

# **SL 61**

#### **Industrial Circular Connectors**

NEW

Cadmium-free versions

(nickel plating)

- Closed entry female contacts
- Inserts moulded in Alkyde
- Trapezoidal thread screw-locking
- Two parts backshell ensuring simple wiring and maintenance
- Adaptable capacity cable clamp
- Gold plated turned contacts
- Reinforced locking ring
- Solder contacts
- Please contact us for other contact terminations
  - for crimping
  - for soldering with earth protection
- Size 40 one piece backshell (please consult us)
- Working temperature:
  - 40°C / + 85°C
- Current capability:7.5, 10, 25 and 50 Amps
- Operating voltage: to 600 Volts
- Cadmium-free versions (Ni)
- UL recognition n° E160967(01) for 419AR layout
- Large selection of insert arrangements
- Robust and reliable
- Stock items





Principally aimed at I/O applications, the SL61 connectors are available in 4 types of housing (10, 20, 30 and 40) and 26 arrangements from 2 to 61 mixed solder contacts.

They are available in the following configurations:

- Plugs
- Receptacles
- Line mount receptacles
- Receptacles with locking ring

Connectors are made of aluminium alloy which provides them excellent reliability and robustness. When application requires greater performances, the sealing can be improved by the use of a sprayproofing sleeve.

# Robustness and reliability

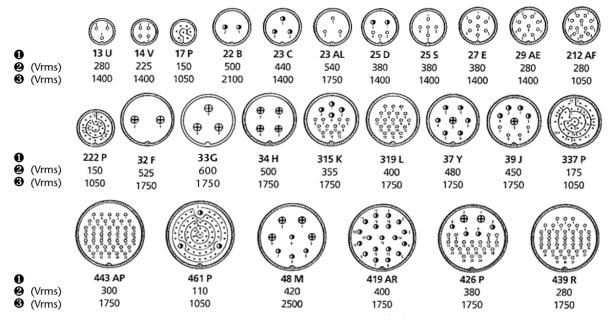
Automation

- Instrumentation
- Robotics
- Power distribution
- Transport
- Entertainment (brand-lights)

.9 TS



#### **Contact arrangements**



Contact arrangement

Working voltage

Test voltage at sea level

Nominal current	Contact resistance	Maximum permissible wire dia.
• 7,5 A ○ 10 A Φ 25 A ⊕ 50 A	$\leq 5 \ m \ \Omega$ $\leq 2 \ m \ \Omega$	0.75 mm² 1.75 mm² 5.1 mm² 13 mm²

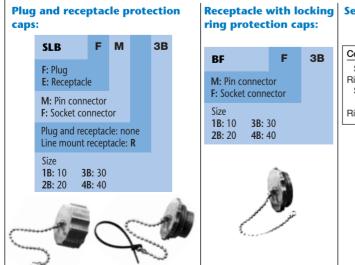
REMARK: the second and the third digit of the contact arrangements (if the third exists) indicate the number of contacts in the arrangement. Ex.: 426P = 26 contacts.

#### Straight or right-angle backshell

	Backshell reference											
Connector		straight		right-angle								
size	black (non conductive)	nickel (conductive)	green cadmium (conductive)	black (non conductive)	nickel (conductive)	green cadmuim (conductive)						
4.0	,	,		,	, ,	,						
10	47377N	47377NI	21458N	47381N	47381NI	21462N						
20	47378N	47378NI	21459N	47382N	47382NI	21463N						
30	47379N	47379NI	21460N	47383N	47383NI	21464N						
40	47380N	47380NI	21461N	47384N	47384NI	21465N						

- Straight or right-angle backshells are delivered with different clamping pads.
- Green backshells (conductive finish) are delivered with metallised clamping pads.

#### **Accessories**



#### **Sealing sleeve:**

Connector	Size	Ref.
Straight	10	43458
Right-angle	10	43473
Straight	<b>r</b> 20	43456
or	₹ 30	44666
Right-angle	L 40	43457



for plug or line mount receptacle

#### **Adaptator for flexible conduit** and PG:

	Connector size	PG thread
SL RF 209N	20	9
SL RF 211N	20	11
SL RF 313N	30	13
SL RF 316N	30	16
SL RF 416N	40	16
SL RF 421N	40	21
SL RF 429N	40	29

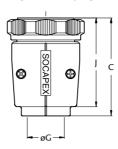


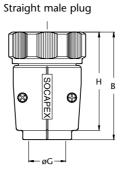


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#### Straight plug

Straight female plug



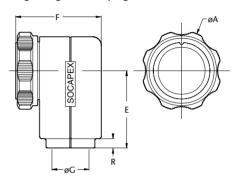


Right angle plug

SOCAPEX

Right-angle male plug

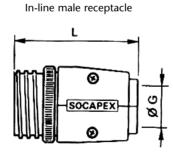
Right-angle female plug



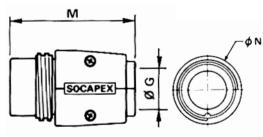
size	0 ø A - 0,2 (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)		G (mm)		H (mm)	J (mm)	K (mm)	L (mm)	M (mm)	N (mm)	R (mm)	S (mm)	T (mm)	W (mm)	Y (mm)
10	27.5	61.9	52.9	47.9	45.5	38.9	5-7	7-9		57.4	48.4	21	53.5	57.9	24	4.5	16.5	3.2	19	25
20	36.5	66.5	59.8	55.5	51.5	48.8	6-8	9-11	12-14	62	55.3	28.1	61	59.8	32	4.5	25.5	3.5	24	31
30	51.5	88.5	80.8	68.5	55.5	60.8	10-12	13-16	17-20	82	74.3	42.2	82	80.8	45	6.5	35.5	3.5	34	46
40	64.5	86.5	78.8	76.5	62.5	68.8	14-18	19-23	24-30	79	71.3	52.2	80	79.6	54	7.5	47	3.5	41	56

G: flanges equipped with different clamping pads delivered with the backshells.

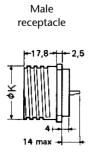
# In-line receptacle

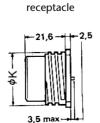


In-line female receptacle



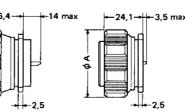
#### Receptacle





Female

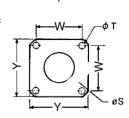




Female receptacle

with locking ring

Square flange of receptacle



#### Plug and line mount receptacle (Bright cadmium or nickel plated)

SL series SL	В	F	R	426 P	-
Plug or line mount receptacle					
Type of contact: Male M Female F					
Plug: none Line mount receptacle: R					
Contact arrangement (see page 2)					
Add "NI" for cadmium-free versions	(nickel)				

#### Plug and backshell set

SL series SL	F	M	D	426 P	-
F: plug or line mount receptacle					
Type of contact:  Male M Female F					
D: plug + straight backshell DR: line mount receptacle + backshell C: plug + right angle backshell					
Contact arrangement (see page 2)					
Add "NI" for cadmium-free version	s (nickel)				

## **Receptacle and receptacle with locking ring** (Bright cadmium or nickel plated)

SL series	SL	E	M	-	426 P	-	-
Receptacle or recepta	cle with locking	g ring: E					
Type of contact: Male M Female F							
Receptacle: none Receptacle with locking	ng ring: E						
Contact arrangement	(see page 2)						
Add "MA" for tin plate	ed retention rin	ıg (groun	ding)				
Add "NI" for cadmium	n-free versions (	(nickel)					

Comment: Pannel gasket deliver with the receptacle

# Do not hesitate to contact us for further information

## **Amphenol**

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