



Mechanical characteristics

- Crimp removable gold plated on nickel underplate machined contacts
- 12 insert arrangements which accept contact gauges AWG 20, 16, 12. in the four different shell sizes 10, 20, 30 & 40
- Temperature range -55°C to 125°C
- Clear cadmium plated, nickel plated and black coated aluminium molded shells
- Mating by screwing system
- Strain-relief integrated to the backshell
- Neoprene inserts
- Reinforced mating screw
- ROHS versions:
 - Black coating (Non conductive)
 - Nickel plating (conductive)
- Performances according to NFF61030

Electrical characteristics

Contacts caracteristics

Contact gauge AWG	20	16	12
Contact diameter (mm)	1	1.5	3
Nominal current (A)	7.5	13	25
Contact resistance (Ohm)	≤ 0.005	≤ 0.002	≤ 0.002
Contact retention in the insert (N)	≥ 30	≥ 40	≥ 45

Contact arrangements electrical caracteristics

Test voltage at sea level (Vrms)	1500	2300	2800
Contact arrangements	14V-17P-22B 23C-212AF-38J 315K	27E-337P 439R	319L-419AR



SLX series are derived from the standard 6 SL series, and have the particularity to DESCRIPTI use machined contacts with crimp barrels. The one part Neoprene insert provides a use in a temperature range from -55°C to 125°C, the possibility to change the contacts for reparation, and an higher test voltage capability. 12 different contacts arrangements are available which include different contact gauges (20, 16, 12) in the four different shell sizes 10, 20, 30 & 40. SLX series panel drilling is the same as for SL series and SLX series connectors are intermatable with SL series connectors (SLX Plug with SL Receptacle and vice versa).

Crimp removable contacts 125°C

- Instrumentation
- Robotics

IONS

APPLICATI

- Power supplies
- Transportation
- Entertainment (brand-lights)



Contacts and wires

Contact gauge	Crimp Internal	barrel Depth	Pin diameter	AWG gauge	Section mm² mini maxi		Diameter over conductor (mm)		Maxi diameter
AWG	diameter	in mm	(mm)				mini	maxi	over sleeving
	in mm								(mm)
12	2.5	7.5	3	14-12	1.80***	3.30	1.7	2.45	4.2
16	1.95	6.4	1.6	20 -> 14	0.60*	1.91	1	1.9	2.8
20	1.35	4	1	24 -> 18	0.22**	0.93	0.6	1.3	2.4

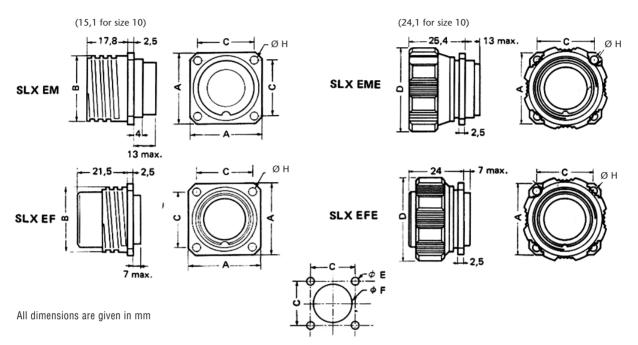
 * The use of a 800629 reducing sleeve is necessary for cable section less than 0.60 mm^{2}

** The use of a 800612 reducing sleeve is necessary for cable section less than 0.22 mm²

*** The use of a | 900092 reducing sleeve is necessary for cable section less than 1.80 mm² for # 16 to 20

900093 reducing sleeve is necessary for cable section less than 1.80 mm² for # 20 to 24

• Dimensions of the connectors

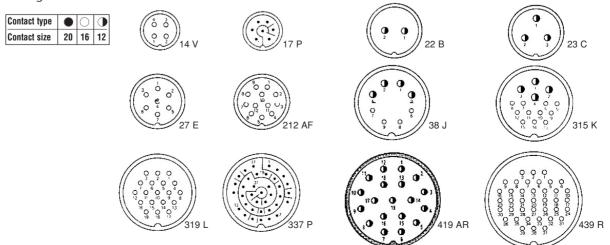


For more details about dimensional characteristics, please refer to standard SL data-sheet. Some dimensions mentioned bellow regarding insulators are specific to SLX series.

Receptacle size	A (mm)	Diam. B (mm)	C (mm)	Diam. D (mm)	Diam. E (mm)	Diam. F (mm)	Diam. H (mm)
10	25	21	19	28	3.2	16.5	3.2
20	31	28.1	24	37	3.5	25.5	3.5
30	46	42.2	34	52	3.5	35.5	3.5
40	56	52.2	41	65	3.5	47	3.5

Contacts insert arrangements

Mating face view of the male insert



Amphenol

Straight or right-angle backshell

		Backshell reference									
Connector size	black* (non conductive)	(non conductive) (conductive) (conductive) (r			nickel* green cadmium black* nickel* g						
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					

* Black and Nickel Backshells are ROHS compliant.

- Straight or right-angle backshells are delivered with different clamping pads.

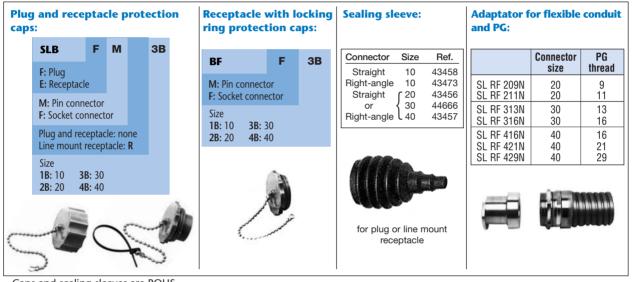
- Green backshells (conductive finish) are delivered with metallised clamping pads.

Contacts as spare parts*

Contact gauge AWG	12	16	20
Part-number for one pin	21713	800660	800650
Part-number for one socket	21728	800664	800654

* For arrangement 419 AR and 23C: Part-number for one pin: 35941 Part-number for one socket: 35970

Accessories



- Caps and sealing sleeves are ROHS.

Cabling tools

Crimping tools

- Crimping pliers: 809857 (Mil. P/N: M22520/1-01)
- Positioner: 21770
- For arrangement 419 AR and 23C: TP943
- Contacts insertion and removal

• Controlling jauge: 809907 (Mil. P/N: M22520/3-1) (Selector number: 4)

Contacts	Insertion tool P/N	Removal tool P/N
# 12: Pin	141900	21746
# 12: Socket	141900	21745
# 16: Pin	48680	809731
# 16: Socket	48680	809732
# 20: Pin	39048	809729
# 20: Socket	39048	809730

Cabling process

Crimping process

Place the positioner in the pliers.

Choose the selector number on the positioner according to the contact size to crimp.

Strip the wire end (7.5mm for size 12 contact / 6mm for size 16 contact / 4mm for size 20 contact).

Insert the wire in the crimp barrel of the contact and check through the inspection hole of the contact that wire is well-placed.

Place the contact with the wire into the pliers until the stop. Completely close the tool and after, let it open itself.

Visually check if crimping is correct and by the inspection hole of the contact if the wire is well-placed in the crimp barrel. Contact insertion

Insert the wired contact in the groove of the tool, taking care that the extremity of the tool touches the shoulder of the contact. Insert the contact in its cavity from wiring side and steadily push the tool along the axis of the cavity until the contact locks home.

Carefully withdraw the tool , applying a forward pressure on the wire.

Pull on the wire to check that the contact is correctly locked.

Contact removal

Insert the tool from the mating side and push it along the contact axis until contact unlocks.

Pull the contact out from the rear of the connector.

Plug and Inline receptacle (backshell sets included)

ROHS Part Numbers : nickel plated or black coatedX

SLX series	SLX	D	F	Μ	D	319L
D: Black coating Blank: Nickel plating						
F: plug or inline recept	acle					
Type of contact: M: Male F: Female						
D: plug + straight bacl DR: inline receptacle + C: plug + right angle b	straight backs	hell				
Contact Arrangement	(see page 2)					
Blank: Black coating NI: Nickel plating						

Non ROHS Part Numbers : clear cadmium plated

SLX series	SLX	F	Μ	D	319L
F : plug or inline rec	eptacle				
Type of contact: M: Male F: Female					
D: plug + straight b DR: inline receptacle C: plug + right angl	e + straight k	backs	hell		
Contact Arrangeme	nt (see page 2)			

Panel mount receptacle and receptacle with locking ring

ROHS Part Numbers : nickel plated or black coated

SLX series	SLX	D	Е	F	319L	
D: Black coating Blank: Nickel plating						
E: receptacle or recepta	cle with loc	king r	ing			
Type of contact: M: Male F: Female						
Blank: Receptacle E: Receptacle with locki	ng ring					
Contact Arrangement (see page 2)					
Blank: Black coating NI: Nickel plating						
Add "MA" for tin plated ring (grounding)	d retention					

Non ROHS Part N	lumbers : cl	ear	cadn	niu	m plated	
SLX series	SLX	E	F		319L	
E: receptacle or reco locking ring	eptacle with					
Type of contact: M: Male F: Female						
Blank: Receptacle E: Receptacle with I	ockina rina					
Contact Arrangeme)				
Add "MA" for tin p ring (grounding)	lated retentio	n				

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

Comment : Panel gasket is delivered with the receptacle

SLX series	SLX	D	В	Μ	319L
D: Black coating Blank: Nickel plating					
Body of plug or inline re	eceptacle				
Type of contact: M: Male F: Female					
Blank: Body of plug R: Body of inline recept	acle				
Contact Arrangement (see page 2)				
Blank: Black coating NI: Nickel plating					

Non ROHS Part Num	hbers : c	lear	cadn	niu	m plated
SLX series	SLX	В	Μ		319L
Body of plug or inline receptacle					
Type of contact: M: Male F: Female					
Blank: Plug R: inline receptacle					
Contact Arrangement	(see page 2	?)			

Do not hesitate to contact us for further information

Amphenol Socapex

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