





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.



Instrumentation Automation & process Weapon delivery system Avionics

Launcher & missile

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.

Quality Certificate Management System

ISO 9001

Environment Certificate Management System

Quality Certificate Management System

ISO 14001

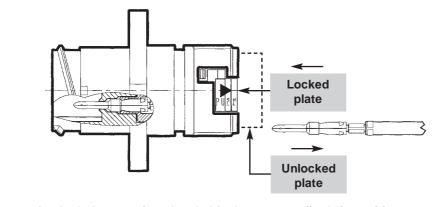
Aeronautic Industry : EN 9100





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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 V0.
- 180° screw coupling with positive audible safety latch.
- Scoop proof.
- Copper alloy contacts, machined or stamped and formed
- plating : gold on active
 part over pickel
- part over nickel.
- Mechanical endurance :
- connector : 250 cycles mating / unmating,
- retention plate : 50 cycles mating /
- unmating. • Retention force :
- $-#20 \rightarrow 70 \text{ N}$
- -#16 → 90 N.
- 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 (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 :

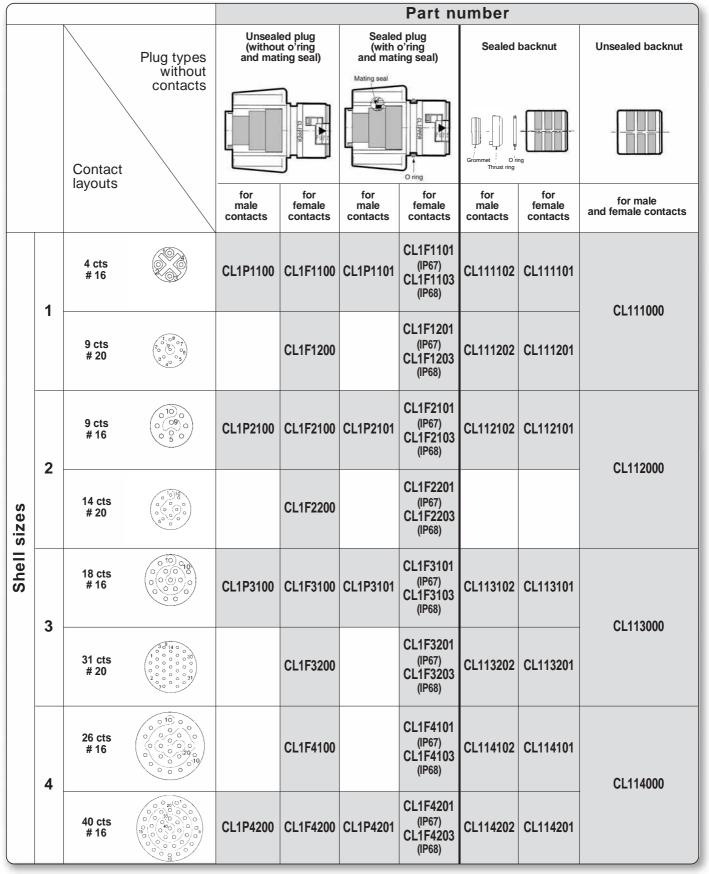
- 4 sizes of shell in molded black thermoplastic material (size 1/2/3/4).
- 7 contact layouts (4/9/14/18/26/31/40 contacts).
- #20, #16 contacts, machined or stamped and formed, crimp, solder or PC tail termination.
- An adaptor with electrical PG thread for PG backshells.
- Backnut with grommet facilities.

Available Style Square flange receptacle and in-line receptacle

					-		Part n	umber				
			Receptacle types without contacts	Unsealed (withou	receptacle t o'ring)	(with of for us	eceptacle o'ring) e with sshell	(with o'	eceptacle ring and gasket)	In-line receptacle		
		Contac layouts	Contacts layouts		CL I PPER							
				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	
	4	4 cts # 16		CL1M1100	CL1R1100	CL1M1101	CL1R1101	CL1M1102	CL1R1102	CL1C1100	CL1C1101	
	1	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	
sizes	2	14 cts # 20		CL1M2200		CL1M2201		CL1M2202		CL1C2200	CL1C2201	
Shell	2	18 cts # 16		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							
	Description	(PG 13,5)	(PG 16)	3 (PG 21)	(PG 36)	(PG 36)			
	Straight backshell for flexible conduit systems	CL101040	CL102040	CL103040	CL124040	CL104040			
	Straight cable clamp	CL101030	CL102030	CL103030	CL124030	-			

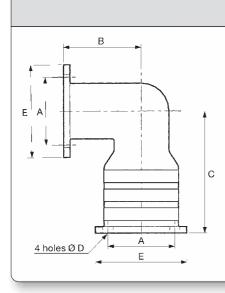
Sealed									
	D			Part numbers					
	Description	1 (PG 13,5)	2 (PG 16)	3 (PG 21)	(PG 36)	1 (PG 36)			
	Elbow backshell with sealing gland	CL101051	CL102051	CL103051	CL124051	-			
	Straight backshell for flexible conduit systems	CL101041	CL102041	CL103041	CL124041	CL104041			
	Anti- decoupling sealing gland backshell	CL101021	CL102021	CL103021	CL124021	CL104021			
Gasket									



Accessories

Panel gasket (for square flange receptacle)											
	Shell sizes	1	2	3	4						
	Part numbers	CL191001	CL192001	CL193001	CL194001						

90°adaptors for receptacles									



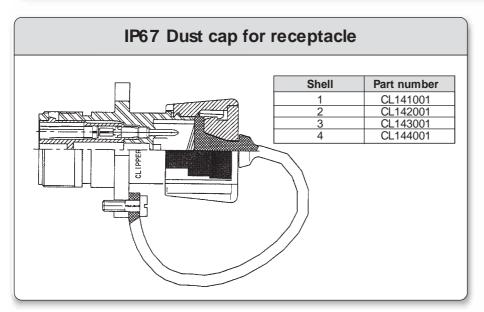
90° adaptors for receptacles

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
O licii	Sealed*
1	CL131001
2	CL132001
3	CL133001
4	CL134001
* with nanel asket	t i i i i i i i i i i i i i i i i i i i

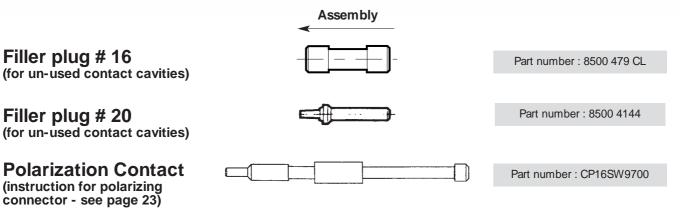
with panel gasket





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			18 to 16		
Duik -		female	CF16SC10RF	16	2 mm to 3 mm (0.08" to 0.12")		0.7 to 1.5 mm ²	
Reel 5,000 -		male	CF16PC18RF	-			0.7 10 1.5 mm	
pcs.		female	CF16SC18RF					
Bulk -			CF10PC10RF					
Buik		female	CF10SC10RF	20	1.2 mm to 2.1 mm (0.05" to 0.08")	22 to 20	0.35 to 0.6 mm ²	
Reel		male	CF10PC18RF	20			0.35 to 0.6 mm ²	
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

F	Bulk	male	16		CM16PT10LY	
	June	male	20		CM10PT10LY	



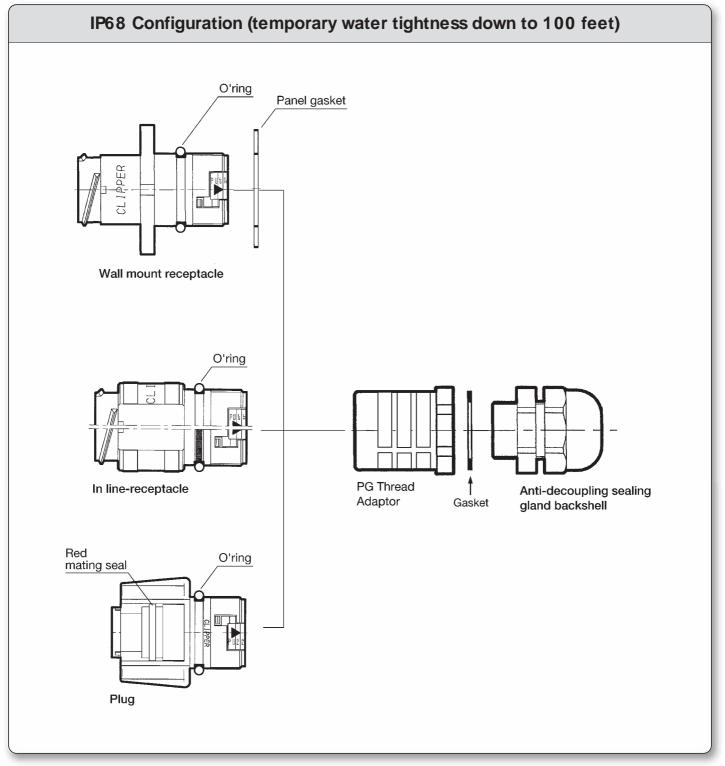
Machined contacts

Packaging	Contact types		Part numbers	Size	Ø mm over insulation (inches)	AWG	Admissible section mm2	
			CM16PC10MQ			18 to 14	0.93	
			2 mm to 3 mm		to 1.91 mm ²			
-	solder	male	CM16PS10MQ		6 (0.08" to 0.12")	14* Max		
-		female	CM16SS10MQ					
Bulk	crimp		CM10PC10MQ			24 to 18	0.21 to 0.93 mm²	
		female	CM10SC10MQ	20	1.2 mm to 2.1 mm (0.05" to 0.08")		10 0.33 111112	
		male	CM10PS10MQ			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 10 0.12)		to 2.60 mm ²	
		male	CM16PC20MQ	16	2 to 3 mm	20	0.21	
		female	CM16SC20MQ		(0.08" to 0.12")		to 0.60 mm ²	
	contact reducing cable sleeve	male	CM10PC20MQ	20	1.2 to 2.1 mm	30 to 24	0.06 to 0.21 mm ²	
Image: side velocities Image: side velocities<								
lating MC	Ω : 0.4μ mm gold on active part (.016μ inche	s)				* L	Jp to 1.91 mm ²	

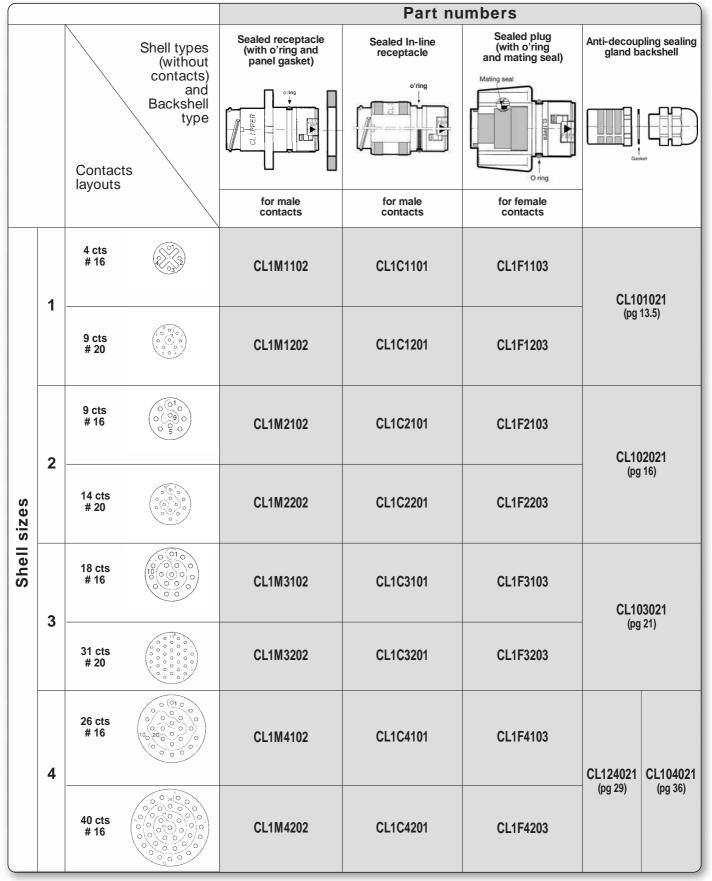
Extended ground contact-crimp (Length + .039 inch = +1 mm)

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

IP68 Configuration

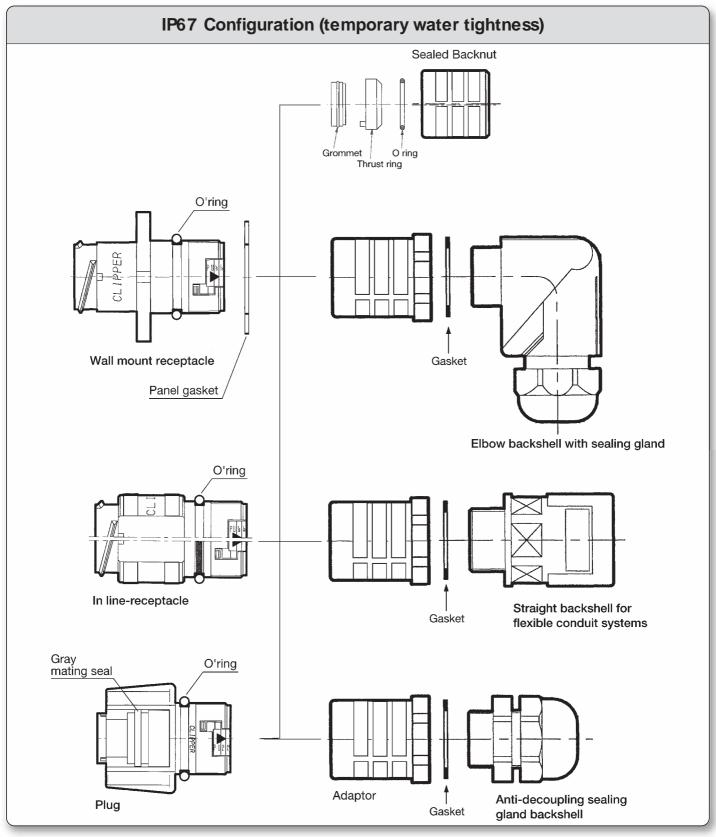


IP68 Configuration

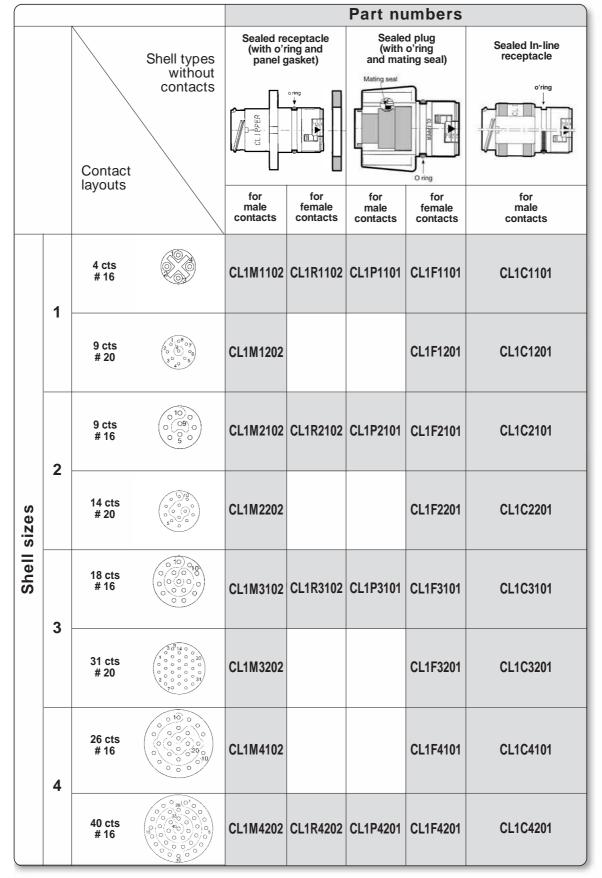




IP67 Configuration



IP67 Configuration





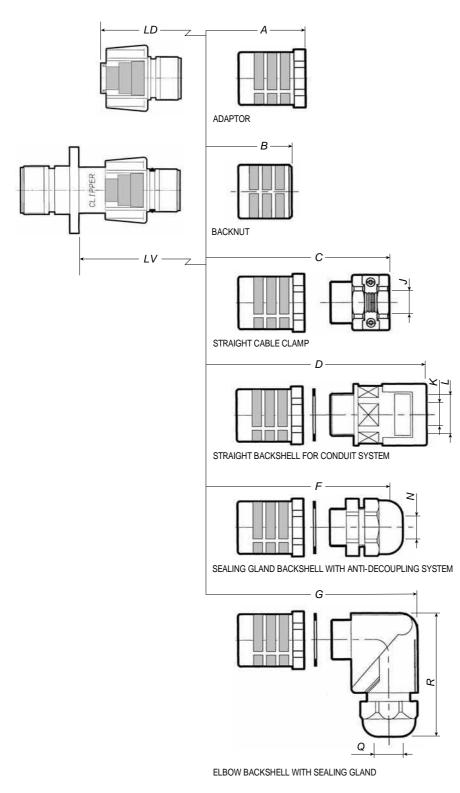
IP67 Configuration

				Part numbers						
			Backshell types	Sealed I	oacknut	Elbow backshell with sealing gland	Straight ba flexible con	ackshell for duit systems	Anti-decoup gland b	oling sealing ackshell
		Contact		Grommet Orir Thrust ring	9		Gaster			
		layouts		for male contacts	for female contacts					
	1	4 cts # 16		CL111102	CL111101	CL101051		01041	CL10	
	-	9 cts # 20	$\left(\begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 $	CL111202	CL111201	(pg 13.5)	(pg	13.5)	(pg)	13.5)
	2	9 cts # 16	$\begin{pmatrix} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 5 \\ 0 \\ 5 \\ 0 \\ 5 \\ 0 \\ 0$	CL112102	CL112101	CL102051	CL10		CL10	
sizes		14 cts # 20	$\begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 &$			(pg 16) (pg 16)	(pg	(pg 16)		
Shell	3	18 cts # 16		CL113102	CL113101	CL103051)3041	CL10	
	5	31 cts # 20		CL113202	CL113201	(pg 21)	gq)	21)	(pg	21)
-	4	26 cts # 16		CL114102	CL114101	CL124051	CL124041	CL104041	CL124021	CL104021
		40 cts # 16	(1,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	CL114202	CL114201	(pg 29)	(pg 29)	(pg 36)	(pg 29)	(pg 36)



Mated and unmated connectors with backshells

Overall dimensions in inches

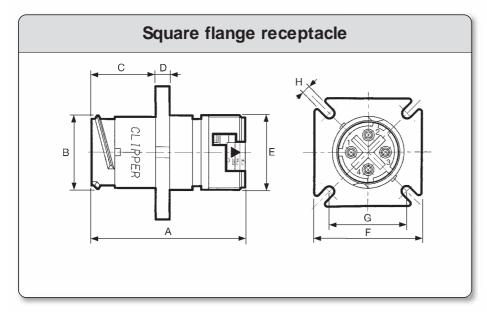


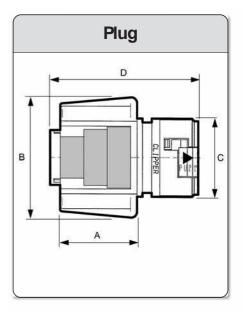
Dimensions						
Shell	1	2	3	4	4	
Dim. (inches)				(PG 29)	(PG 36)	
LDA	2.01	2.09	2.09	2.17	2.17	
LVA	2.29	2.33	2.33	2.41	2.41	
LDB	1.81	1.85	1.85	-	1.85	
LVB	2.09	2.09	2.09	-	2.09	
LDC	2.68	2.85	3.03	3.41	-	
LVC	2.97	3.09	3.27	3.60	-	
LDD	3.41	3.50	3.62	3.70	4.25	
LVD	3.70	3.74	3.86	3.94	4.47	
LDF	3.15	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)				(PG 29)	(PG 36)	
J	.24/.55	.24/.63	.31/.83	.39/ 1.10	-	
Conduit L Pmaflex	.67	.67	.91	1.14	1.42	
KMax	.63	.63	.85	1.08	1.42	
N	.24/47	.39/.55	.51/.71	.71/.98	.87/ 1.26	
Q	.24/.47	.39/.55	.51/.71	.71/.98	-	



Dimensions in inches

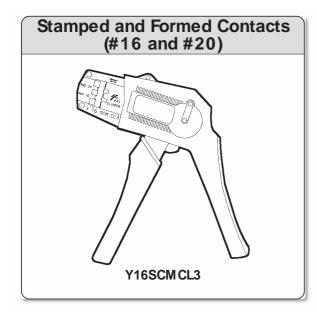




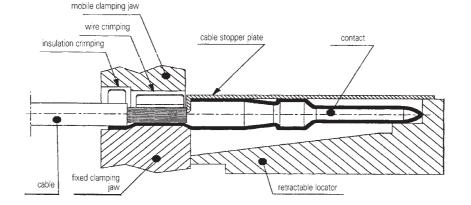
Shell sizes	1	2	3	4
Dim. (inches)				
Α	1.67	1.67	1.67	1.67
В	.83	.96	1.14	1.59
С	.71	.71	.71	.71
D	.16	.16	.16	.16
E	.81	.94	1.12	1.57
F	1.17	1.23	1.42	1.89
g min.	.83	.96	1.11	1.43
Max.	.92	.98	1.17	1.57
Н	.13	.13	.15	.15

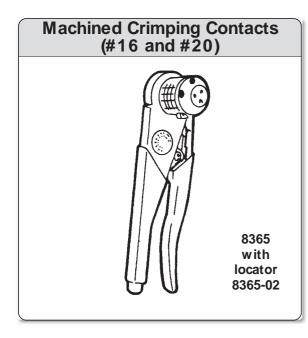
Shell sizes	1	2	3	4
Dim. (inches)				
Α	.8	.8	.8	.8
В	1.15	1.28	1.46	1.92
С	.81	.94	1.12	1.57
D	1.52	1.56	1.56	1.56

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	CM 30-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:

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

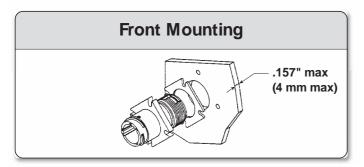
115VAC - 60 Hz



Panel mounting / Panel cut-out

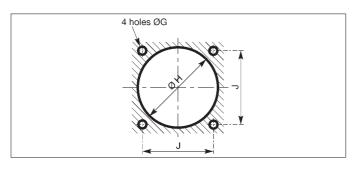
Panel mounting

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.

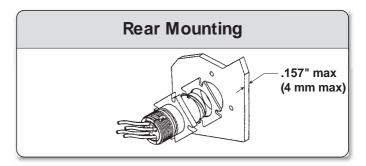


• Observe the drilling hole diameters indicated below.

• 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

Dim. (inches)	1	2	3	4
Н	.85	.98	1.22	1.61
I	.84	.97	1.13	1.44
J	.13	.13	.15	.15





Wiring Instruction

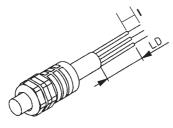
Stripping Instructions

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	4
layouts		ndifferent	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	Ø over insulation > 2 mm \Rightarrow I = 5 (> .08" \Rightarrow I = .20") Ø over insulation > 2 mm \Rightarrow I = 7 (> .08" \Rightarrow I = .27")

• With stamped and formed crimping contacts

Contact diameter	I = Wire stripping lenght
#16	4 mm (.157")
#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



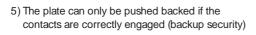
 With the thumb and index finger, squeeze the retainer plate flaps and pull backwards : the plate is then in the unlocked position.

2) Fully insert the wired contact in the cavity.



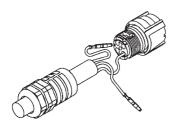
3) Repeat the same procedure for the other contacts.

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.)



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.
- 2) 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.)



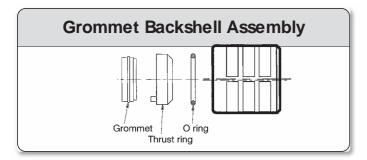
1) Manually, fully screw the adaptor on the connector, the hexagonal nut towards the rear.

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

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



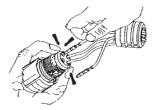
Note: In the case of an elbow backshell, it is possible to adjust the position according to the angle desired.



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.

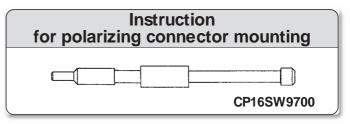


Heat shrink boot

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

6

Degree of protection in accordance with CEI 529, DIN 40050, NF EN 60529 First index Second index Third index Protection against accidental or inadvertent contact. Prot. against ingress of foreign bodies. Protection against mechanical Protection against ingress of water strength Inde Test 0 Protection against diagonal drop water drips (up to < of 15° of vertical) 0 No protection No protection 2 0 l₽x0 #P0 No protection Troisièm chiffre Test #P1 BallØ2inch Protection against vertical drop water drips. Impact strength : 0,225 J 1 1 UUU Π 1 250 g Protection against contact with any large area by hand, protect, against large solid foreign bodies with $\emptyset > 2$ inch. Ball Ø.5 inch /₽2 Test finger Impact strength : 0,5 J l₽x1 i₽×2 2 15 4 3 Protection against diagonal drop water drips (up to < of 60° out of vertical) Protection against splash water from all directions 3 250 g Protection against contact with the fingers prot. against solid foreign bodies with \varnothing 0.5 inch 7.8 incl 123 Ø 0.1 inch 'xx 3 3 Impact strength : 2 J Ø Protection against tools wires or similar objects with $\varnothing > 0.1$ inch, prot. against small foreign solid bodies with $\varnothing > 0.1$ inch $|P \times 4|$ IP x 3 500 g 5 5 Protection against water 1P4 15.7 inc Steel wire Ø .04 inch (out of a nozzle) from all directions 4 Impact strength : 6 J Protection against tools wires or similar objects with $\emptyset > .04$ inch, prot. against small foreign solid bodies with $\emptyset > .04$ inch ⊮×5 Full protection against accid. or inadv. contact. Prot. against interio injurious dust deposits. 1,5 kg 6 Proof against temporary flooding 7 5.7 ind Talc 5 IP xx 7 Impact strength : 20 J ⊮×6

8 Water tight 7 Protection against water plunging 9 Proof against temporary W water plunging Proof against water pressure $l^{D} \times 7$ Total protection against accid. or inadv contact. Protection against of dust. EXAMPLE : IP66-5 means: - Total protection against dust Proof against temporary flooding
Proof against impact strength of 2 Joule

5 kg

15.7 incl



Conversion Table

(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
<u>1.1</u> 1.2	0.04334	10.5	0.41370
1.2	0.04728	11.0 11.5	0.43340
1.3	0.05122 0.05516	12.0	0.45310
1.5	0.05910	12.0	0.47280
1.6	0.06304	13.0	0.49230
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	24.0	0.94560
3.9	0.15366	24.5	0.96530
4.0	0.15760	25.0	0.98500
4.1	0.16154	25.5	1.00470
4.2	0.16548	26.0	1.02440
4.3	0.16942 0.17336	26.5	1.04410
4.4		27.0	1.06380
<u>4.5</u> 4.6	0.17730 0.18124	27.5 28.0	1.08350
4.0			
4.7	0.18518 0.18912	28.5 29.0	1.12290
4.0	0.19306	29.0	1.14200
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
		37.5	

(mm)	(inches)	
38.0	1.49720	
38.5	1.51690	
39.0	1.53660	
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	1.75330	
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	1.97000	
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	
62.0	2.44280	
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	

(۴)
- 94
- 85
- 67
- 58
- 40
32
98.6
176
257
302
338
392
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.

80.0

85.0

90.0

100.0

200.0

400.0

600.0

800.0

1000.0

1200.0

1600.0

2000.0

3200.0

3.15200

3.34900

3.54600

3.94000

7.88000 15.76000

23.64000

31.52000

39.40000

47.28000

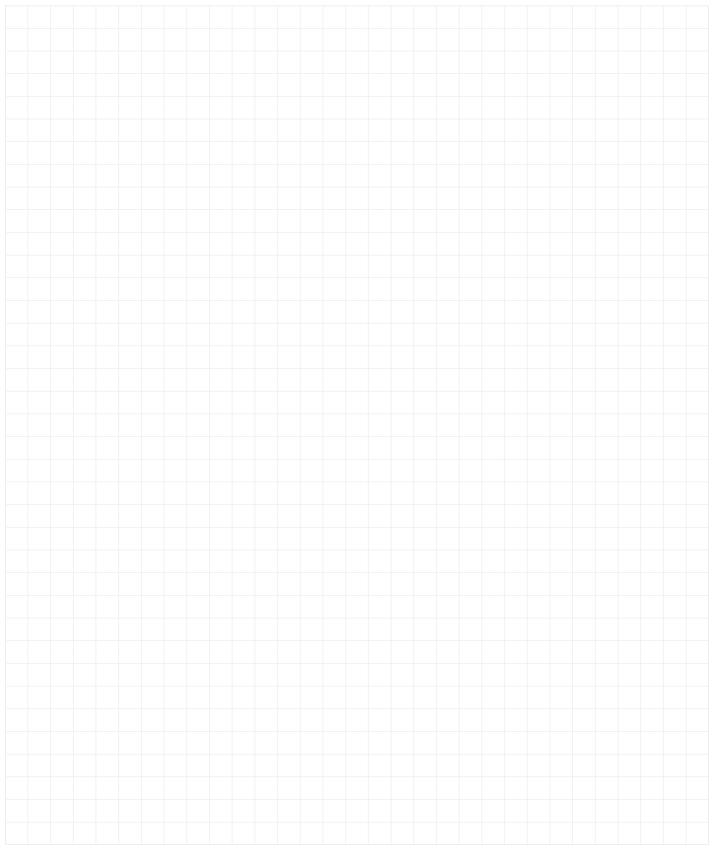
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126.08000

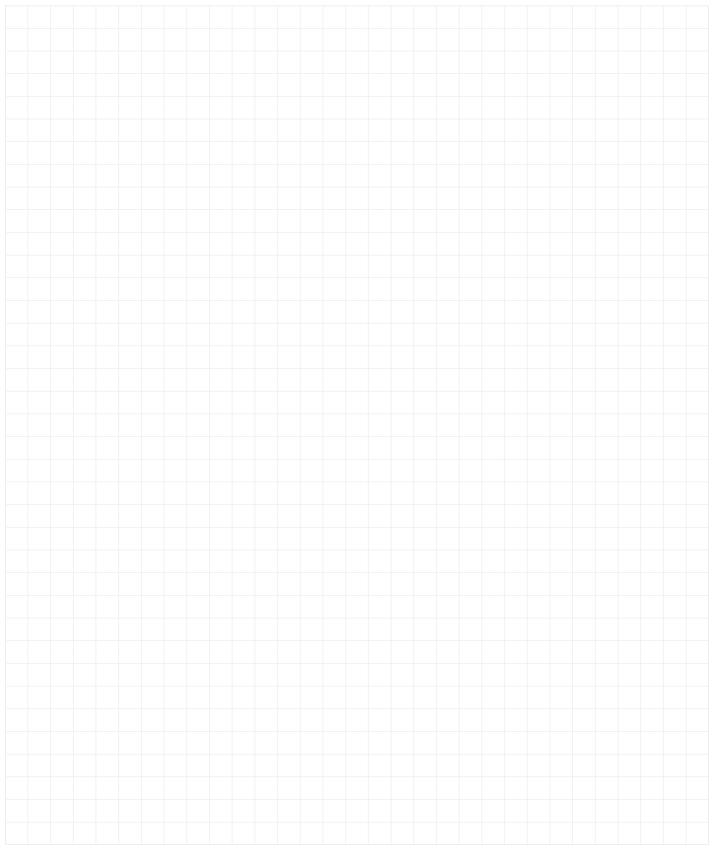


Notes





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