

Derived from SL Series industrial connectors with ground contact

- First mate last break earth (FMLB) contact bonded to the connector shell.
- Conductive plating on backshells to ensure electrical continuity through in the cable assembly.
- Metallised cable clamps with adaptable capacity.
- Angular rotation of the contact insulator to prevent SLS connectors mating with corresponding SL or derived SL series.
- Trapezoidal thread screw-locking.
- Connector shell in aluminium which provides an excellent strength.
- 1/2 shell backshell ensuring simple wiring and maintenance.
- Nominal current: 10, 25 and 50 A.
- Nominal voltage: to 600 Vrms.
- Inserts moulded in Alkyde.
- Closed entry female contacts.
- Rugged mating nut.
- Gold plated machined contact with solder terminations.



The SLS circular connectors are principally aimed at I/O applications, which require a total security in use.

DESCRIPTI Derived from SL series, SLS connectors have the particularity to provide an earth contact bonded to the

connector shell.

SLS connectors are available as SL connectors in 4 shell sizes (10, 20, 30 and 40) in 11 contact arrangements from 3 to 26 mixed brazed contacts.

Additionally, their metallised cable clamps offer a total security and an outstanding EMI/RFI capability.

Shells are available in the following configurations :

- Straight or right angle plug
- Square flange receptacle
- In-line receptacle
- Square flange receptacle with mating nut

One FMLB earth contact bonded to the shell

- Automation Instrumentation ICATI Robotics Power
 - Nuclear equipment



CHARACTERISTICS

Contacts dimensional characteristics

Contact type	Solder bucket inside diam (mm)	Solder bucket depth (mm)	Max wire cross. section (mm²)
10 A	1,7 minimum	6 minimum	1,75
25 A	3,1 minimum	8 minimum	5,1
50 A	4 minimum	10 minimum	9

0

2

0

2

145

8

8

8

8 8

Available contacts arrangements

SLS arrangements	Corresponding SL arrangements
14 S	14 V
23 S	23 C
27 S	27 E
212 S	212 AF
34 S	34 H
315 S	315 K
319 S	319 L
419 S *	419 AR
48 S	48 M
426 S	426 P

* This arrangement is available only in the following versions: BF, BMR, EFE, EM.

The arrow indicates the contact bonded to the shell.

Contact type	0		\oplus
Pin's diameter (mm)	1.5	3	5
Nominal current (A)	10	25	50
Contact resistance (Ω)	≤ 0.002	≤ 0.002	≤ 0.002

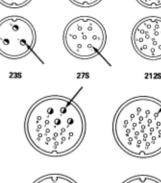
Straight or right-angle backshell

Accessories

Standard olive drab cadmium backshells									
Connector size	Shell reference								
	Straight Green	90° angled Green							
10	21458 N	21462 N							
20	21459 N	21463 N							
30	21460 N	21464 N							
40	21461 N	21465 N							

Only the conductive backshells are compatible with SLS Series. Consult us for Nickel plated version.

Plug and receptacle protection caps:				Receptacle with locking ring protection caps:		Sealing sleeve:		Adaptator for flexible conduit and PG:			
SLB	F	М	3В	BF	F	3 B	Connector Size Straight 10	Ref. 43458		Connector size	PG thread
F: Plug E: Receptacle				M: Pin conne F: Socket con			Right-angle 10 Straight 20	43473 43456	SL RF 2091 SL RF 2111		9 11
M: Pin connec F: Socket conn				Size 1B: 10 3B	: 30		or { 30 Right-angle 40	44666 43457	SL RF 3131 SL RF 3161		13 16
Plug and recep Line mount rec				2B: 20 4B	: 40		Allen.		SL RF 416 SL RF 421 SL RF 429	J 40	16 21 29
Size 1B: 10 2B:	20 3B :	30	4B: 40		3		an			-	1222
Q.		C	F		/		for plug or line mount recep				



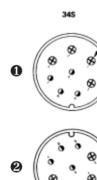
3155

4195







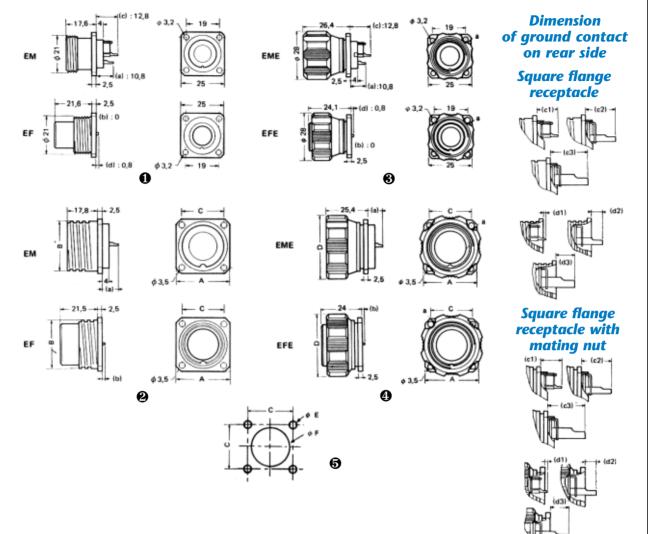


485

Male connectors, mating face

Pemale connectors, mating face

Dimensional characteristics



Dimensions (in mm)

Receptacle Figure ①: size 10 Figure ②: sizes 20-30-40

Receptacle with locking ring Figure 🕃: size 10 Figure 💽: sizes 20-30-40

a : Slot enabling screw driver to be passed during mounting of the receptacle with locking ring.

Dimension of contact terminations on rear side:

The neoprene gasket supplied with the receptacle is not shown in the figures ① to ②.

• Gasket thickness : 1.5 mm.

Panel drilling See figure ❺. Mounting from the front of the panel.

Standard contacts:

Dimension (a): pins Dimension (b): sockets

Contacts bonded to the shell:

Dimensions (c) (c1) (c2) (c3): pin Dimensions (d) (d1) (d2) (d3): socket (c) and (d) dimensions are not mentioned in the chart but are directly written on the figures.

Please refer to Standard SL data sheet for plugs or in-line receptacles dimensions.

● to ● receptacle dimensions

Receptacle sizes	Dimensions (mm)									
	Α	ØВ	C	ØD	ØΕ	Ø F min				
10	25	21	19	28	3.2	16.5				
20	31	28.1	24	37	3.5	25.5				
30	46	42.2	34	52	3.5	35.5				
40	56	52.2	41	65	3.5	47				

● to ● figures dimensions

Contact	Dimension of ground contact on rear side sizes 20-30-40* (mm)									
types	Standard contacts Contact bonded					ed to th	to the shell			
	(a)	(b)	(c1)	(c2)	(c3)	(d1)	(d2)	(d3)		
○ : 10 A	10	0	12			1,5				
• : 25 A	12	1,5		17			6,5			
⊕ : 50 A	14	3,5			21			10,5		

Amphenol

Connectors

In-line receptacle or plug body

SLS series	SLS	В	М	-	4	26	S
Plug or in-line-recepta	cle						
Type of contacts: M: Pin F: Socket							
For in-line-receptacle	only: R						
Shell size: 1: 10; 2: 20; 3: 30; 4: 40							
Number of contacts o	f the arrang	jement					
Arrangement details							

Plug and backshell set

SLS series	SLS	F	М	D	4	26	S
F: Plug or line mount rece	eptacle						
Type of contacts: M : Male F : Female							
D : Plug + straight backsh DR : Line mount receptach C : Plug + right angle bac	e + backshell						
Shell size: 1: 10; 2: 20; 3: 30; 4: 40							
Contacts number of a	rrangement						
Arrangement particula	ıry						

Comment: SLS backshell is available only with olive drab cadmium version conductive and metallized cable clamp.

Square flange receptacle or square flange receptacle with mating nut

SLS series	SLS	E	Μ	-	4	26	S
Receptacle or receptacle with Ma	ating nut: E						
Types of contacts: M: Pin F: Socket							
For receptacle with locking r	ing only: E						
Shell size: 1: 10; 2: 20; 3: 30; 4: 40							
Number of contacts for the a	arrangemen	t					
Arrangement details							

Do not hesitate to contact us for further information

Amphenol

E102/B The information given in this document are as a guideline only. We reserve the right to modify our products in any way we deem necessary. Any duplication is prohibited, unless approved in writing. Médiasquare +33 (0) 1 46 31 5 56

Amphenol Socapex

Mil/Aero & Industrial Business Unit 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 19 41 http://www.amphenol.com

Sales office

Tel.: +33 (0) 1 49 05 30 00 - Fax: +33 (0) 1 49 05 30 43