / (2): For loose piece contact packaging, place "L" in part number. Example: SM20ML1TK6

Note: all dimensions are in mm

(3): Includes RM/RC24M25K contacts + a ferrule RR24M1K. The ferrule can also be ordered separately. See page 53

*: Coax contacts cannot be used in the ground cavity

REMINDER

Plugs and receptacles have to be equipped with both contact genders.

EX: UTL6103G1P = 3 x SM16M1TK6 (signal) + 1 x SC16M1TK6 (ground)

Electrical characteristics

UL
16A 600V V0
13A 277V for CBC use

CN
13A 600V
10A 277V for CBC use

IEC
16A 500V 6KV 4
13A 250V 4KV 4 for CBC use

UTS 103 derating curves

