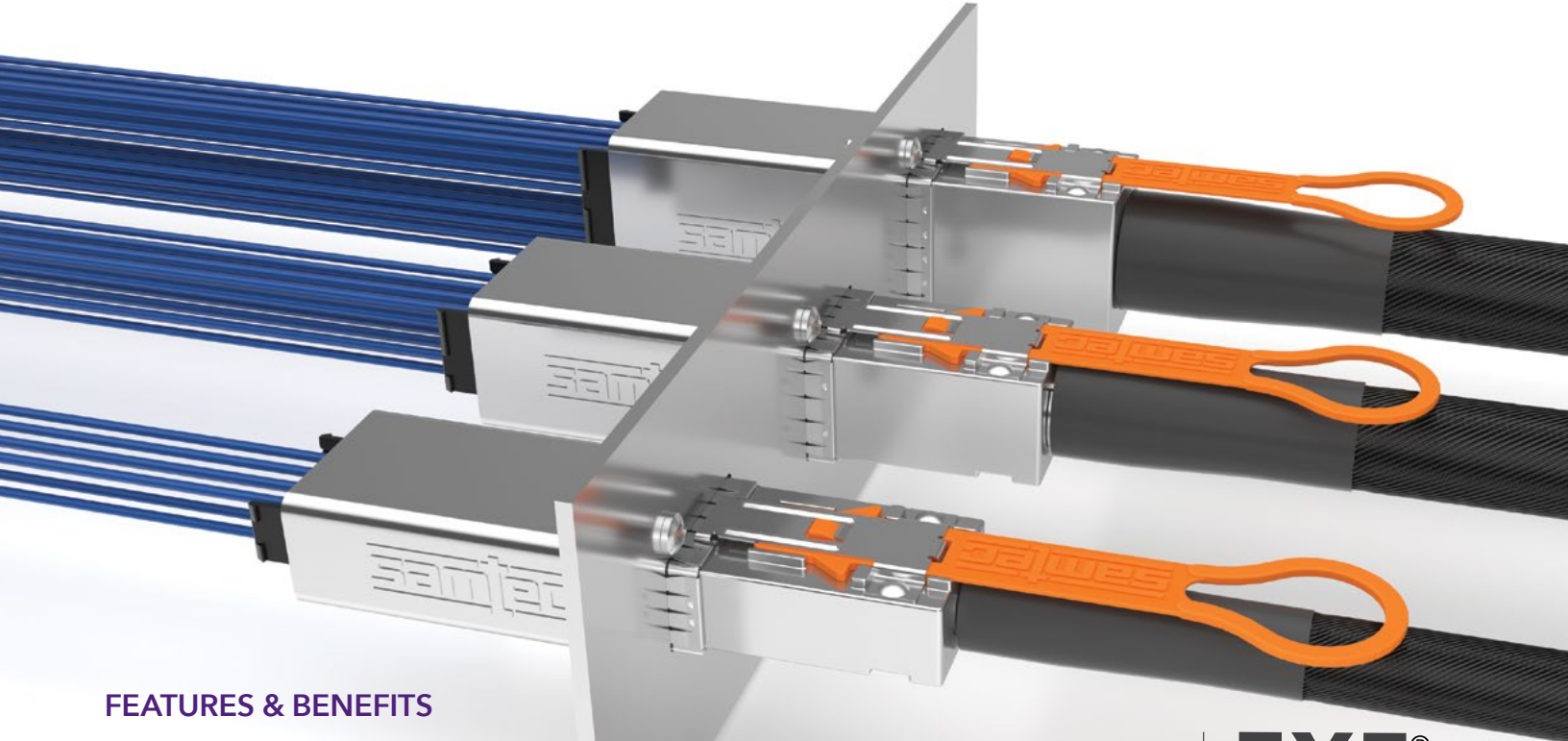


# NOVARAY<sup>®</sup> I/O

## EXTREME PERFORMANCE PANEL MOUNT I/O ASSEMBLIES



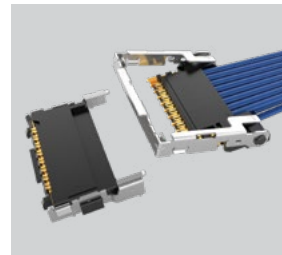
### FEATURES & BENEFITS

- 16 & 32 differential pair configurations  
– Accommodates x4 or x8 plus sidebands
- Cable-to-Cable bulkhead panel connection using Flyover<sup>®</sup> Cable Technology
- External Cable: 28 or 34 AWG twinax
- Internal Cable: 34 AWG twinax
- Single-Ended coax options also available
- Full external EMI shielding
- Multiple end 2 high-speed connector options on internal cable
- Available in a rugged 38999 shell for salt fog resistance to 48 hours and IP67 rated for dust and water applications

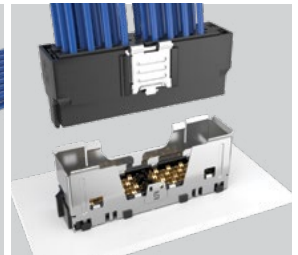
NOVARAY<sup>®</sup> I/O

EYE<sup>®</sup>  
SPEED  
CABLE

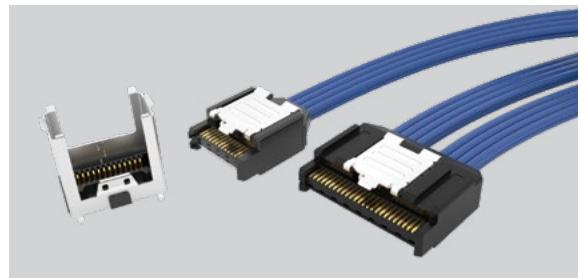
### VARIOUS END 2 OPTIONS AVAILABLE



Si-Fly™



NovaRay®



AcceleRate®

PAM 4  
112  
G b p s

TARGETED CONFIGURATIONS	AGGREGATE DATA RATE
8 Pair (In Development)	896 Gbps
16 Pair	1792 Gbps
32 Pair	3584 Gbps
x4 (8 Pair + PCIe <sup>®</sup> Sidebands)	512 Gbps
x8 (16 Pair + PCIe <sup>®</sup> Sidebands)	1024 Gbps

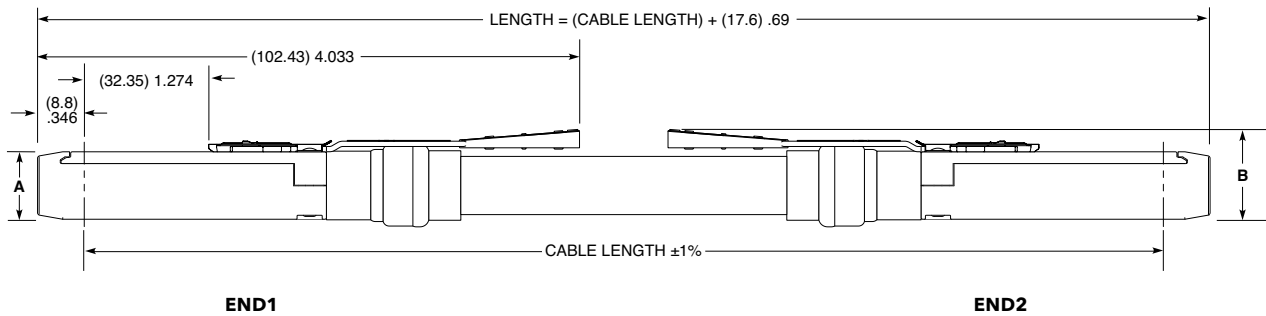
PCI EXPRESS<sup>®</sup>  
GEN 6 COMPATIBLE

## EXTREME PERFORMANCE I/O CABLE

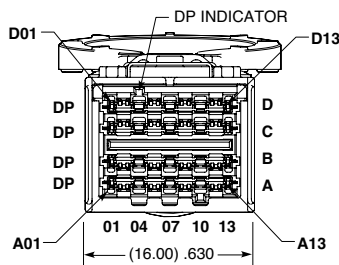
NVACE	SIGNAL TYPE	CABLE TYPE	ROWS	CABLE LENGTH	END 2	PIN OUT	SPEED
	-DP = Differential (twinax pairs only)	-1 = 34 AWG, 100 Ω ultra low skew twinax	-4 = 4 rows	-X.X = Length in meters 0.5 meters (19.69") minimum	-A = NVACE	-1 = Pin A01 to Pin A01	(Differential twinax pairs only)
	-SE = Single ended (coax signals only)	-5 = 28 AWG, 100 Ω ultra low skew twinax	-8 = 8 rows			-4 = Pin A01 to Pin N	-1 = 56G PAM4
		-6 = 34 AWG, 50 Ω coax (-SE only)					-2 = 112G PAM4

### NVACE

Cable Mates:  
NVACP  
Panel Cage:  
NVC

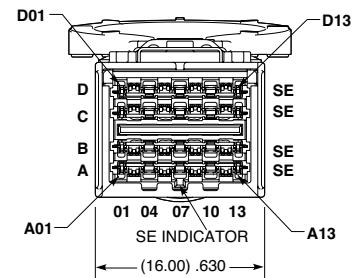


NVACE-XX-X-4-X-X-A-X-2 SHOWN



-DP SHOWN

ROW	A	B
-4	(12.75) .502	(17.00) .669
-8	(20.75) .817	(25.00) .984



-SE SHOWN

#### Notes:

Cable lengths longer than 3 meters (118") are not supported with S.I. test data.

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

View complete specifications at: [samtec.com?NVACE](http://samtec.com?NVACE)