

(0.80 mm) .0315"

ERDP-025-06.00-TEU-TTR-1-L

ERDP-013-06.00-TTR-STR-2-D

ERDP SERIES

# EDGE RATE® TWINAX CABLE ASSEMBLIES

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?ERDP](http://www.samtec.com?ERDP)

**Cable:**  
30 AWG twinax ribbon cable  
**Signal Routing:**  
100 Ω Differential  
**Plating:**  
Au over 50 μ" (1.27 μm) Ni  
**Operating Temp Range:**  
-25 °C to +125 °C  
**RoHS Compliant:**  
Yes

## PROTOCOLS

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

**Mates with:**  
ERF8, ERM8

Broadside wiping  
contacts reduce  
unwanted  
crosstalk

(0.80 mm)  
.0315" pitch

Standard  
latch

**EYE<sup>®</sup>  
SPEED<sup>®</sup>  
CABLE**

30 AWG  
twinax ribbon cable

## HIGH-SPEED CHANNEL PERFORMANCE

ERDP

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com)  
or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**16**  
Gbps

**ERDP** — **NO. POSITIONS PER ROW** — **WIRE LENGTH** — **END NO. 1** — **END NO. 2** — **WIRING OPTION** — **LATCH**

—013 = 8 Pair,  
—025 = 16 Pair, —049 = 32 Pair

—“XX.XX”  
= Wire Length  
in Inches  
(43.7 mm) 01.72"  
minimum

—TTR  
= Terminal, Top Right

—TTL  
= Terminal, Top Left

—TBR  
= Terminal, Bottom Right

—TBL  
= Terminal, Bottom Left

—STR  
= Socket, Top Right

—STL  
= Socket, Top Left

—SBR  
= Socket, Bottom Right

—SBL  
= Socket, Bottom Left

—TEU  
= Terminal, Edge Mount Up

—TED  
= Terminal, Edge Mount Down

—1  
= Pin 1 to Pin 1

—2  
= Pin 1 to Pin 2

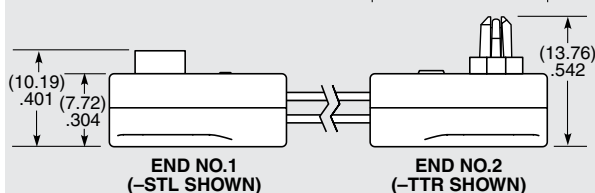
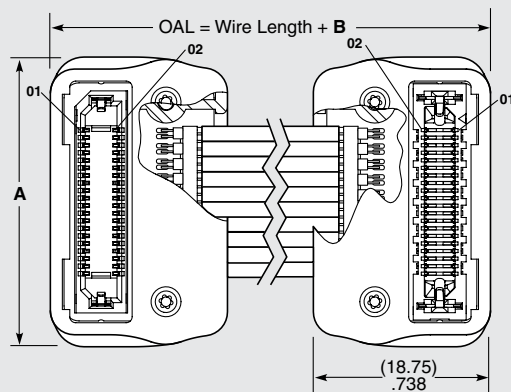
—3  
= Pin 1 to Pin N -1

—4  
= Pin 1 to Pin N

Specify  
**LATCH**  
from  
chart  
(Required  
callout)

END TO END	B
DV to DV	(23.47) .924
DV to Edge Mount (-TEX)	(26.69) 1.051
Edge Mount (-TEX)	(29.92) 1.178

POSITIONS PER ROW	A
—013	(25.86) 1.018
—025	(34.67) 1.365
—049	(53.85) 2.120



**Notes:**  
Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

Design your High-Speed Cable with Samtec's High-Speed Cable Solutionator® at [www.samtec.com/hdr](http://www.samtec.com/hdr)

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

LATCH	ASSEMBLY
† -L	End No. 1 Standard Latch, End No. 2 Squeeze Latch
♦ -R	End No. 1 Squeeze Latch, End No. 2 Standard Latch
-D	Both Ends Standard Latch
-N	No Housing
-B	Both Ends Standard Latch
* -B	Both Ends Squeeze Latch
♦ -F	End No. 1 Screw Option, End No. 2 Friction Latch
† -S	End No. 1 Friction Latch, End No. 2 Screw Option
* -C	Both Ends Screw Option
* -G	End No. 1 Screw Option, End No. 2 Squeeze Latch
* -T	End No. 1 Squeeze Latch, End No. 2 Screw Option
* -B, -C, -G & -T option only available with -TEX on both ends.	
† -L & -S option only available with -TEX on second end.	
♦ -R & -F option only available with -TEX on first end.	