

Quadrax Transition Adapters and Differential Twinax Transition Adapters

General Description

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

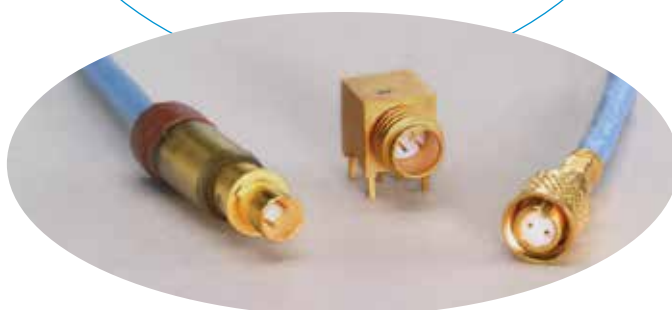
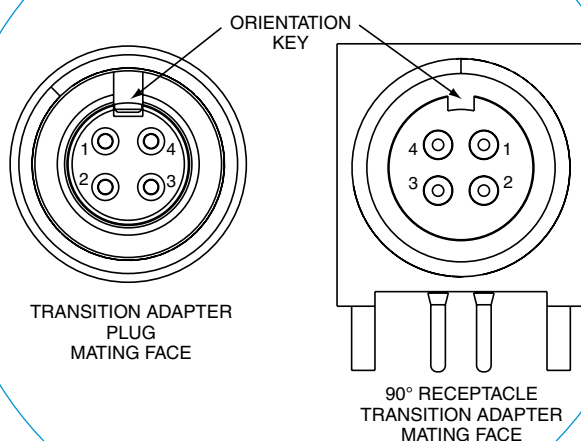
Amphenol® Transition Adapters - Are used to facilitate launching of controlled impedance signals to printed circuit boards. Amphenol provides transition adapters in both contact types:

- 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



90° Quadrax Receptacle and Plug Transition Adapter

Suggested Numbering for Transition Adapters with Quadrax Contacts

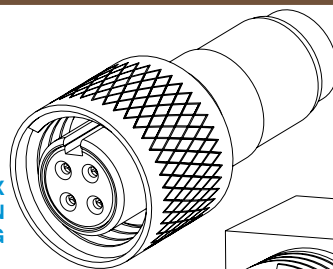


90° Differential Twinax Receptacle and Plug Transition Adapter

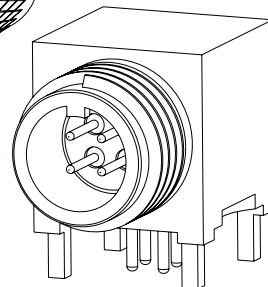
TRANSITION ADAPTER DATA

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.

QUADRAX
TRANSITION
ADAPTER PLUG



QUADRAX
TRANSITION ADAPTER
90 DEGREE RECEPTACLE



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 (straight)		
	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)	150	
21-033832-91			
	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.

Quadrax Transition Adapters

For Attachment to PC Boards

Application Data

100 OHM QUADRAX TRANSITION ADAPTERS FOR LAUNCHING CONTROLLED IMPEDANCE SIGNALS TO PC BOARDS							
Quadrax 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
Quadrax Plug Adapter/ Tensolite NF24Q100, NF24Q100-01 24443/9P025X-4(LD) S280W502-4 24443/03130X-4(LD) Thermax 956-4TN		21-033836-031 (L-2119-U)		100	.375	M22520/2-01 with Positioner M22520/2-37 or with Daniels Positioner K709	M22520/5-01 with Die Set M22520/5-45 (Location A)
Quadrax Plug Adapter/ Tensolite NF22Q100, NF22Q100-01, Thermax 956-5, Tensolite 24450/030894-4(LD) Draka Fileca F-4704-5		21-033836-041 (L-2119-W)†					
Quadrax Plug Adapter/ Draka Fileca F-4703-3, F-4704-4		21-033836-051 (L-2119-Y)					
Quadrax Plug Adapter/ NF26Q100		21-033836-061 (L-2119-AM)†					
Gore RCN8724 (30 awg)		21-033836-071					
Gore ACN1042 (28 awg) Gore RCN8973		21-033836-101					
Gore RCN 8422		21-033836-131					
Quadrax Plug Adapter/ Hexnut with Lock Wire Holes Tensolite RCN8467		21-033836-081					
Tensolite NF24Q100-01		21-033836-111					
Quadrax Receptacle Straight Adapter in-line jam nut (threaded)/ GSC-10-8273900			21-033837-081 (L-2119-AR)†			NA	NA
Quadrax Receptacle Straight Adapter in-line jam nut (threaded) Tensolite NF24Q100-01			21-033837-261				
Quadrax Receptacle Straight Adapter in-line (threaded)/NF24Q100 Tensolite NF24Q100-01, Tensolite 24443/9P025X -4 (LD), S280W502-4, Tensolite 24443/03130X-4 (LD), Thermax 956-4TN			21-033837-091 (L-2119-BL)				
PCB Quadrax Receptacle 90 Degree Adapter/Tail Length .110			21-033837-041				
PCB Quadrax Receptacle 90 Degree Adapter/Tail Length .200			21-033837-201				
PCB Quadrax Receptacle Straight Adapter/Tail Length .110			21-033837-051				
PCB Quadrax Receptacle Straight Adapter/Special Tail Length (.200)			21-033837-061				
Straight adapter Tail Length .175			21-033837-131				
PCB Quadrax Receptacle Straight Adapter/Tail Length .110 except .019" diameter inner contact tails			21-033837-291				
Quadrax Receptacle 90 degree Adapter with cable to board/ NF24Q100 Tail Length .110			21-033837-141 (L-2119-BB)†	100		M22520/2-01 with Positioner M22520/2-37 or with Daniels Positioner K709	M22520/5-01 with Die Set M22520/5-45 (Location A)
Quadrax Receptacle 90 degree Adapter with cable to board/ ABS1503KD24 Tail Length .110 Tensolite NF22Q100-01 Thermax 956-5 Draka Fileca F4704-5			21-033837-231				
Quadrax Receptacle Straight Adapter with cable to board/ NF24Q100, NF24Q100-01 Tail Length .195			21-033837-101 (L-2119-AN)				
Quadrax receptacle straight adapter w/ cable to board, Tail length .195 Draka Fileca F-4703-3, F-4703-4			21-033837-241				

Daniels crimping tools are available from Daniels Mfg. Corp. 6103 Anno Ave., Orlando, FL 32809

**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.

38999

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Dualok

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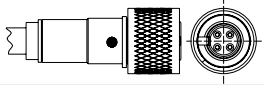
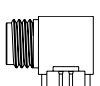
5015
Crimp Rear
Release
Matrix

22992
Class L

Back-
Shells

Options
Others

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

Quadrax 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
Quadrax Plug Adapter/ Tensolite 26473/02006X-4(LD), Gore RCN8328		21-033836-021 (L-2119-S)		150	.375	M22520/2-01 with Positioner M22520/2-34	NA
PCB Quadrax Receptacle 90 Degree Adapter/Tail Length .110			21-033837-021			NA	
PCB Receptacle 90 Degree Adapter/ Tail Length .200			21-033837-251				
PCB Quadrax Receptacle Straight Adapter/Tail Length .110			21-033837-031				
Quadrax Receptacle Straight Adapter in-line Jam Nut (threaded) Tensolite 26473/02006X-4 (LD), Gore RCN8328			21-033837-211 (L-2119-BY)	150		M22520/2-01 with Positioner M22520/2-34	M22520/5-01 with Die Set M22520/5-45 (Location A)
Quadrax Receptacle 90 degree Adapter with cable to board/ Tensolite 26473/02006X-4			21-033837-071 (L-2119-A)†				
Quadrax Receptacle Straight Adapter with cable to board/ Tensolite 26473/02006X-4 (LD)			21-033837-111 (L-2119-AP)				

Daniels crimping tools are available from Daniels Mfg. Corp. 6103 Anno Ave., Orlando, FL 32809

**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.