





## SOURIAU

### Connectors and interconnect systems for harsh environments

The company designs, manufactures and markets high performance interconnect solutions for severe environments from industrial broadline and universal ranges to complex system with integrated functions: filtering, high speed data transmission, hermetic seal, separation mechanism, remote handling, underwater mating, ...



Industrial



Aeronautical



Equipment & system

The dedicated end markets for SOURIAU's products are aeronautical, defense-space and industrial.



SOURIAU was established in 1917 and has been created by successive acquisitions of the industrial, aeronautical, defense and space activities of SOURIAU, JUPITER and BURNDY.

The Group's products are engineered and manufactured in the USA and Dominican Republic, Europe and Morocco, Japan and India, and sold by a worldwide sales and marketing organization, and in addition to SOURIAU's offices, a large network of licensed distributors and agents.

SOURIAU complies with most of national and international Quality Assurance Standards, production unit with ISO 14001.

ISO 14001



Quality Certificate Management System

ISO 9001

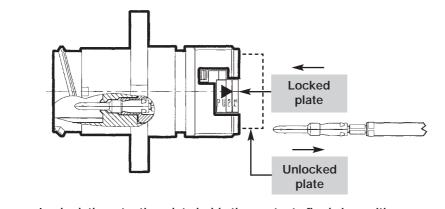
Automation & process

Aeronautic Industry : EN 9100



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Locked, the retention plate holds the contacts firmly in position Unlocked, the retention plate allows the insertion/extraction of contacts without tooling

### Description

Retention plate principle

### Features

#### Mechanical

- Monobloc shell and insulator in
- thermoplastic material self-extinguishing to UL 94 VO.
- 180° screw coupling with positive audible safety latch.
- Scoop proof.
- Copper alloy contacts, machined or stamped and formed
- plating : gold on active
- part over nickel.
- Mechanical endurance :
- connector : 250 cycles mating / unmating,
- retention plate : 50 cycles mating /
- Retention for
- Retention force :  $\pm 20 \times 70$  N
- $\begin{array}{rrrr} \ \# \ 20 & \rightarrow & 70 \ N \\ \ \# \ 16 & \rightarrow & 90 \ N. \end{array}$
- Vibration :
- frequency range :
- 10-2000 Hz, 20 g
- 10 cycles in accordance with CEI 68-2-6

#### Electrical

- Withstand voltage : 1500 Vrms min or in accordance with DIN 57110b.
- Contact resistance < 10 mW.
- Current rating per contact :
- machined contacts : # 20 (7 Amps) # 16 (1)
- # 20 (7 Amps), # 16 (13 Amps) - stamped and formed contacts :
- # 20 (5 Amps), # 16 (10 Amps).

#### Environmental

- Sealing :
- up to IP68
- Working temperature :
- -40°C to +125°C. (-40°F to +257°F)
- Resistance to salt spray :
- 48 h min
- > 1000 h (sealed mated connectors).
- Resistance to fluids :
- oil,
- petrol, fuel,
- lubricants
- other fluids : consult us.

### Presentation 🔊 🏵

CLIPPER is a plastic low cost range of industrial connectors, UL & CSA approved.

Complementing SOURIAU product range CLIPPER offers :

- a high sealing level :
- IP67 for the sealed plug (with o'ring and mating seal)
- IP68 for the enhanced sealed plug (with o'ring and a special mating seal).
  This version allows a permanent waterproof level when immersed at depths down to 30 meters.
- a retention plate system allowing insertion/extraction of the contacts without the need for tooling,
- facilities to use trade backshells with the electrical thread adaptor (PG).

#### CLIPPER range is composed of :

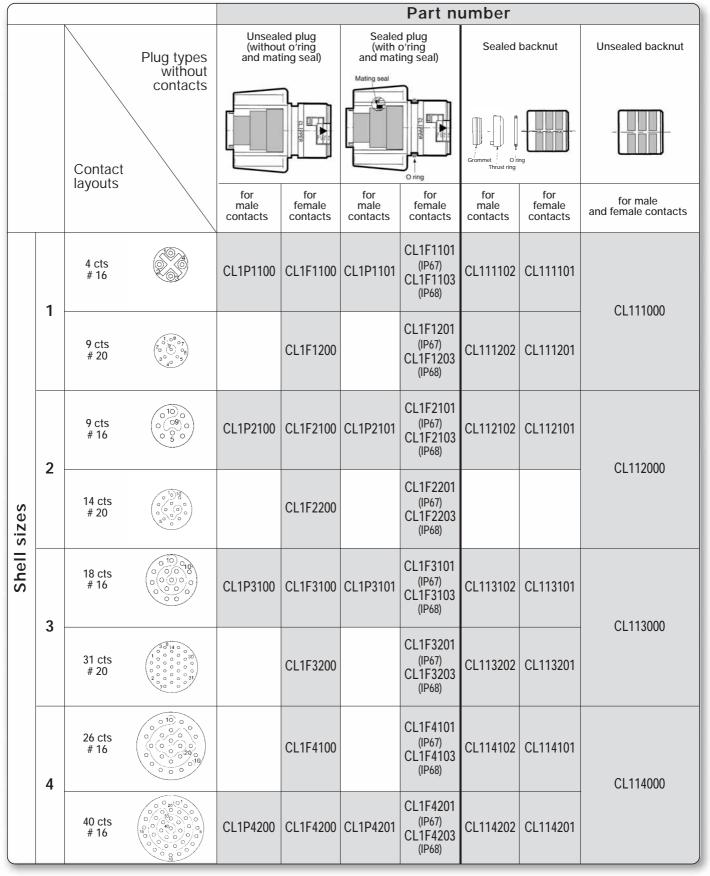
- 4 sizes of shell in molded black thermoplastic material (size 1/2/3/4).
- 7 contact layouts (4/9/14/18/26/31/40 contacts).
- #20, #16 contacts, machined or stamped and formed, crimp, solder or PC tail termination.
- An adaptor with electrical PG thread for PG backshells.
- Backnut with grommet facilities.



				Part number									
			Receptacle types without contacts	Unsealed receptacle (without o'ring)		Sealed receptacle (with o'ring) for use with backshell		Sealed receptacle (with o'ring and panel gasket)		In-line receptacle			
		Contacts layouts		ontacts youts									
				for male contacts	for female contacts	for male contacts	for female contacts	for male contacts	for female contacts	unsealed for male contacts	sealed for male contacts		
	1	4 cts # 16		CL1M1100	CL1R1100	CL1M1101	CL1R1101	CL1M1102	CL1R1102	CL1C1100	CL1C1101		
		9 cts # 20		CL1M1200		CL1M1201		CL1M1202		CL1C1200	CL1C1201		
	2	9 cts # 16	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$	CL1M2100	CL1R2100	CL1M2101	CL1R2101	CL1M2102	CL1R2102	CL1C2100	CL1C2101		
Shell sizes	2	14 cts # 20	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$	CL1M2200		CL1M2201		CL1M2202		CL1C2200	CL1C2201		
Shell	3	18 cts # 16	$\bigcirc \bigcirc $	CL1M3100	CL1R3100	CL1M3101	CL1R3101	CL1M3102	CL1R3102	CL1C3100	CL1C3101		
	3	31 cts # 20		CL1M3200		CL1M3201		CL1M3202		CL1C3200	CL1C3201		
	4	26 cts # 16		CL1M4100		CL1M4101		CL1M4102		CL1C4100	CL1C4101		
		40 cts # 16		CL1M4200	CL1R4200	CL1M4201	CL1R4201	CL1M4202	CL1R4202	CL1C4200	CL1C4201		



### Plug and backnut





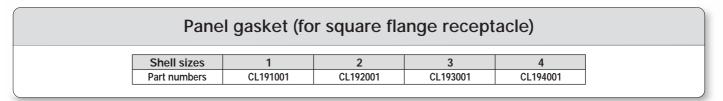
### Electrical thread backshells (PG)

Unsealed (IP40)											
	Description	Part numbers									
╶╶╾┥╴╢╎║╎╢╴┥╴╴┥┥╳┼╌┥╴┾╼╄╸		(PG 13,5)	(PG 16)	(PG 21)	(PG 36)	(PG 36)					
	Straight backshell for flexible conduit systems	CL101040	CL102040	CL103040	CL124040	CL104040					
	Straight cable clamp	CL101030	CL102030	CL103030	CL124030	-					

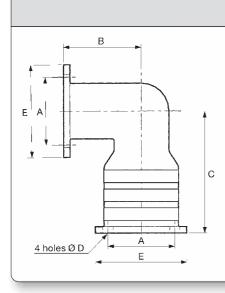
Sealed										
	Description	1	2	Part numbers 3	4	ļ				
		(PG 13,5)	(PG 16)	(PG 21)	(PG 36)	(PG 36)				
	Elbow backshell with sealing gland	CL101051	CL102051	CL103051	CL124051					
	Straight backshell for flexible conduit systems	CL101041	CL102041	CL103041	CL124041	CL104041				
	Anti- decoupling sealing gland backshell	CL101021	CL102021	CL103021	CL124021	CL104021				
Gasket										
Note : Electrical thread backshells are a	lways supplied c	omplete with	the adaptor.							



### Accessories



90° adaptors for receptacles									



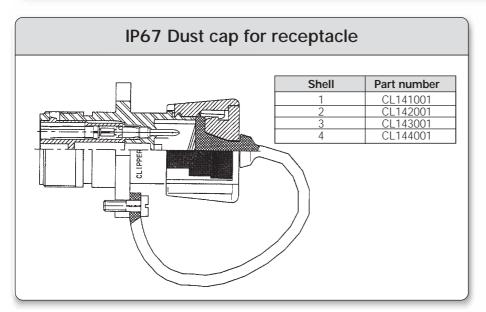
#### 90° adaptors for receptacles

Dim. (inches) / Shell sizes	А	В	С	D	E
1	.84	.96	1.52	.13	1.15
2	.97	1.10	1.56	.13	1.21
3	1.12	1.20	1.69	.15	1.40
4	1.44	1.55	1.95	.15	1.87

#### 90° sealed adaptors for receptacles Shell 1 to 4

Shell	Part numbers
0.101	Sealed*
1	CL131001
2	CL132001
3	CL133001
4	CL134001
* with nanel dasket	· · · · · · · · · · · · · · · · · · ·

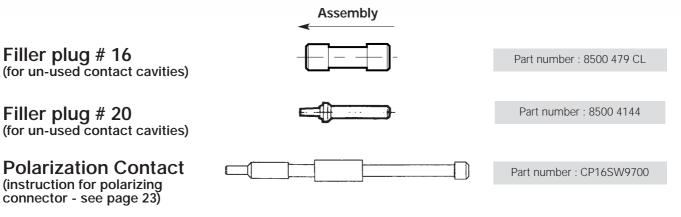
with panel gaske





### Stamped and formed contacts

Packaging	Crimp Contact with strain relief		Part numbers	Size	Ø mm over insulation (inches)	AWG	Admissible section mm2	
Bulk -		male	CF16PC10RF					
Duix -		female	CF16SC10RF	16	2 mm to 3 mm	18 to 16	0.7 to 1.5 mm <sup>2</sup>	
Reel 5,000 -		male	CF16PC18RF		(0.08" to 0.12")		0.7 (0 1.5 mm	
pcs.		female	CF16SC18RF					
Bulk -		male	CF10PC10RF					
Duik		female	CF10SC10RF	20	1.2 mm to 2.1 mm (0.05" to 0.08")	22 to 20	0.35 to 0.6 mm <sup>2</sup>	
Reel 5,000 -		male	CF10PC18RF	20			0.55 10 0.0 mm	
5,000 pcs.		female	CF10SC18RF					
Plating RF	: gold flash on active part for standard version	(For oth	ner platings, consult F	CI)				



#### Print Circuit (PC) Tail Machined Contact

Bulk	male	16		CM16PT10LY
Duik	male	20		CM10PT10LY



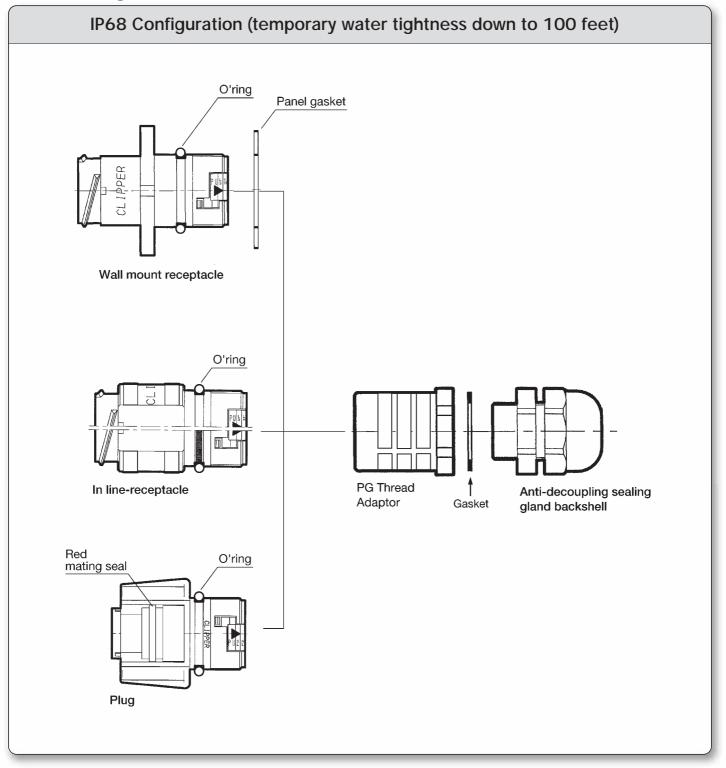
### Machined contacts

Packaging	Contact types	Part numbers	Size	Ø mm over insulation (inches)	AWG	Admissible section mm2	
	crimp	male	CM16PC10MQ			18 to 14	0.93
		female	CM16SC10MQ	. 16	2 mm to 3 mm		to 1.91 mm <sup>2</sup>
	solder	male	CM16PS10MQ		(0.08" to 0.12")	14*	
		female	CM16SS10MQ			Max	
Bulk		male	CM10PC10MQ			24 to 18	0.21
		female	CM10SC10MQ	20	1.2 mm to 2.1 mm		to 0.93 mm <sup>2</sup>
	solder	male	CM10PS10MQ		(0.05" to 0.08")	18 Max	
		female	CM10SS10MQ				
			CM16PC00MQ	16	2 mm to 3 mm (0.08" to 0.12")	18 to 13	0.93
		female	CM16SC00MQ		(0.00 (0.0.12)		to 2.60 mm <sup>2</sup>
		male	CM16PC20MQ	16	2 to 3 mm	20	0.21
		female	CM16SC20MQ		(0.08" to 0.12")	-	to 0.60 mm <sup>2</sup>
	contact reducing cable sleeve cable	male	CM10PC20MQ	20	1.2 to 2.1 mm (0.05" to 0.08")	30 to 24	0.06
		female	CM10SC20MQ				to 0.21 mm <sup>2</sup>
	2 : 0.4µ mm gold on active part (.016µ inche	es)				^ L	Jp to 1.91 mm <sup>2</sup>

#### Extended ground contact-crimp (Length + .039 inch = +1 mm)

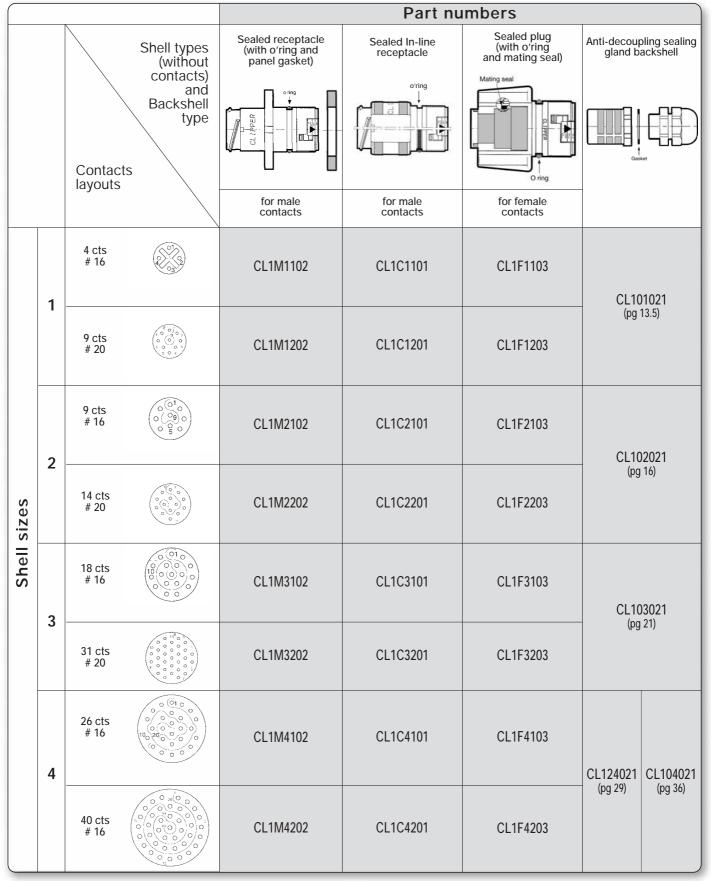
Bulk	male	16	0.08" to 0.12"	18 to 14	8501 9641
Duik	male	20	0.05" to 0.08"	24 to 18	8501 9642 CL

### **IP68** Configuration



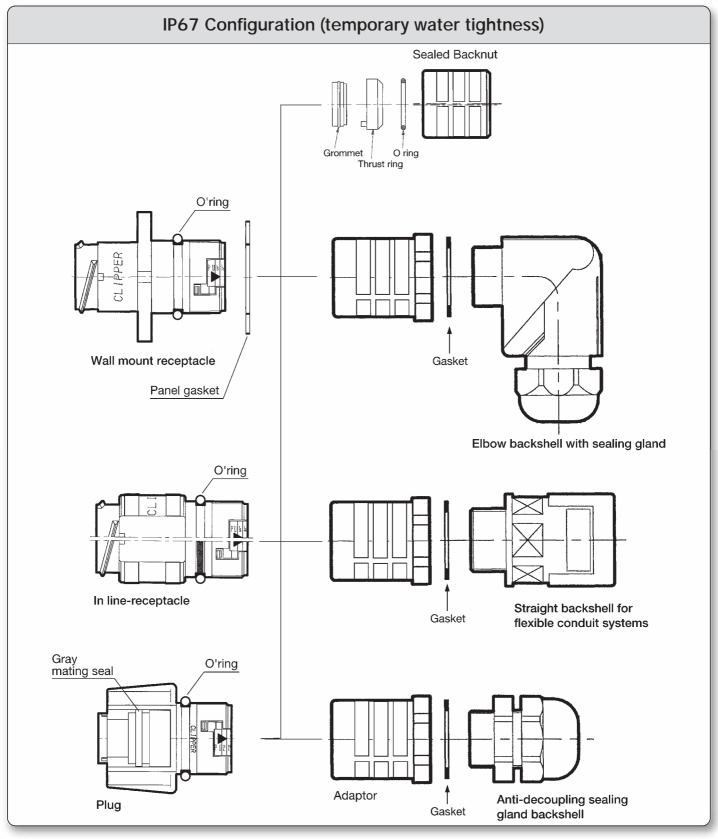


### **IP68** Configuration

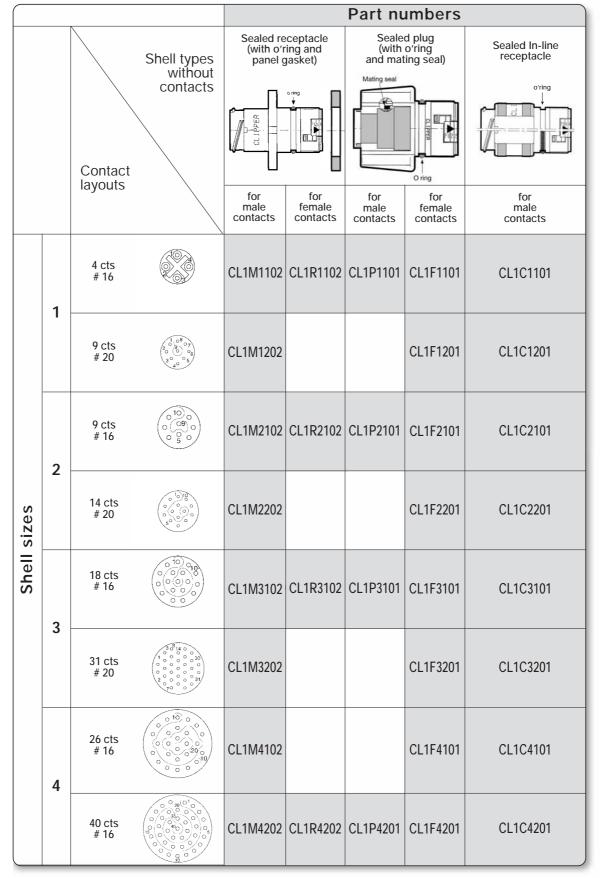




### **IP67** Configuration



### **IP67** Configuration





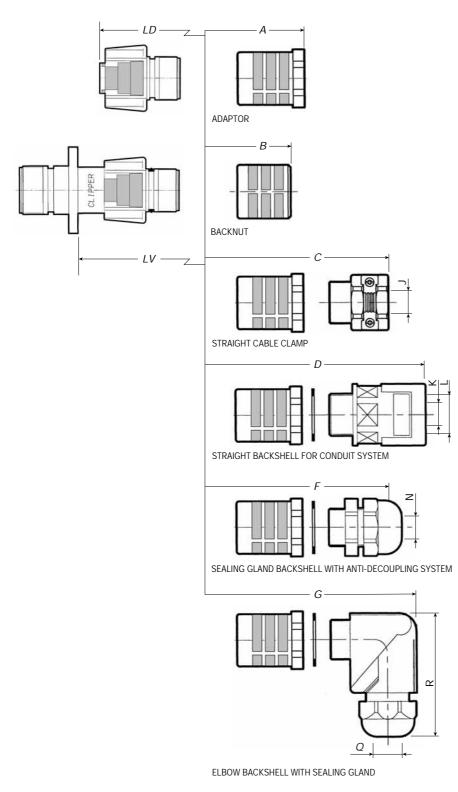
### **IP67** Configuration

		<b>J</b>		Part numbers									
			Backshell types	Sealed b	backnut	Elbow backshell with sealing gland	Straight ba flexible cond	ackshell for duit systems	Anti-decoup gland b	oling sealing ackshell			
		Contact		Grommet O'ring Thrust ring									
	1	layouts		for male contacts	for female contacts								
	1	4 cts # 16		CL111102	CL111101	CL101051	CL10		CL101021				
		9 cts # 20	20 30 40 50 10 10 10 10 10 10 10 10 10 1	CL111202	CL111201	(pg 13.5)	(pg 13.5)		(pg 13.5)				
	2	9 cts # 16	$\begin{pmatrix} 0 & 10 \\ 0 & 09 \\ 0 & 09 \\ 0 & 5 \\ 0 & 5 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\$	CL112102	CL112101	CL102051	CL10		CL102021 (pg 16)				
sizes	2	14 cts # 20	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$			(pg 16)	(pg	16)					
Shell	3	18 cts # 16		CL113102	CL113101	CL103051	CL103041 (pg 21)		CL103021				
	3	31 cts # 20		CL113202	CL113201	(pg 21)			(pg 21)				
	4	26 cts # 16	$( \begin{array}{c} 0 & 10 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 & 0 \\ 0 \\$	CL114102	CL114101	CL124051	CL124041	CL104041	CL124021	CL104021			
		40 cts # 16		CL114202	CL114201	(pg 29)	(pg 29)	(pg 36)	(pg 29)	(pg 36)			



### Mated and unmated connectors with backshells

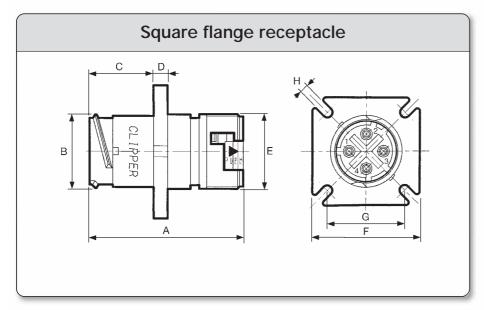
#### Overall dimensions in inches

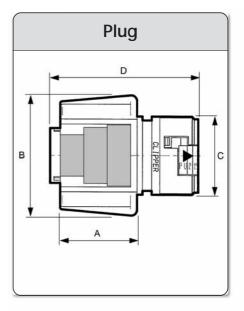


Dimensions						
Shell	1	2	3	4	1	
Dim. (inches)				(PG 29)	(PG 36)	
LDA	2.01	2.09	2.09	2.17	2.17	
LVA	2.29	2.33	2.33	2.41	2.41	
LDB	1.81	1.85	1.85	-	1.85	
LVB	2.09	2.09	2.09	-	2.09	
LDC	2.68	2.85	3.03	3.41	-	
LVC	2.97	3.09	3.27	3.60	-	
LDD	3.41	3.50	3.62	3.70	4.25	
LVD	3.70	3.74	3.86	3.94	4.47	
LDF	3.15	3.27	3.35	3.74	4.02	
LVF	3.43	3.50	3.58	3.98	4.25	
LDG	3.31	3.46	3.77	4.29	-	
LVG	3.58	3.70	4.01	4.52	-	
R Max.	2.24	2.34	2.87	3.58	- )	

Cable acceptance*						
Dim. (inches)		2	3	(PG 29)	(PG 36)	
J	.24/.55	.24/.63	.31/.83	.39/ 1.10	-	
Conduit L Pmaflex	.67	.67	.91	1.14	1.42	
К Мах	.63	.63	.85	1.08	1.42	
Ν	.24/47	.39/.55	.51/.71	.71/.98	.87/ 1.26	
٥	.24/.47	.39/.55	.51/.71	.71/.98		

### **Dimensions in inches**

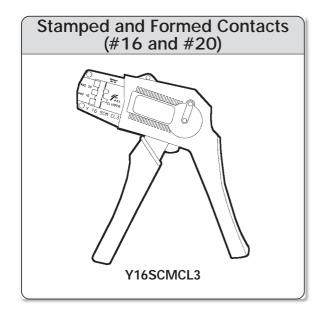




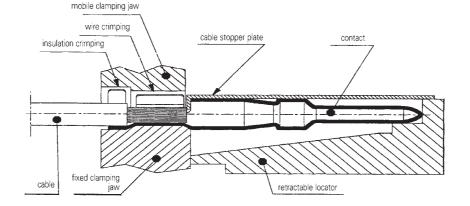
Shell sizes	1	2	3	4
Dim. (inches)				
Α	1.67	1.67	1.67	1.67
В	.83	.96	1.14	1.59
С	.71	.71	.71	.71
D	.16	.16	.16	.16
Е	.81	.94	1.12	1.57
F	1.17	1.23	1.42	1.89
G min.	.83	.96	1.11	1.43
Max.	.92	.98	1.17	1.57
Н	.13	.13	.15	.15

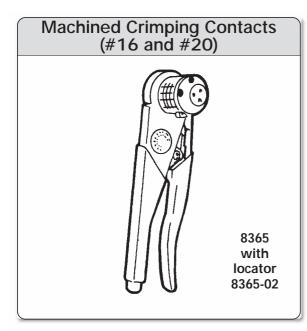
Shell sizes	1	2	3	4
Dim. (inches)				
Α	.8	.8	.8	.8
В	1.15	1.28	1.46	1.92
С	.81	.94	1.12	1.57
D	1.52	1.56	1.56	1.56

### Manual Crimping Tool



- Squeeze the plier handles until a final click sounds, release, the pliers should open by themselves.
- Fully insert the contact into the locator (corresponding gauge), the contact crimping lugs should be directed upwards, according to the drawing.
- Put the stripped wire in the crimping part until it comes in contact with the stopper plate. Make sure that no strands stick out of the crimping part.
- Squeeze the plier handles until a final click sounds, release, the pliers should open by themselves.
- Check the overall aspect of the crimping





- Push the cable into the contact barrel and make sure the cable strands stick out of the inspection hole.
- The pliers must be used on the jaws side.
- Squeeze the plier handles until a final click sounds, release, the pliers should open by themselves.
- Insert both wire and contact (or wire, reducing sleeve and contact) between the 4 jaws until stopped by the locator.
- Fully squeeze until a final click sounds, the pliers should open once the crimping is performed
- Extract the wire and crimped contact, then check the overall aspect of the crimping.



### Automatic crimping tool



Crimping Mechanism (left side miniapplicators)			
Contacts	AWG	Contact P/N	Crimp Mech. P/N
16	16-18	CF16 PS 18RF CF16 SC 18RF	CM30-R
20	20-22	CF10 PS 18RF CF10 SC 18RF	CM31-R



Press and crimping mechanism are rental. Please contact Customer Service.

#### UTM2 Automatic crimping tool for Clipper

#### Description

Electromechanical high speed semi automatic press is designed for mass production and is realized totally in assembled steel parts.

Voltage:	
Power .:	
Weight:	

Dimensions:

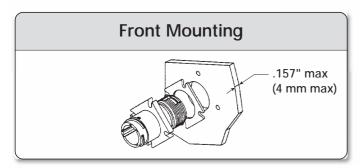
115VAC - 60 Hz 700 Watts 300 lbs. (including one crimp mechanism) 939.8x533.4x711.2 mm (37.0"x21.0"x28.0")



### Panel mounting / Panel cut-out

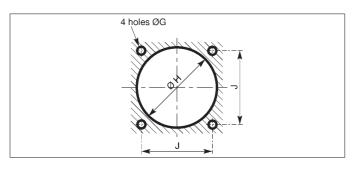
#### Panel mounting

There are two types of mounting possible: through the front or through the back of the panel.



#### Panel cut-out

• For a sealed mounting, the seal gasket shall be used, making sure the surface is in good condition.

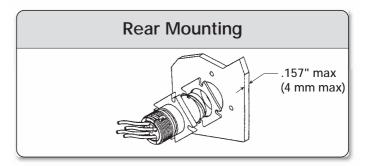


· Observe the drilling hole diameters indicated below.

 Use the recommended screws : M3 (all shells) or # 4.40 (shells 1 and 2) # 6.32 (shells 3 and 4)

• Respect the coupling torques indicated M3 (all shells) : 0.70 N.m Max

Shell sizes (iuches)	1	2	3	4
н	.85	.98	1.22	1.61
I	.84	.97	1.13	1.44
L	.13	.13	.15	.15





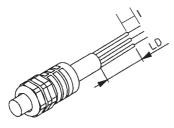
#### **Stripping Instructions**

#### Use the upmost care with stripping operation :

· Use stripping pliers appropriate for the cable gauge and which are in perfect condition.

• In order to obtain a correct crimping and to maintain all of the connector sealing characteristics, the wires must have the dimensions described below.

#### Jacketed Cable Stripping Length



carefully make an incision in order to remove the cable protection on a

Shell size	1	2	3		4
layouts	Indifferent			26	40
LD mm	60	65	65	80	100
(inch)	(2.36′)	(2.56′)	(2.56′)	(3.15")	(3.94")

Caution : This operation should be realized without deterioration of wires insulation.

Then, follow the normal stripping instructions : - single wire with machined crimping contacts,

- single wire with stamped and formed crimping contacts

#### Wire Stripping Length

Make a 90° cut at the cable end.

length LD as described.

With machined crimping contacts

Contact size	I = Wire stripping lenght
layouts	6 mm (.236")
#20	$\emptyset$ over insulation > 2 mm $\Rightarrow$   = 5 (> .08" $\Rightarrow$   = .20") $\emptyset$ over insulation > 2 mm $\Rightarrow$   = 7 (> .08" $\Rightarrow$   = .27")

· With stamped and formed crimping contacts

Contact diameter	I = Wire stripping lenght
#16	4 mm (.157" <b>)</b>
#20	4 mm (.157")



### Instruction For Assembly

#### Insertion and extraction of contacts

#### Single wires

Contact insertion and extraction is performed without a tool thanks to te retainer plate system.

#### Insertion



 With the thumb and index finger, squeeze the retainer plate flaps and pull backwards : the plate is then in the unlocked position.

2) Fully insert the wired contact in the cavity.



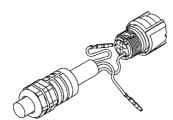
3) Repeat the same procedure for the other contacts.

4) Once again squeeze the retainer plate flaps and push forwards: the plate is then locked and retains the contacts (90 N of retention force for contacts of 1.6 mm dia.)

5) The plate can only be pushed backed if the contacts are correctly engaged (backup security)

#### Special case of jacketed cables

- 1) Locate the first contact and the corresponding cavity.
- 2) The wire should described a buckle as describe below.
- 3) Unlock the retainer plate as described above.
- 4) Fully insert the wired contact in the cavity.
- 5) Respect the same procedure for the other contacts
- 6) Once again squeeze the retainer plate flaps and push forwards : the plate is then locked



#### Extraction



 With the thumb and index finger, squeeze the retainer plate flaps and pull backwards : the plate is then in the unlocked position.

Pull the contact wire: the the contact comes out of the cavity.



3) Repeat the same procedure for the other contacts.

Special case of jacketed cables

7) Manually fully screw the adaptor and the backshell on the connector.

- Caution : In the sealed version don't forget the O-ring.
- 8) Push forwards the cable of 10 mm in the backshell.
- 9) Fully screw on the backshell with a wrench while keeping the adaptor with another wrench.

Note : The plate can only be pushed back if the contacts are correctly engaged (backup- security)



### Instruction For Assembly

#### Adaptor and PG electrical thread backshells

The CLIPPER connector must be equipped with an adaptor in order to use a PG electrical thread backshell (e.g.: cable clamp or sealing gland, or flexible conduits system backshells, etc.)



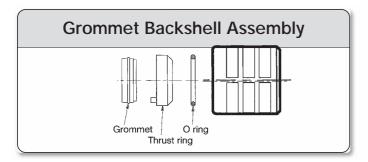
1) Manually, fully screw the adaptor on the connector, the hexagonal nut towards the rear.

2) In the sealed version, cover the O-ring.

3) Manually, fully screw the PG thread backshell of your choice.



Note: In the case of an elbow backshell, it is possible to adjust the position according to the angle desired.



1) Position the O-ring at the bottom of the backnut.

2) Run the backnut around the cable.

- 3) Unlock the retainer plate.
- 4) Position the grommet in the thrust ring, resting against the retainer plate.
- 5) Insert the contacts through the grommet and the retainer plate.
- 6) Lock the retainer plate.
- 7) Screw the backshell.

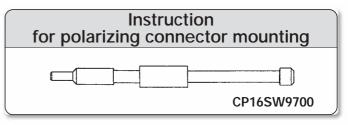


#### Heat shrink boot

Shrink sleeve as follows :

- 1) Use heat gun with an air deflector nozzle.
- 2) Adjust air deflector opening to accommodate tubing size. Turn switch ON. Wait until full heat output is reached.
- 3) Position the air deflector over section of tubing to be shrunk. Start at pre-shrunk section and work towards open end.
- 4) When tubing begins to shrink, move gun so that air is distributed in a band around the tubing circumference causing it to shrink evenly around the cable.
- 5) Move nozzle to adjacent section and shrink in the same manner. Repeat process on section at a time until entire length is shrunk.

Avoid excessive heat. Direct heat away from connector assembly to prevent damage.



When the insert is partially filled with contacts, place polarization contact into selected hole location in the FEMALE INSERT and push in until seated.

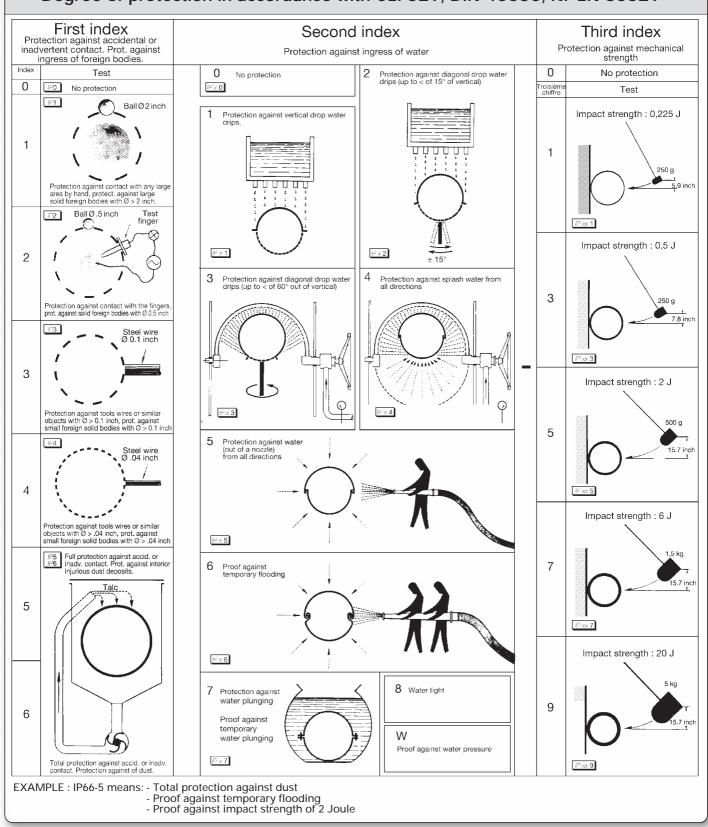
- Polarization contacts are used to provide keying capabilities for the CLIPPER series.
- Polarization contacts are used in the **socket-cavities** of standard plugs and reverse receptacles.

In order to lock the couple of chosen connectors, you have to let free the cavity in front of the polarization contact.

To avoid the connection with other connectors, you have to insert a contact in the cavity in front of the polarization contact.

### General technical information

#### Degree of protection in accordance with CEI 529, DIN 40050, NF EN 60529





#### **Conversion Table**

(mm)

(inches)

(mm)	(inches)	(mm)	(inches)
0.1	0.00394	8.2	0.32308
0.2	0.00788	8.4	0.33096
0.3	0.01182	8.6	0.33884
0.4	0.01576	8.8	0.34672
0.5	0.01970	9.0	0.35460
0.6	0.02364	9.2	0.36248
0.7	0.02758	9.4	0.37036
0.8	0.03152	9.6	0.37824
0.9	0.03546	9.8	0.38612
1.0	0.03940	10.0	0.39400
1.1	0.04334 0.04728	10.5	0.41370
<u>1.2</u> 1.3	0.04728	11.0	0.43340 0.45310
1.3	0.05122	12.0	0.43310
1.5	0.05910	12.5	0.47200
1.6	0.06304	13.0	0.47230
1.7	0.06698	13.5	0.53190
1.8	0.07092	14.0	0.55160
1.9	0.07486	14.5	0.57130
2.0	0.07880	15.0	0.59100
2.1	0.08274	15.5	0.61070
2.2	0.08668	16.0	0.63040
2.3	0.09062	16.5	0.65010
2.4	0.09456	17.0	0.66980
2.5	0.09850	17.5	0.68950
2.6	0.10244	18.0	0.70920
2.7	0.10638	18.5	0.72890
2.8	0.11032	19.0	0.74860
2.9	0.11426	19.5	0.76830
3.0	0.11820	20.0	0.78800
3.1	0.12214	20.5	0.80770
3.2	0.12608	21.0	0.82740
3.3	0.13002	21.5	0.84710
3.4	0.13396	22.0	0.86680
3.5	0.13790	22.5	0.88650
3.6	0.14184	23.0	0.90620
3.7	0.14578	23.5	0.92590
3.8	0.14972 0.15366	24.0	0.94560
<u>3.9</u> 4.0	0.15366	24.5 25.0	0.96530
4.0	0.16154	25.5	1.00470
4.2	0.16548	26.0	1.02440
4.3	0.16942	26.5	1.04410
4.4	0.17336	27.0	1.06380
4.5	0.17730	27.5	1.08350
4.6	0.18124	28.0	1.10320
4.7	0.18518	28.5	1.12290
4.8	0.18912	29.0	1.14260
4.9	0.19306	29.5	1.16230
5.0	0.19700	30.0	1.18200
5.2	0.20488	30.5	1.20170
5.4	0.21276	31.0	1.22140
5.6	0.22064	31.5	1.24110
5.8	0.22852	32.0	1.26080
6.0	0.23640	32.5	1.28050
6.2	0.24428	33.0	1.30020
6.4	0.25216	33.5	1.31990
6.6	0.26004	34.0	1.33960
6.8	0.26792	34.5	1.35930
7.0	0.27580	35.0	1.37900
7.2	0.28368	35.5	1.39870
7.4	0.29156	36.0	1.41840
7.6	0.29944	36.5	1.43810
7.8	0.30732	37.0	1.45780
8.0	0.31520	37.5	1.47750

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38.0	1.49720
38.5	1.51690
39.0	1.53660
39.0	1.55000
39.5	1.55630
40.0	1.57600
40.5	1.59570
41.0	1.61540
41.5	1.63510
42.0	1.65480
42.5	1.67450
43.0	1.69420
43.5	1.71390
44.0	1.73360
44.5	1.75300
44.0	1.75330 1.77300
45.0	1.77300
45.5	1.79270
46.0	1.81240
46.5	1.83210
47.0	1.85180
47.5	1.87150
48.0	1.89120
48.5	1.91090
49.0	1.93060
49.5	1.95030
50.0	
51.0	2.00940
52.0	2.04880
53.0	2.08820
54.0	2.12760
55.0	2.16700
56.0	2.20640
57.0	2.24580
58.0	2.28520
59.0	2.32460
60.0	2.36400
61.0	2.40340
	2.44280
62.0	
63.0	2.48220
64.0	2.52160
65.0	2.56100
66.0	2.60040
67.0	2.63980
68.0	2.67920
69.0	2.71860
70.0	2.75800
71.0	2.79740
72.0	2.83680
73.0	2.87620
74.0	2.91560
75.0	
	2.95500
80.0	3.15200
85.0	3.34900
90.0	3.54600
100.0	3.94000
200.0	7.88000
400.0	15.76000
600.0	23.64000
800.0	31.52000
1000.0	39.40000
1200.0	47.28000
1200.0	47.20000

63.04000

78.80000

126.08000

1600.0

2000.0

3200.0

(°C)	(°F)
- 70	- 94
- 65	- 85
- 55	- 67
- 50	- 58
- 40	- 40
0	32
37	98.6
80	176
125	257
150	302
170	338
200	392
250	482

bar	psi	mmHg (torr)
10	145.0	7600
5	72.5	3800
2	29.0	1520
1	14.5	760
0.5	7.2	380
0.1	1.4	76

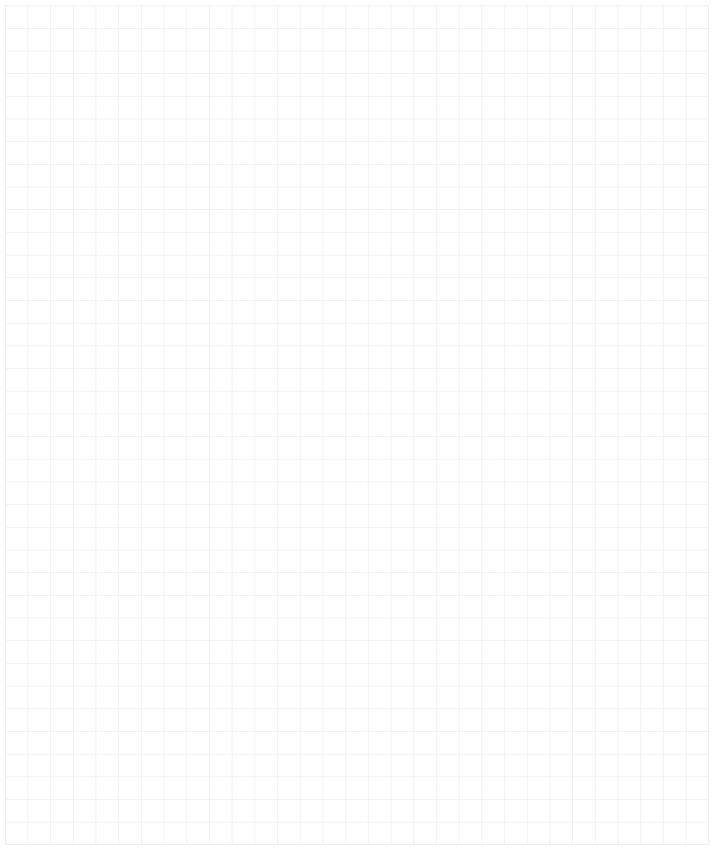
mbar	psi	torr (mmHg)
10	145.0	7600
5	72.5	3800
2	29.0	1520
1	14.5	760
0.5	7.2	380
0.1	1.4	76

(1) 6145DJ - Câbles multipaires (armés, paires blindées) 250 MZH.

(2) 6145DJ - Câbles multipaires (armés, paires non blindées) 250 MZH.



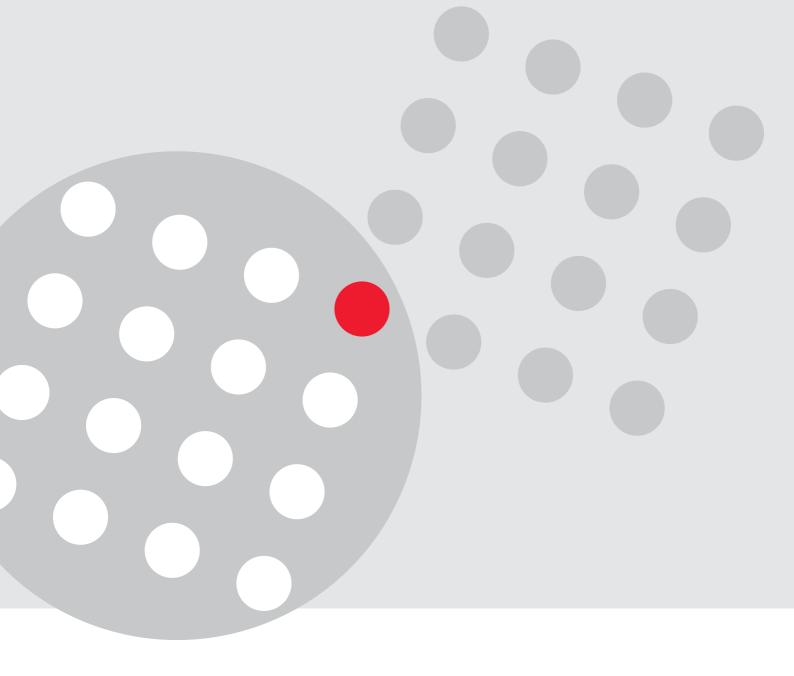
### Notes





### Notes





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