Amphenol Aerospace

PCI EXPRESS 1.0/2.0/3.0 COPPER/FIBER CONVERSION

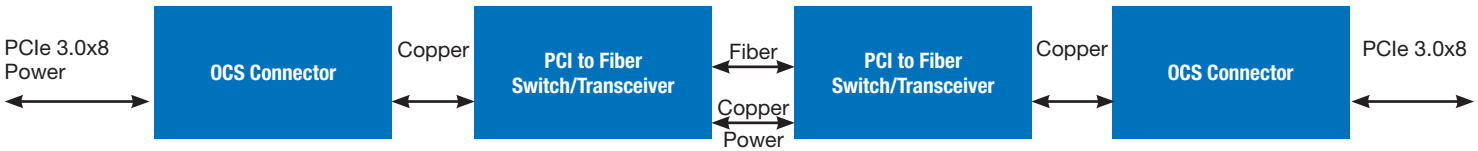
PDS - 321

Amphenol's Rugged PCI-Express 1.0/2.0/3.0 fiber optic conversion active assembly provides systems integrators great flexibility as PCI-Express can now be extended over fiber optics in rugged systems. The current product supports a x8 PCI-Express interface on each end of the active cable along with rugged D38999 series 3 receptacles with embedded Oval Contact System high performance contacts for the extension of the interface between sub-systems.
The product can support down to PCI-Express 1.0 and up to 3.0 as well as flexibility down to a x1 interface and up to a x8 interface.

FEATURES AND BENEFITS:

- Support for PCI-Express 1.0, 2.0, and 3.0
- I/O expandability from x1 to x8 channel widths
- Power is sourced from the P1 side and then internally routed to the alternate electronics near the P2 connector
- The rugged fiber optic link can be up to 750 meters
- MIL-STD-810 compliant for vibration, temperature, shock, humidity, EMI, etc.
- Integrated with embedded High Speed Oval Contact System contacts for the copper PCI-express interface.
- Max 64Gbps or 8GB/s system through put for a x8 PCI-express 3.0 link

PCI EXPRESS®



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CF-901201-23X

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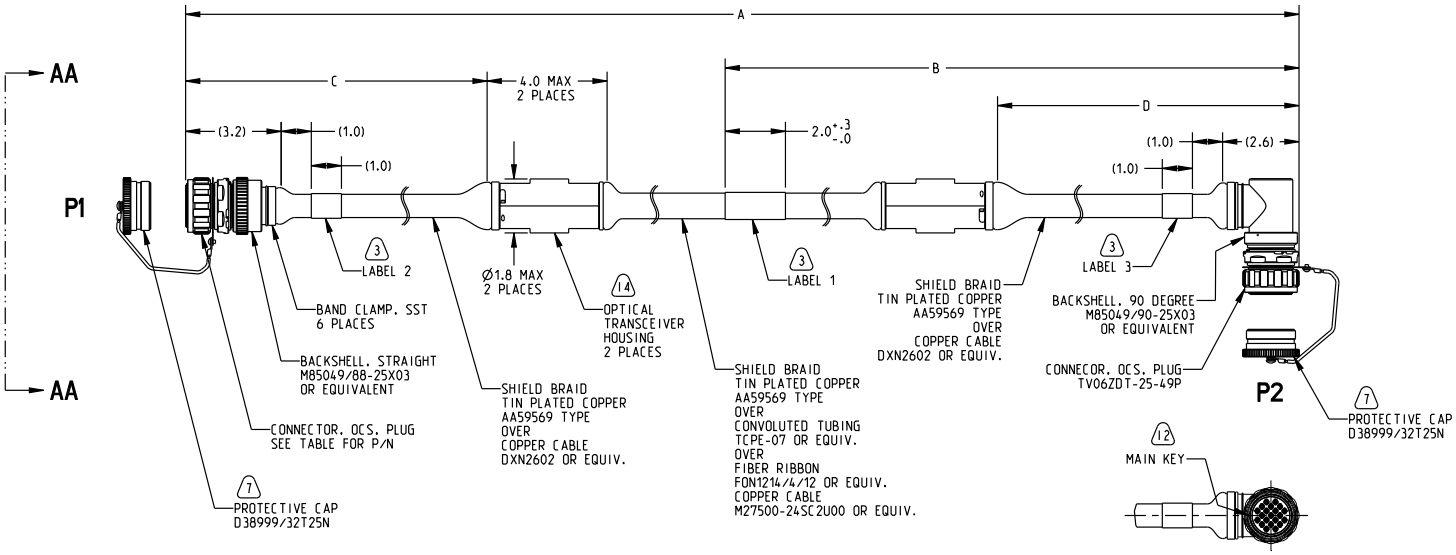
Customizable Option
- Length Dimensions
- Platings
- Rotations



PART NUMBER	A +12.0 -.0	B +4.0 -.0	C +2.0 .0	D +2.0 -.0	P1 CONNECTOR	P1 CONN. KEYING
CF-901201-231	248.4	42.5	18.0	11.6	TV06ZDT-25-49P	NORMAL
CF-901201-232	237.9	36.6	17.4	23.8	TV06ZDT-25-49PA	A
CF-901201-233	222.9	27.9	13.7	15.5	TV06ZDT-25-49PB	B
CF-901201-234	245.5	46.7	15.8	16.5	TV06ZDT-25-49PC	C

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WIRING TABLE

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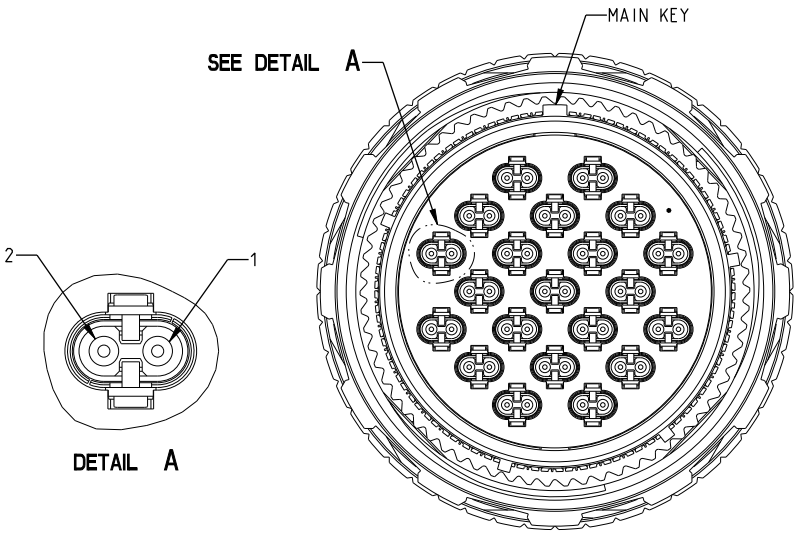
WIRING TABLE		
P1	P2	DESCRIPTION
N1	M1	POS[*]_POS[*]SBC1_PCIE_0_P
N2	M2	POS[*]_POS[*]SBC1_PCIE_0_N
X1	L1	POS[*]_POS[*]SBC1_PCIE_1_P
X2	L2	POS[*]_POS[*]SBC1_PCIE_1_N
Y1	K1	POS[*]_POS[*]SBC1_PCIE_2_P
Y2	K2	POS[*]_POS[*]SBC1_PCIE_2_N
V1	W1	POS[*]_POS[*]SBC1_PCIE_3_P
V2	W2	POS[*]_POS[*]SBC1_PCIE_3_N
U1	J1	POS[*]_POS[*]SBC1_PCIE_4_P
U2	J2	POS[*]_POS[*]SBC1_PCIE_4_N
F1	H1	POS[*]_POS[*]SBC1_PCIE_5_P
F2	H2	POS[*]_POS[*]SBC1_PCIE_5_N
E1	G1	POS[*]_POS[*]SBC1_PCIE_6_P
E2	G2	POS[*]_POS[*]SBC1_PCIE_6_N
T1	D1	POS[*]_POS[*]SBC1_PCIE_7_P
T2	D2	POS[*]_POS[*]SBC1_PCIE_7_N
M1	N1	POS[*]SBC1_POS[*]_PCIE_0_P
M2	N2	POS[*]SBC1_POS[*]_PCIE_0_N
L1	X1	POS[*]SBC1_POS[*]_PCIE_1_P
L2	X2	POS[*]SBC1_POS[*]_PCIE_1_N
K1	Y1	POS[*]SBC1_POS[*]_PCIE_2_P
K2	Y2	POS[*]SBC1_POS[*]_PCIE_2_N
W1	V1	POS[*]SBC1_POS[*]_PCIE_3_P
W2	V2	POS[*]SBC1_POS[*]_PCIE_3_N
J1	U1	POS[*]SBC1_POS[*]_PCIE_4_P
J2	U2	POS[*]SBC1_POS[*]_PCIE_4_N
H1	F1	POS[*]SBC1_POS[*]_PCIE_5_P
H2	F2	POS[*]SBC1_POS[*]_PCIE_5_N
G1	E1	POS[*]SBC1_POS[*]_PCIE_6_P
G2	E2	POS[*]SBC1_POS[*]_PCIE_6_N
D1	T1	POS[*]SBC1_POS[*]_PCIE_7_P
D2	T2	POS[*]SBC1_POS[*]_PCIE_7_N

WIRING TABLE		
P1	P2	DESCRIPTION
B1	--	POS_[*]_PCIE_12VDC_PWR
B2	--	POS_[*]_PCIE_12VDC_PWR_RTN
C1	--	POS_[*]_PCIE_12VDC_PWR
C2	--	POS_[*]_PCIE_12VDC_PWR_RTN
A1	--	RESERVED_NC
A2	--	RESERVED_NC
P1	--	RESERVED_NC
P2	--	RESERVED_NC
R1	--	RESERVED_NC
R2	--	RESERVED_NC
--	A1	RESERVED_NC
--	A2	RESERVED_NC
--	B1	RESERVED_NC
--	B2	RESERVED_NC
--	C1	RESERVED_NC
--	C2	RESERVED_NC
--	P1	RESERVED_NC
--	P2	RESERVED_NC
--	R1	RESERVED_NC
--	R2	RESERVED_NC



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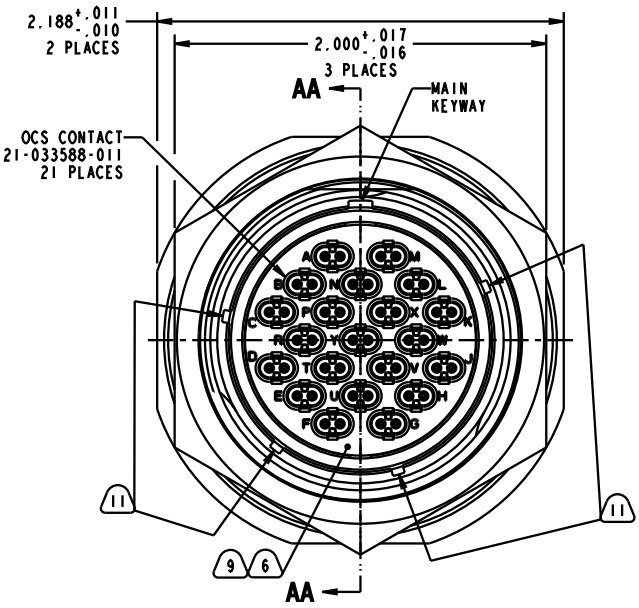
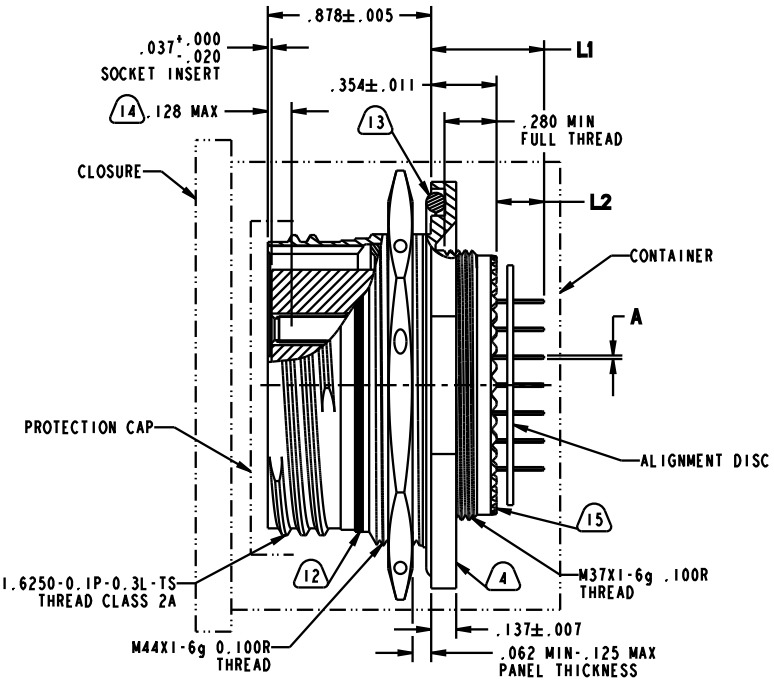
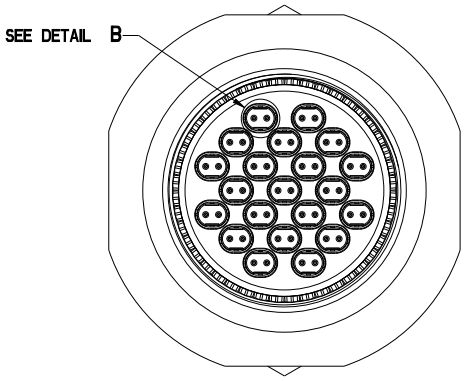
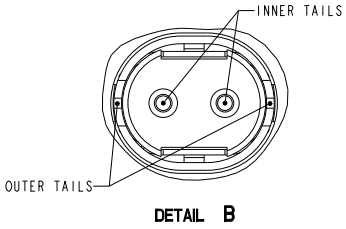




PART NUMBER	TYPE	CONNECTOR CODED NUMBER REFERENCE
10-646402-588N	II	TV07GZDT-25-49S (LC)
10-646402-588A		TV07GZDT-25-49SA(LC)
10-646402-588B		TV07GZDT-25-49SB(LC)
10-646402-588C		TV07GZDT-25-49SC(LC)
10-646402-588D		TV07GZDT-25-49SD(LC)
10-646402-588E		TV07GZDT-25-49SE(LC)





CONTACT TAILS TABLE			
DESCRITPION	A	L1	L2
OCS OUTER TAILS	.013±.002 X .010±.003	.609±.034	.200 MIN
OCS INNER TAILS	Ø.19±.022		

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TESTING

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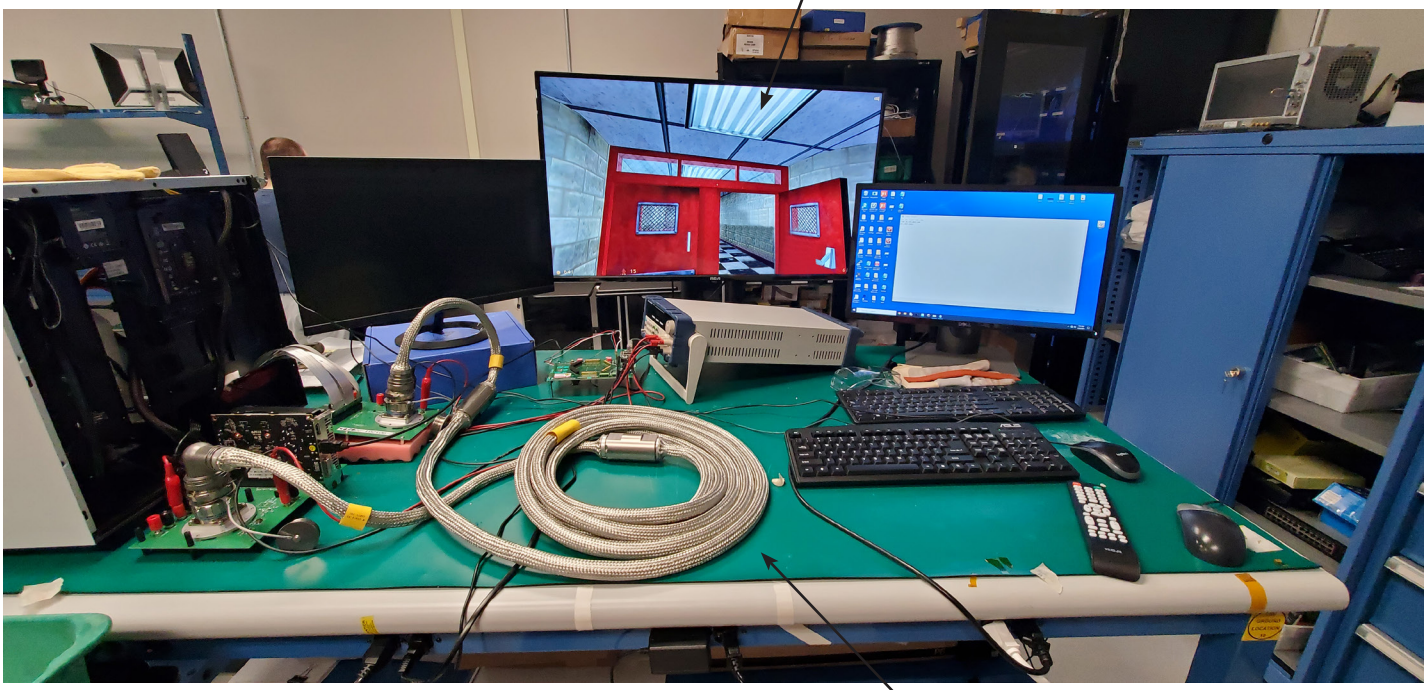
Graphics over PCIe 3.0x8 Fiber



Product Under Test

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