

Industrial Circular Connectors

ROHS VERSIONS

- Black coating
- Nickel plating



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

- 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

configurations:

Closed entry female contacts

Two parts backshell ensuring simple wiring and maintenance

Adaptable capacity cable clamp

Gold plated turned contacts

Reinforced locking ring

Trapezoidal thread screw-locking

Solder contacts

MAIN CHARACTERISTICS

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

ROHS versions available

- black coating (non conductive)

- nickel plating (conductive)

• UL recognition n° E160967(01)

• Large selection of insert arrangements

Robust and reliable

Stock items



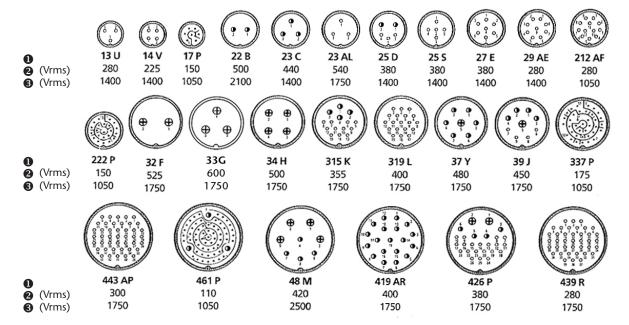
Transport

Entertainment (brand-lights)

Amphenol

Downloaded from Arrow.com.

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 mm ² 1.75 mm ² 5.1 mm ² 13 mm ²

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

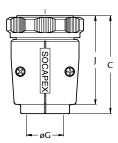
- * Black and Nickel backshells are ROHS compliant
- Straight or right-angle backshells are delivered with different clamping pads.
- Green backshells (conductive finish) are delivered with metallised clamping pads.

Accessories



Straight plug

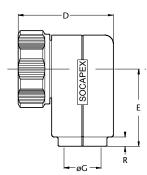
Straight female plug



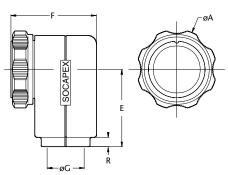


Right angle plug

Right-angle male plug



Right-angle female plug

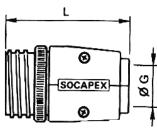


size	0 ø A - 0,2 (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)		G (mm)		H (mm)	J (mm)	K (mm)	L (mm)	M (mm)	N (mm)	R (mm)	S (mm)	T (mm)	W (mm)	Y (mm)
10	27.5	61.9	52.9	47.9	45.5	38.9	5-7	7-9		57.4	48.4	21	53.5	57.9	24	4.5	16.5	3.2	19	25
20	36.5	66.5	59.8	55.5	51.5	48.8	6-8	9-11	12-14	62	55.3	28.1	61	59.8	32	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

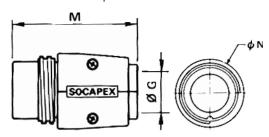
In-line male receptacle



In-line female receptacle

Female receptacle

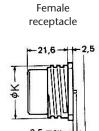
with locking ring



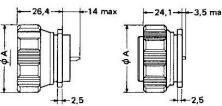
Receptacle

Male

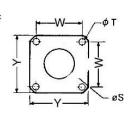
receptacle







Square flange of receptacle



Plug and Inline receptacle (backshell sets included)

ROHS Part Numbers: nickel plated or black coated

SL series SL M D 319L D: Black coating Blank: Nickel plating F: plug or inline receptacle Type of contact: M: Male F: Female D: plug + straight backshell DR: inline receptacle + straight backshell C: plug + right angle backshell Contact Arrangement (see page 2) Blank: Black coating NI: Nickel plating

Non ROHS Part Numbers: clear cadmium plated

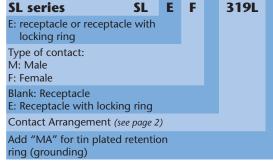
SL series	SL	F	M	D	319L	
F : plug or inline rece	ptacle					
Type of contact: M: Male F: Female						
D: plug + straight bac DR: inline receptacle - C: plug + right angle	+ straight l	oacks	shell			
Contact Arrangement	t (see page 2	2)				

Panel mount receptacle and receptacle with locking ring

ROHS Part Numbers: nickel plated or black coated

SL series SL D Е 319L D: Black coating Blank: Nickel plating E: receptacle or receptacle with locking ring Type of contact: M: Male F: Female Blank: Receptacle E: Receptacle with locking ring Contact Arrangement (see page 2) Blank: Black coating NI: Nickel plating Add "MA" for tin plated retention ring (grounding)

Non ROHS Part Numbers: clear cadmium plated



Comment: Panel gasket is delivered with the receptacle

Comment: Panel gasket is delivered with the receptacle

Body of plug and inline receptacle

With those part numbers the straight and right angle backshells are not included. To define part numbers of backshells, please to consult page 2.

ROHS Part Numbers: nickel plated or black coated

SL series

D: Black coating
Blank: Nickel plating
Body of plug or inline receptacle

Type of contact:

M: Male
F: Female
Blank: Body of plug
R: Body of inline receptacle

Contact Arrangement (see page 2)

Blank: Black coating
NI: Nickel plating

Non ROHS Part Numbers : clear cadmium plated

SL series	SL	В	M	319L
Body of plug or inline receptacle				
Type of contact: M: Male F: Female				
Blank: Plug R: inline receptacle				
Contact Arrangement (se	e page 2	?)		

Do not hesitate to contact us for further information

Amphenol Socapex

948, Promenade de l'Arve - BP 29 F - 74311 Thyez Cedex

Tel.: +33 (0) 4 50 89 28 00 - Fax: +33 (0) 4 50 96 29 75 http://www.amphenol-socapex.com

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Circular MIL Spec Tools, Hardware & Accessories category:

Click to view products by Amphenol manufacturer:

Other Similar products are found below:

0113-201-2025 600-079-06 600-146-06 M10-101982-143 M10-101982-163 M10-101983-183 M10-150912-083 M10-454396-008 602GB18808 CS3102A-22-14PW M2887615-CD 627-009 M38999/9-19B 630A007NF083A 630B007M051A 630BJ003NF032H 637-149NF04B M39029/29-215 6408-203V-09273 6426-201-11343 650FS002NF16 660-008NF14S7-01 660-009M22H8-03 660-013NF19U6-210 660-015NF10S5-01 660-015NF14R3.5-01 660-023NF19H6-19 660-024NF11S12-01 660-024NF11S3-01 660-024NF17S4-109 660-050XM17F4-01 660-068NF25R6-30G 660-070M23S8-04 660-073MTCH9-20 M83723/61-18W M83723/61-218R M83723/61-224W 667-084-23C 667-084-35C 667-224NF16 687-697NF-1 M85049/94-10-A M85049/96-7-A M855282-10A01A M85528/2-10B M85528/2-10A01A M85528/2-22A01A M85528/2-22AA 710HS460NF2508