



EPLSP-019-2000

EPLSP SERIES

(0.80 mm) .0315"

RUGGED LATCHING HIGH-SPEED SYSTEM

FEATURES

- Rugged external cable
- Small form factor
- Low profile latching
- Metal-to-metal two-piece contact system
- High mating cycles
- High cable flex life (500 cycles 180° bend)
- Small bend radius

SPECIFICATIONS

For complete specifications see www.samtec.com?EPLSP

Cable:
32 AWG Low Skew Pair/
28 AWG Power

Bend Radius:
(25.40 mm) 1.00"

Signal Routing:
100 Ω Differential

Pinout Map: 1:1 Map Standard
(See web address above for additional information)

Operating Temp Range:
-20 °C to +105 °C

Current Rating:
1.7 A per pin
(1 pin powered per row)

RoHS Compliant:
Yes

PROTOCOLS

- SAS
- SATA
- Fibre Channel
- Ethernet
- PCIe[®]
- InfiniBand™

OTHER SOLUTIONS



- IP68 Sealed System (RCH/RPBH Series).

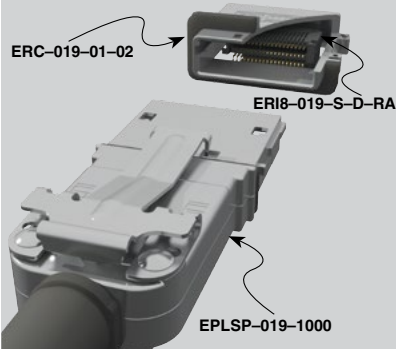
For more information, see www.samtec.com?RCH and www.samtec.com?RPBH.

Note:
This Series is non-standard, non-returnable.

Mates with:
ERI8

**EDGE
RATE[®]**
CONTACT

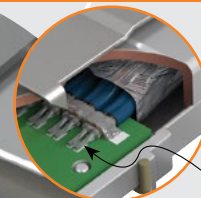
APPLICATION



Low profile latching

High cycles

Metal-to-metal contact interface



32 AWG
Low Skew
Pair

EPLSP	
Cable Length*	Rated @ 7 dB Insertion Loss
1 meter (39.4")	21 Gbps
3 meters (118")	9.5 Gbps
Longer cables and better performance available. See EPLSP-E Series	
Performance and complete test data available at www.samtec.com?EPLSP or contact sig@samtec.com	

TYPE

EPLSP

= Eye Speed[®] I/O Cable

NO. OF POSITIONS

-019

= 9 Pairs, 5 Power, 19 positions

-031

= 17 Pairs, 5 Power, 31 positions

LENGTH

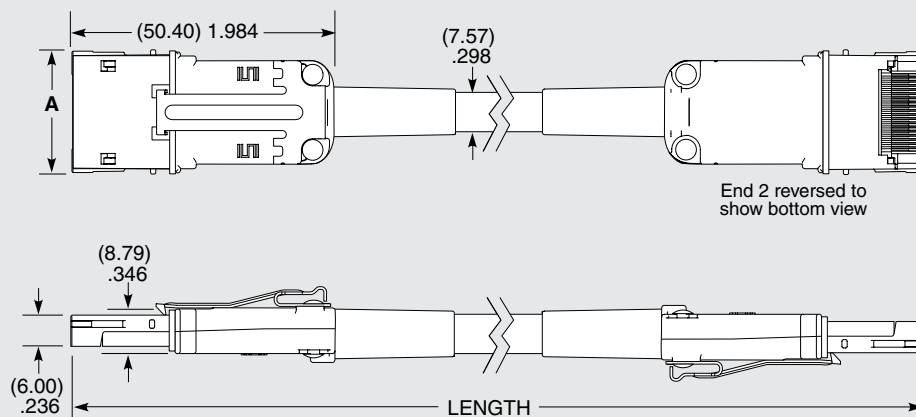
- "XXXX"

= Length in millimeters
-1000, -2000, -3000
(Standard lengths)

ALSO AVAILABLE (MOQ Required)

- Other lengths
- Contact Samtec.

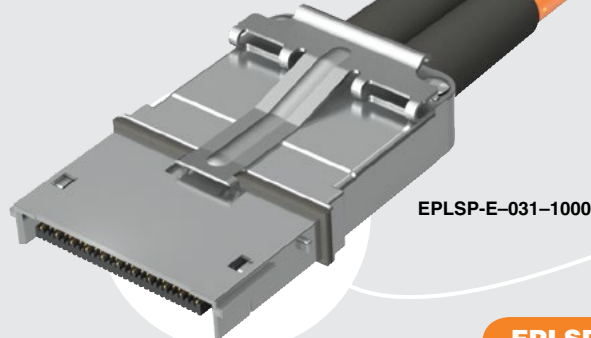
NO. OF POSITIONS	A
-019	(23.85) .939
-031	(32.95) 1.30



Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

All parts within this catalog are built to Samtec's specifications.
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.



EPLSP-E-031-1000

EPLSP-E SERIES

(0.80 mm) .0315"

RUGGED LATCHING HIGH-SPEED SYSTEM

SPECIFICATIONS

For complete specifications see
www.samtec.com?EPLSP-E

Cable:
32 AWG Low Skew Pair/
28 AWG Power

Bend Radius:
(25.40 mm) 1.00"

Signal Routing:
100 Ω Differential

Pinout Map:

1:1 Map Standard

(See web address above
for additional information)

Operating Temp Range:
-20 °C to +105 °C

RoHS Compliant:
Yes

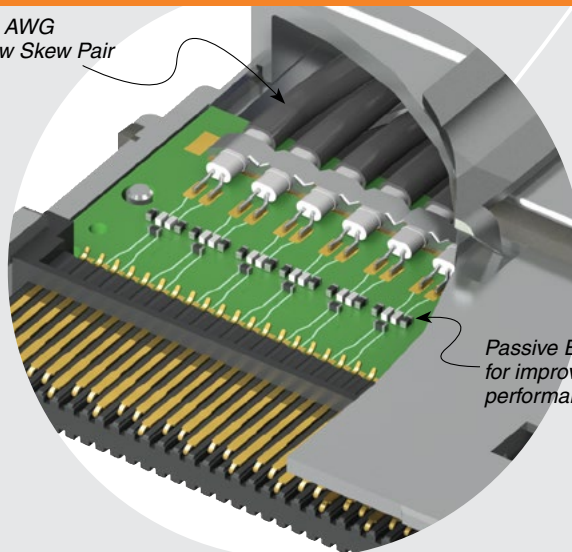
Mates with:
ERI8

**EDGE
RATE**
CONTACT

Performance Comparisons			
Data Rate	EPLSP	EPLSP-E	Δ
14 Gbps	2 m (80")	2.8 m (112")	+ 40%
28 Gbps	N/A	0.5 m (20")	N/A
Cable Length	EPLSP	EPLSP-E	Δ
1 meter (39.4")	21 Gbps	25.5 Gbps	+ 20%
3 meters (118")	9.5 Gbps	13 Gbps	+ 37%

Rated at 7 dB insertion loss
Performance and complete test data
available at www.samtec.com?EPLSP-E
or contact sig@samtec.com

32 AWG
Low Skew Pair



Passive Equalization
for improved
performance

TYPE

NO. OF
POSITIONS

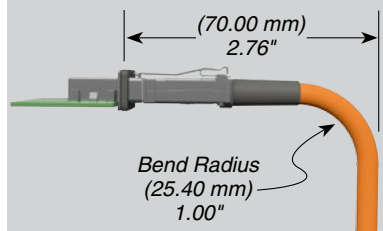
LENGTH

EPLSP-E
= Equalized
Eye Speed® I/O Cable

-019
= 9 Pairs, 5 Power, 19 positions
-031
= 17 Pairs, 5 Power, 31 positions

-“XXXX”
= Length in millimeters
-1000, -2000, -3000
(Standard lengths)

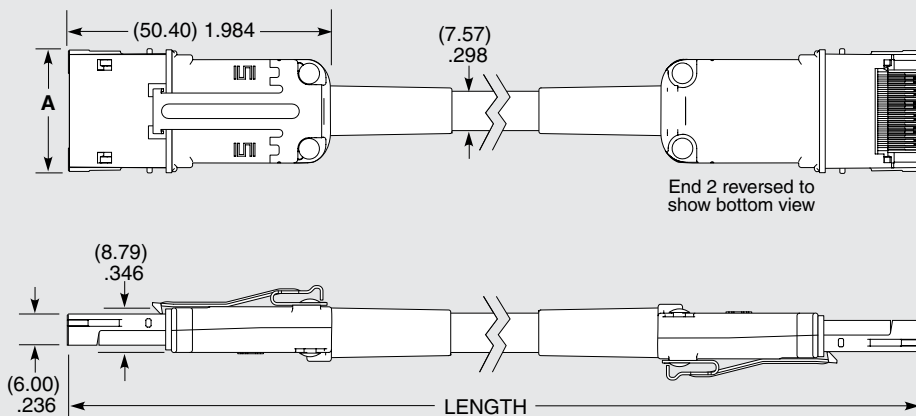
APPLICATION



NO. OF POSITIONS	A	N	N+1	Nx2
-019	(23.85) .939	19	20	38
-031	(32.95) 1.30	31	32	62

ALSO AVAILABLE (MOQ Required)

- Other lengths
Contact Samtec.



End 2 reversed to
show bottom view

Note:
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non-returnable.

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Mouser Electronics

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