

# RUGGED LATCHING HIGH-SPEED SYSTEM

(0.80 mm) .0315" PITCH • EPLSP/ERI8/ERC SERIES



## EPLSP

Mates:  
ERI8

### SPECIFICATIONS

**Cable:**  
32 AWG Low Skew Pair/  
28 AWG Power  
**Bend Radius:**  
(25.40 mm) 1.00"  
**Signal Routing:**  
100  $\Omega$  Differential  
**Pinout Map:**  
1:1 Map Standard  
(See web address below  
for additional information)  
**Operating Temp Range:**  
-20 °C to +105 °C  
**Current Rating:**  
1.7 A per pin  
(2 pins powered)

| SERIES | NO. OF POSITIONS | LENGTH |
|--------|------------------|--------|
|--------|------------------|--------|

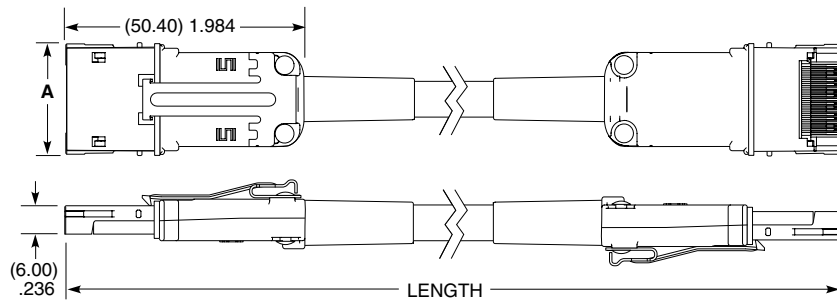
**EPLSP**  
= Eye Speed® I/O Cable

**-019**  
= 9 Pairs, 5 Power, 19 positions

**-031**  
= 17 Pairs, 5 Power, 31 positions

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

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



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

## ERI8

Mates:  
EPLSP

### SPECIFICATIONS

**Insulator Material:**  
Black LCP  
**Terminal Material:**  
BeCu  
**Plating:**  
Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni  
**Current Rating:**  
1.7 A per pin  
(2 pins powered)  
**Voltage Rating:**  
225 VAC/320 VDC  
**Operating Temp Range:**  
-55 °C to +125 °C

**EDGE  
RATE  
CONTACT**

| ERI8 | NO. OF POSITIONS | PLATING OPTION | D | RA | OTHER OPTION |
|------|------------------|----------------|---|----|--------------|
|------|------------------|----------------|---|----|--------------|

**-019**  
= 9 Pairs,  
5 Power,  
19 positions

**-031**  
= 17 Pairs,  
5 Power,  
31 positions

**-S**  
= 30  $\mu$ "  
(0.76  $\mu$ m)  
Gold on  
contact,  
Matte Tin  
on tail

| NO. OF POSITIONS | A            |
|------------------|--------------|
| -019             | (19.08) .751 |
| -031             | (28.68) 1.13 |

**-TR**  
= Tape  
& Reel

**-FR**  
= Full Reel  
Tape &  
Reel  
(must  
order  
max.  
quantity  
per reel;  
contact  
Samtec  
for  
quantity  
breaks)

| SERIES | NO. OF POSITIONS | 01 | OPTION |
|--------|------------------|----|--------|
|--------|------------------|----|--------|

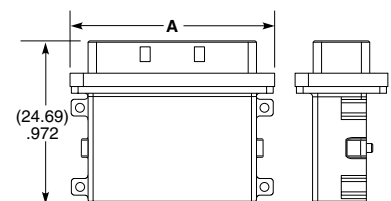
**ERC**  
= Cage

**-019,  
-031**  
= Number of  
Positions

**-01**  
= Without  
Gasket

**-02**  
= With  
Gasket

| NO. OF POSITIONS | A             |
|------------------|---------------|
| -019             | (30.55) 1.203 |
| -031             | (40.15) 1.58  |



### PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max

**Notes:**  
Active equalization  
reference design for  
Eye Speed® I/O system  
see [www.samtec.com?EPLSP](http://www.samtec.com?EPLSP)

Some lengths, styles and  
options are non-standard,  
non-returnable.

# Mouser Electronics

Authorized Distributor

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[EPLSP-031-1000](#)