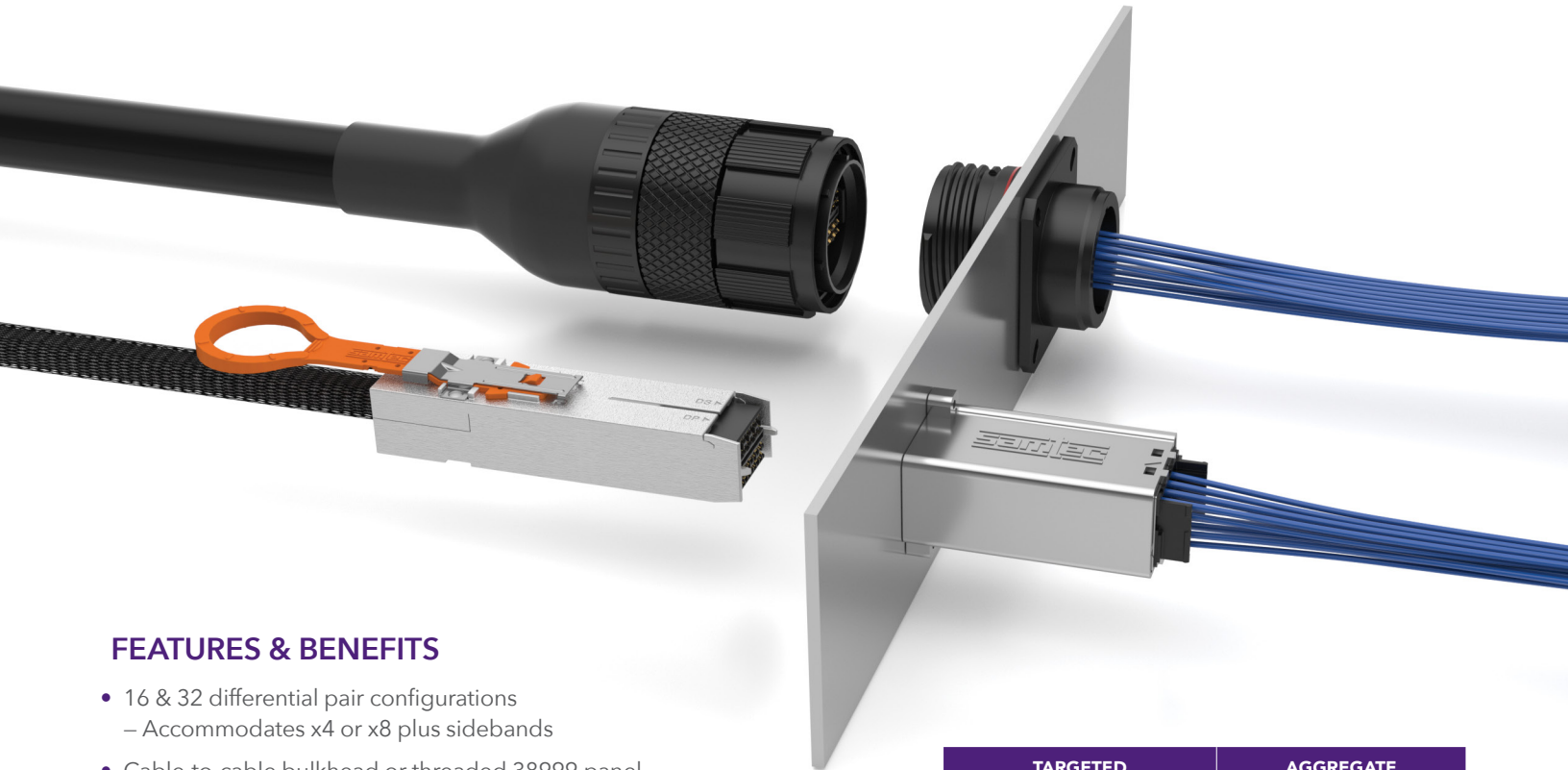


NOVARAY[®] I/O

EXTREME PERFORMANCE PANEL MOUNT I/O ASSEMBLIES



FEATURES & BENEFITS

- 16 & 32 differential pair configurations
– Accommodates x4 or x8 plus sidebands
- Cable-to-cable bulkhead or threaded 38999 panel connection using Flyover[®] Cable Technology
- Rugged 38999 shell is salt fog resistant to 48 hours and IP67 rated for dust and water applications
- Eye Speed[®] ultra low skew twinax cable
- Single-ended micro coax options also available
- Full external EMI shielding
- Multiple end 2 high-speed connector options on internal cable

PAM 4
128
Gbps

PCI EXPRESS
PCIe[®] 7.0 CAPABLE

TARGETED CONFIGURATIONS	AGGREGATE DATA RATE
8 Pair (In Development)	1024 Gbps
16 Pair	2048 Gbps
32 Pair	4096 Gbps
x4 (8 Pair + PCIe [®] Sidebands)	512 Gbps
x8 (16 Pair + PCIe [®] Sidebands)	1024 Gbps

KEY SPECIFICATIONS

SERIES	CABLE	SIGNAL ROUTING	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING
NVACE	34 or 28 AWG ultra low skew twinax; 34 AWG ThinSE [™] micro coax	100 Ω Differential & 50 Ω Single-Ended	High Temp Thermoplastic	Copper Alloy	Au over 50 μ" (1.27 μm) Ni	-40 °C to +105 °C	1.17 A (4 row)	211 VAC/ 298 VDC
NVACP	34 AWG ultra low skew twinax; 34 AWG Thinax [™] twinax; 34 AWG ThinSE [™] micro coax	92 Ω & 100 Ω Differential, 50 Ω Single-Ended						
NVA3E	34 or 28 AWG ultra low skew twinax	100 Ω Differential	Black LCP	Copper Alloy	Au over 50 μ" (1.27 μm) Ni	Testing Now!	Testing Now!	Testing Now!
NVA3P	34 AWG ultra low skew twinax							

EXTREME PERFORMANCE PANEL MOUNT CABLE

NVACP	SIGNAL TYPE	CABLE STYLE	ROWS	CABLE LENGTH	END 2	PIN OUT	SPEED
-------	-------------	-------------	------	--------------	-------	---------	-------

-DP
= Differential pairs
(-1, -3 or -7 cable only)

-SE*
= Single-ended
(-8 cable only)

-DS*
= Mixed -DP & -SE
(-1, -3 or -7 cable for DP; -8 cable for -SE)

-1
= 34 AWG, 100 Ω
ultra low skew
twinax cable

-3
= 34 AWG, 92 Ω
ultra low skew
twinax cable

-7
= 34 AWG, 92 Ω
Thinax™ ultra
low skew
twinax cable

-8
= 34 AWG, 50 Ω
ThinSE™ micro
coax cable

-4
= 4 rows

-8
= 8 rows

-XX.X
= Length in inches
06.0"
(152.4 mm)
minimum

-A
= 1 ARC6
(34 AWG
100 Ω
twinax only)

-B
= 1 NVAC

-1
= Pin A01
to Pin A01

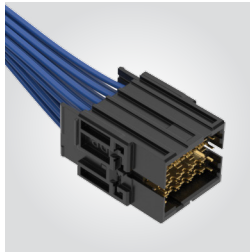
-4
= Pin A01
to Pin AN
(N equals
last position)

(Differential twinax
pairs only)

-1
= Up to 128G
PAM4

*Contact HDRGroup@samtec.com for applications requiring -SE or -DS options

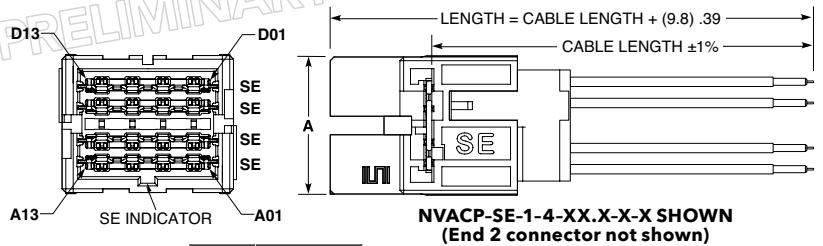
NVACP
Cable Mates:
NVACE
Panel Cage:
NVC



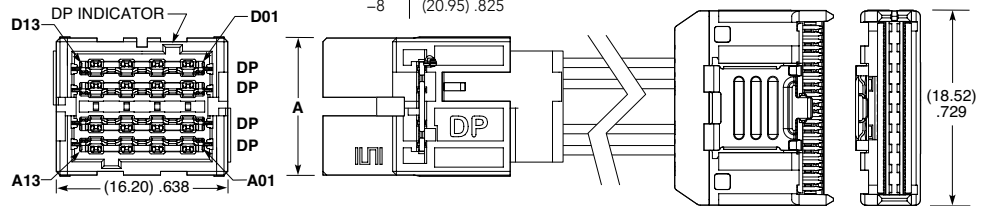
Notes:
Cable lengths longer than 40.00" (1 meter) are not supported with S.I. test data.

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

-8 CABLE PRELIMINARY



ROW	A
-4	(12.95) .510
-8	(20.95) .825



ARC6 CONNECTOR SHOWN

DIE CAST PANEL CAGE

View complete specifications at: samtec.com?NVACP

NVC	NO. OF PORTS	ROWS	PACKAGING
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-1
= 1 Port
(4 row only)

-2
= 2 Ports
(8 row only)

-4
= 4 Ports
(8 row only)

-04
= 4 rows

-08
= 8 rows

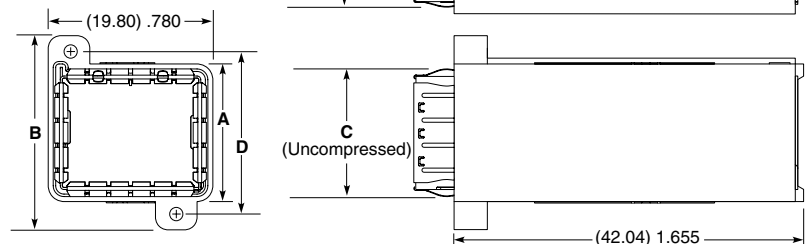
-TY
= Trays

NVC
Use with:
NVACP, NVACE



ROW	A	B	C	D
-04	(16.55) .652	(23.35) .919	(15.36) .605	(19.56) .770
-08	(24.55) .967	(31.35) 1.234	(23.36) .920	(27.56) 1.085

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



View complete specifications at: samtec.com?NVC