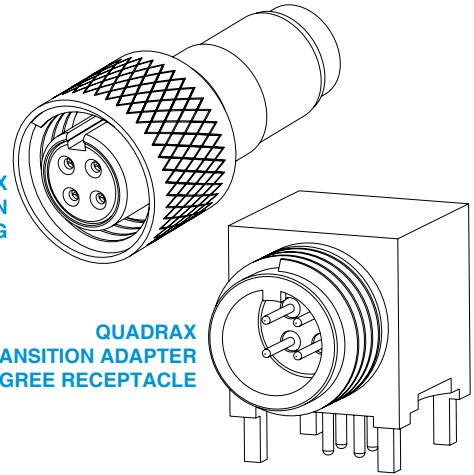


General Description

Amphenol® Transition Adapters - Are used to facilitate launching of controlled impedance signals to printed circuit boards. Amphenol provides transition adapters in both contact types:

- Quadrax transition adapters, 90° or straight receptacles threaded or cable to board style
- Differential twinax transition adapters, 90° or straight receptacles, threaded or cable to board style



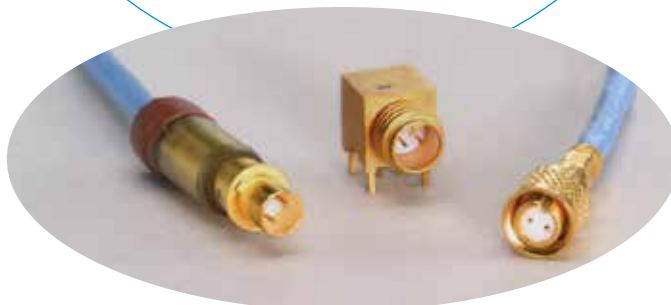
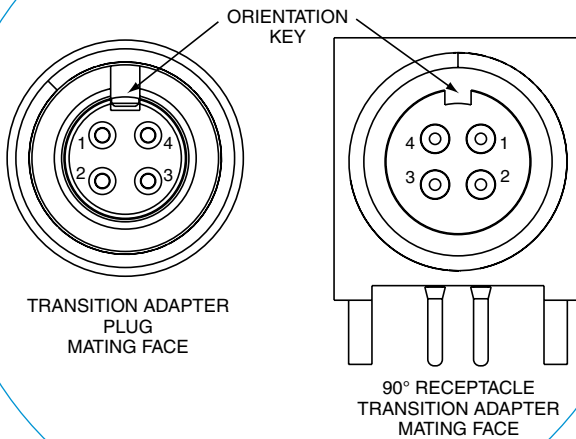
**QUADRAX
TRANSITION
ADAPTER PLUG**

**QUADRAX
TRANSITION ADAPTER
90 DEGREE RECEPTACLE**



90° Quadrax Receptacle and Plug Transition Adapter

Suggested Numbering for Transition Adapters with Quadrax Contacts



90° Differential Twinax Receptacle and Plug Transition Adapter

TRANSITION ADAPTER DATA

Finish of mating contact parts: Contacts are supplied gold plated per ASTM B488 Type II, Code C, .000050 min. thick over nickel plate per AMS-QQ-N-290, Class 2, .000030/.000150 thick.

ELECTRICAL PROTOCOLS FOR QUADRAX TRANSITION ADAPTERS

Part Number		Impedance (Ohms)	Electrical Protocol††
Plug	Receptacle		
21-033836-031		100	Ethernet, gigabit Ether
21-033836-041			Ethernet, gigabit Ether
21-033836-051			Ethernet, gigabit Ether
21-033836-061			Ethernet, gigabit Ether
	21-033837-081 (90 degree)		
	21-033837-091 (straight)		
	21-033837-041 (90 degree)		
	21-033837-051 (straight)		Ethernet, gigabit Ether
	21-033837-061 (90 degree)		
	21-033837-141 (90 degree)		
21-033837-101		150	1000 Base CX, Fibre channel
21-033836-021			1000 Base CX, Fibre channel
	21-033837-021 (90 degree)		
	21-033837-211 (jam nut)		
	21-033837-031 (straight)		
	21-033837-071 (90 degree)		
21-033837-111			

ELECTRICAL PROTOCOLS FOR DIFFERENTIAL TWINAX TRANSITION ADAPTERS

Part Number		Impedance (Ohms)	Electrical Protocol††
Plug	Receptacle		
21-033832-81		100	Ethernet
21-033832-21			Ethernet
	21-033833-021 (90 degree)		
	21-033833-031 (90 degree)		
	21-033833-151 (90 degree)		
21-033832-111†			
	21-033833-161† (90 degree)		
	21-033833-171† (90 degree)		
	21-033833-091 (90 degree)		
	21-033833-051 (90 degree)		
	21-033833-141 (90 degree)		
21-033832-91		150	
	21-033833-111 (90 degree)		
	21-033833-181† (90 degree)		
	21-033833-101 (90 degree)		

† Consult Amphenol Aerospace for current release of this adapter.

†† Test reports available for indicated protocols; consult Amphenol Aerospace.

38999

III

HD

Dualok

II

I

SJT

Accessories

Aquacon

Herm/Seal

PCB

**HIGH
SPEED**

Fiber
Optics

Contacts
Connectors
Cables

EMI Filter
Transient

26482
Matrix 2

83723 III
Matrix | Pyle

26500
Pyle

5015
Crimp Rear
Release
Matrix

22992
Class I

Back-
Shells

Options
Others

Differential Twinax Transition Adapters

For Attachment to PC Boards - Application Data

38999

III
HD
Dualok
II
I
SJT
Accessories
Aquacon
Herm/Seal
PCB

HIGH SPEED
Fiber Optics
Contacts
Connectors
Cables

EMI Filter
Transient
26482
Matrix 2
83723 III
Matrix | Pyle

Pyle
26500

Crimp Rear
Release
Matrix
5015

Class 1
22992

Back-Shell
Shell's

Options
Others

100 OHM DIFFERENTIAL TWINAX TRANSITION ADAPTERS FOR LAUNCHING CONTROLLED IMPEDANCE SIGNALS TO PC BOARDS

Differential Twinax Type Adapter/ Cable or PCB Tail Length	Illustration of Adapter	Part Number (Termination Instruction Sheet)**		Impedance (Ohms)	Mating Thread Size	Crimping Tools			
		Plug	Receptacle			Inner Contact	Outer Contact		
Differential Twinax Plug Adapter/ M17/176-00002 (77 ohms) 24463/9P026X-2		21-033832-081 (L-2119-AJ)		100	.3125	M22520/2-01 with Positioner M22520/2-34	M22520/5-01 with Die Set M22520/5-05 (Location B)		
Differential Twinax Plug Adapter/ Tensolite 24463/9P025X-2(LD) 10-646060		21-033832-021 (L-2119-P)							
PCB Differential Twinax Receptacle 90 Degree Adapter/ Tail Length .110			21-033833-021					N/A	N/A
PCB Differential Twinax Receptacle Straight Adapter/ Tail Length .110			21-033833-031						
PCB Differential Twinax Receptacle Straight Adapter/ Tail Length .165			21-033833-151						
Differential Twinax Plug Adapter/ Tensolite CAN22TDT120 (120 Ohm)		21-033832-111†						100	.375
PCB Differential Twinax Receptacle 90 degree Adapter/Tail Length .283				21-033833-161†					
PCB Differential Twinax Receptacle Straight Adapter/Tail Length .283			21-033833-171†						
Differential Twinax Receptacle 90 degree Adapter (low profile) with cable to board/ Tensolite 24463/9P026X-2			21-033833-091 (L-2119-AF)	100	N/A	M22520/2-01 with Positioner M22520/2-34	M22520/5-01 with Die Set M22520/5-45 (Location A)		
Differential Twinax Receptacle 90 degree Adapter with cable to board/ Tensolite 24463/9P025X-2			21-033833-051 (L-2119-V)						
Differential Twinax Receptacle 90 degree Adapter with cable to board/ Tensolite 24463/9P025X-2			21-033833-141 (L-2119-BU)						

150 OHM DIFFERENTIAL TWINAX TRANSITION ADAPTERS FOR LAUNCHING CONTROLLED IMPEDANCE SIGNALS TO PC BOARDS

Differential Twinax Type Adapter/ Cable or PCB Tail Length	Illustration of Adapter	Part Number (Termination Instruction Sheet)**		Impedance (Ohms)	Mating Thread Size	Crimping Tools	
		Plug	Receptacle			Inner Contact	Outer Contact
Differential Twinax Plug Adapter/ Tensolite 26483/03071X-2		21-033832-091 (L-2119-BR)		150	.375	M22520/2-01 with Positioner M22520/2-34	M22520/5-01 with Die Set M22520/5-45 (Location A)
PCB Differential Twinax Receptacle 90 Degree Adapter/ Tail Length .110							
PCB Differential Twinax Receptacle Straight Adapter/ Tail Length .110			21-033833-181†				
Differential Twinax Receptacle 90 degree Adapter with cable to board/ Tensolite 26483/03071X-2			21-033833-101 (L-2119-BM)†	150	N/A	M22520/2-01 with Positioner M22520/2-34	M22520/5-01 with Die Set M22520/5-45 (Location A)

**Termination instructions are packaged with each contact and can be found on-line at:
www.amphenol-aerospace.com/serviceinstructions.asp

† Consult Amphenol Aerospace for current release of this adapter and instruction sheet if applicable. See electrical protocols for transition adapters on page 234.