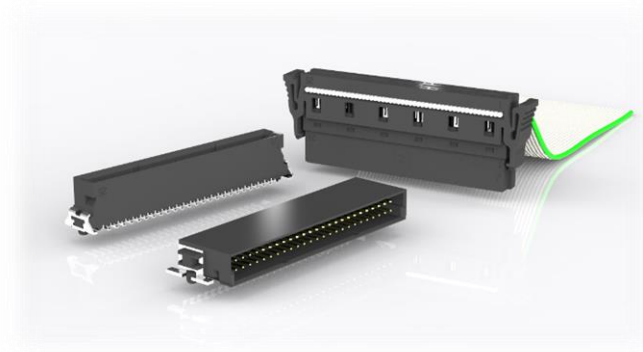


Specifications

■ Introduction



LS Signalite series 1.27 mm dual row connector provide High reliability board to line connection solution:

- Compact structure design, with high current transmission capacity, excellent heat resistance and vibration resistance, and function of avoiding misinsertion.
- Excellent terminal design ensures stable current transmission.

Signalite series connector is designed base on VW 75174 (LV 214) /USCAR technical requirements for vehicle connector, It is mainly suitable for new energy vehicle (NEV) / electric vehicle (EV) powertrain and LED / laser headlamp etc. applications.

■ Feature

Description	Signalite 系列
Pitch	1.27mm
Rated current (Per contact)	< 1.3A (depends on cable and operation environment)
Pin quantity	12/16/20/26/32/40/50/68/80
Termination type	Male connector SMT. female connector IDC
Suitable wire/cable specification	Ribbon cable AWG 30 / 7
Variants	Vertical male connector type V
	Right angle male connector type A
	Female connector type A with 90° cable outlet
Latch	Double side unlock feature without unlocking tool

Signalite series

Linksolution

1.27 mm dual row board to wire connector

■ 技术参数

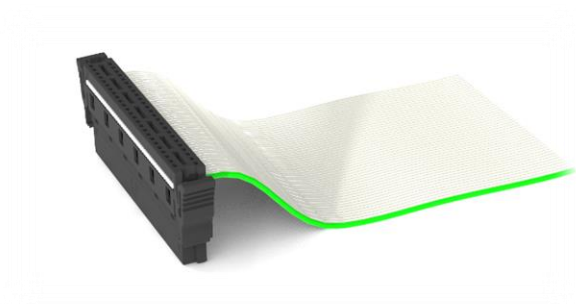
Parameter	Standard	Signalite
Temperature Range		-55°C~150°C
Current Rating (Single Pin)	IEC60512/GBT5095	1.3A 20°C
		0.8A 70°C
		0.3A 100°C
Creepage distance		>0.4mm
Rated voltage	IEC 60664	Suggest <150V
Dielectric strength (Pin to Pin)	IEC60512/GBT5095	>500V
Contact resistance	IEC60512/GBT5095	<25mΩ
Insulator resistance	IEC60512/GBT5095	>10000MΩ
Vibration half sine	IEC60512/GBT5095	20g/10~2000HZ (interrupt<7Ω,1us)
Shock	IEC60512/GBT5095	50g 11ms (interrupt<7Ω,1us)
Mechanical operation	IEC60512/GBT5095	500 times
Insertion & Withdrawal force	IEC60512/GBT5095	<1N per pin
Gauge retention force	IEC60512/GBT5095	>0.1N per pin
Hand soldering temperature	IEC 68-2-20	350°C, less than 3.5s
Reflow soldering temperature	JEDEC / J-STD-020	260°C, less than 30s
Coplanarity		<0.1mm
Connector plastic		LCP
CTI Value		175
UL flaming rating		UL94 V-0
Contact base material		Cu alloy
Termination area (PCB)		Sn plated
Mating area		Au plated
Environment compatibility		RoHS/REACH

Signalite series

Linksolution

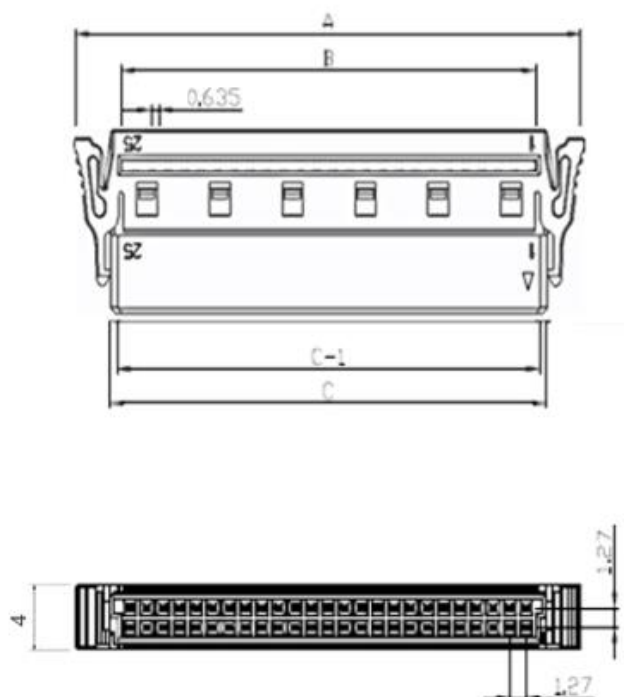
1.27 mm dual row board to wire connector

Female connector

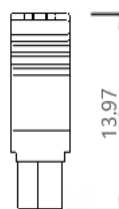


- 90° cable outlet(both side)
- IDC termination type
- Error proof feature, effectively protect the terminal
- Double side unlock feature without unlocking tool, Provide high reliable connection and plug flexibility.
- Tray Packing.

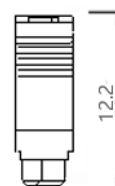
Dimensions



Initial state



Cable guide pressed on



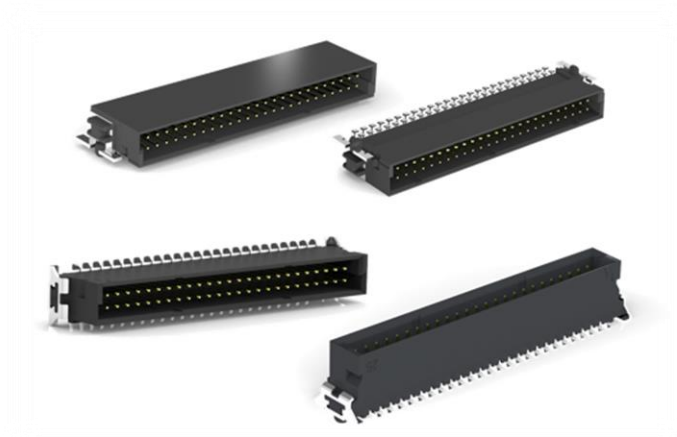
Pin No.	A	B	C
12	15.37	7.74	15.86
16	17.91	10.28	17.47
20	20.45	12.82	19.09
26	24.26	16.63	21.50
32	28.07	20.44	23.92
40	33.15	25.52	27.15
50	39.50	31.87	33.50
68	50.93	43.3	44.93
80	58.55	50.92	52.55

Signalite series

Linksolution

1.27 mm dual row board to wire connector

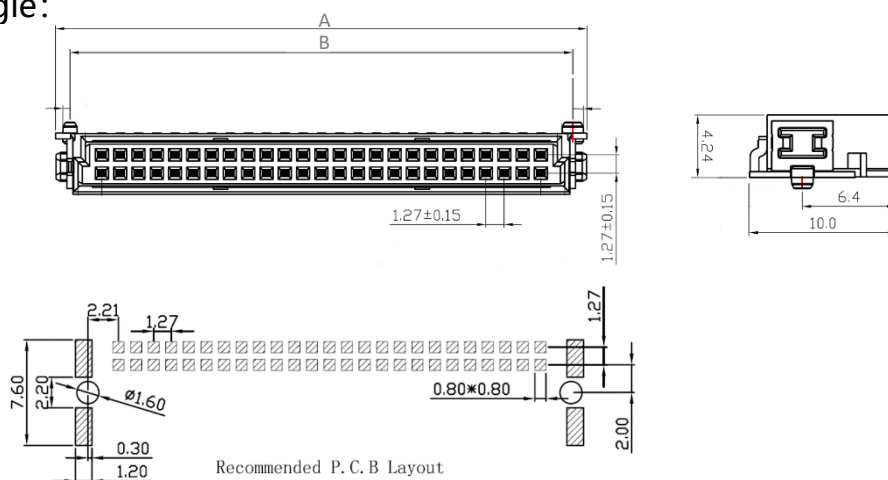
Male connector



- Powerlite offers 2 kinds of male connectors, Angle and Vertical
- SMT Termination
- Reflow soldering is suggested
- Reel package with tape for SMT

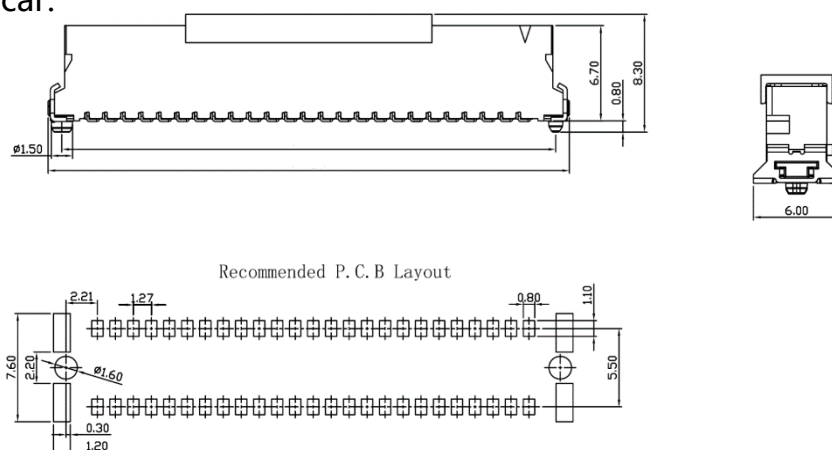
Dimensions

Angle:



Pin No.	A	B
12	12.76	10.77
16	15.30	13.31
20	17.84	15.85
26	21.65	19.66
32	25.46	23.47
40	30.54	28.55
50	36.89	34.90
68	48.32	46.33
80	55.94	53.95

Vertical:



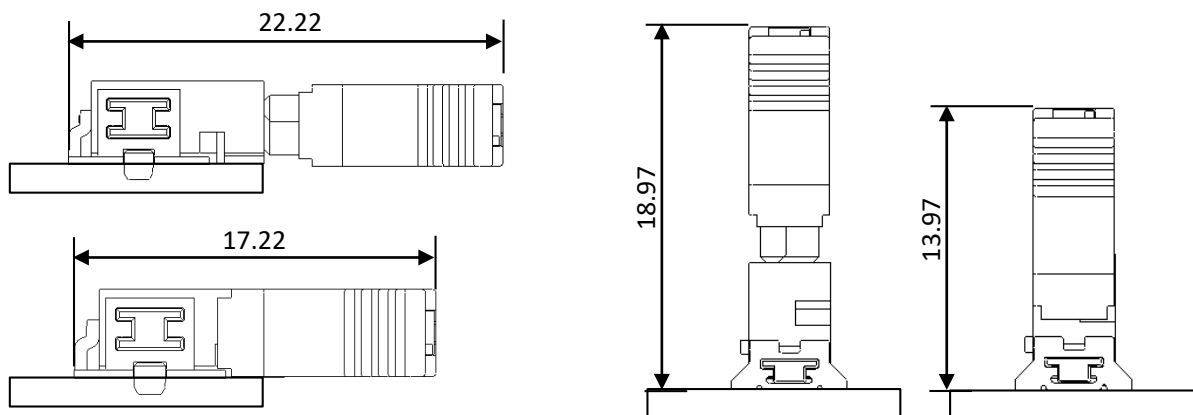
Pin No.	A	B
12	12.70	10.77
16	15.24	13.31
20	17.78	15.85
26	21.59	19.66
32	25.40	23.47
40	30.48	28.55
50	36.83	34.90
68	48.26	46.33
80	55.88	53.95

Signalite series

Linksolution

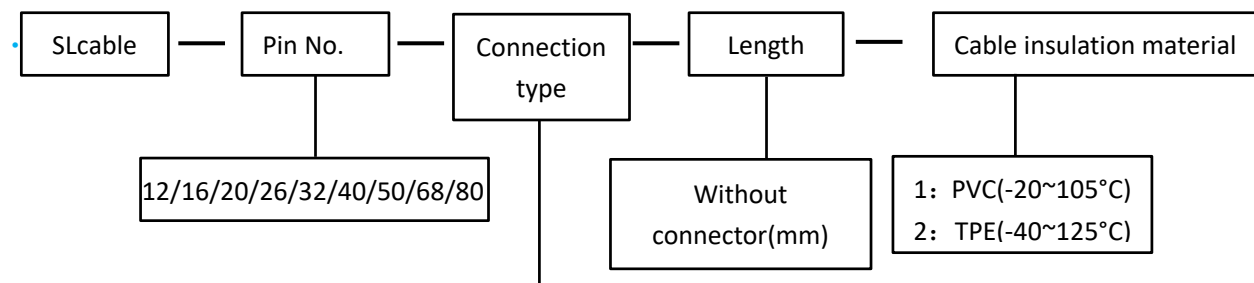
1.27 mm dual row board to wire connector

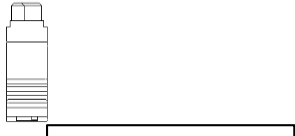
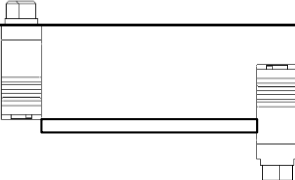
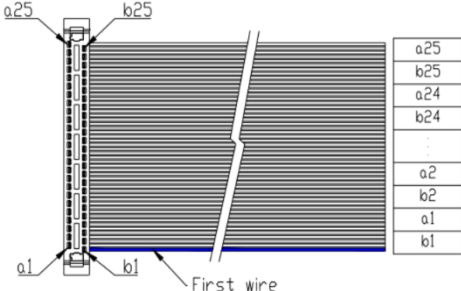
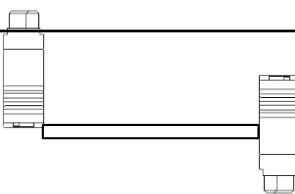
■ Matching state



■ Cable assembly type

Example: SLcable-12-5-100-2



 1	 2	 3									
 4	Pin&wire position map: first wire connector with pin b1 or Pina25  <table border="1" data-bbox="1005 1736 1074 1953"><tr><td>a25</td></tr><tr><td>b25</td></tr><tr><td>a24</td></tr><tr><td>b24</td></tr><tr><td>...</td></tr><tr><td>a2</td></tr><tr><td>b2</td></tr><tr><td>a1</td></tr><tr><td>b1</td></tr></table>  5		a25	b25	a24	b24	...	a2	b2	a1	b1
a25											
b25											
a24											
b24											
...											
a2											
b2											
a1											
b1											
PS: Above connection type just shows pin position one-to-one correspondence. Other connection type follow customer requirements.											

Signalite series

Linksolution

1.27 mm dual row board to wire connector

■ Order code

Signalite series code description:

Series	Female/Male	Variants	No. of pins	Plating	Special code
SL	X	X	XX	X	XX
①	②	③	④	⑤	⑥
①:	SL				
②:	Female/Male: F-Female, M-Male.				
③:	Variants: Male: A- right angle, V-vertical. Female: A-90 ° outlet, S-180 ° outlet				
④:	No. of pins				
⑤:	Plating spec code: 1-5u", 2-G/F。				
⑥:	Special code				

Male connector (Tape packing)							
Variants	No. of	Part No.	SPQ/pcs	Variants	No. of	Part No.	SPQ/pcs
Right angle male connector	12	SL-MA12101	700	Vertical male connector	12	SL-MV12101	400
	16	SL-MA16101	700		16	SL-MV16101	400
	20	SL-MA20101	700		20	SL-MV20101	400
	26	SL-MA26101	700		26	SL-MV26101	400
	32	SL-MA32101	700		32	SL-MV32101	400
	40	SL-MA40101	700		40	SL-MV40101	400
	50	SL-MA50101	700		50	SL-MV50101	400
	68	SL-MA68101	700		68	SL-MV68101	400
	80	SL-MA80101	700		80	SL-MV80101	400

Female connector (tray packing)			
Variants	No. of Pins	Part No.	SPQ/pcs
90°outlet female connector	12	SL-FA12101	168
	16	SL-FA16101	140
	20	SL-FA20101	119
	26	SL-FA26101	98
	32	SL-FA32101	84
	40	SL-FA40101	63
	50	SL-FA50101	56
	68	SL-FA68101	42
	80	SL-FA80101	35