



IBTA Integrators' List

April 2012 Plugfest



HCAs (Host Channel Adapter)

(Device Listing indicates Core Compliance)

Manufacturer	Product Description	Model	Speed	HW	FW	SW	Core Compliance	Additional Capabilities				
								SM/SA			IPoIB	
								SM/SA	Version	Multicast	Unicast	Multicast
Intel	Intel® True Scale Fabric HCA, Single Port	QLE7340	QDR	03	N/A	OFED 1.5.4.1	✓	✓	3.3.13	✓	✓	✓
	Intel® True Scale Fabric HCA, Dual Port	QLE7342	QDR	03	N/A	OFED 1.5.4.1	✓	✓	3.3.13	✓	✓	✓
Mellanox	ConnectX®-2 VPI card, Single Port, 4X QSFP 40Gb/s InfiniBand	MHQH19B-XTR	QDR	X1	2.9.1170	OFED 1.5.4.1	✓	✓	3.3.13	✓	✓	✓
	ConnectX®-2 VPI card, Dual Port, 4X QSFP 40Gb/s InfiniBand	MHQH29C-XTR	QDR	X2	2.9.1170	OFED 1.5.4.1	✓	✓	3.3.13	✓	✓	✓
	ConnectX®-3 VPI card, Single Port, 4X QSFP 56Gb/s InfiniBand	MCX353A-FCBT	FDR	X1	2.10.4530	OFED 1.5.4.1	✓	✓	3.3.13	✓	✓	✓
	ConnectX®-3 VPI card, Dual Port, 4X QSFP 56Gb/s InfiniBand	MCX354A-FCBT	FDR	X1	2.10.4530	OFED 1.5.4.1	✓	✓	3.3.13	✓	✓	✓

Gateway Devices

(Device Listing indicates Core Compliance)

Manufacturer	Product Description	Model	Speed	HW	FW	SW	Core Compliance	Additional Capabilities				
								SM/SA			IPoIB	
								SM/SA	Version	Multicast	Unicast	Multicast
Mellanox Technologies	Gateway	MBX5020-1SFR	QDR	A2	8.4.2550	1.3.6	✓	N/A				

SRP Storage Targets

(Device Listing indicates Core Compliance)

Manufacturer	Product Description	Model	Speed	HW	FW	SW	Core Compliance	Additional Capabilities				
								SM/SA			IPoIB	
								SM/SA	Version	Multicast	Unicast	Multicast
NetApp	Dual Controller QDR SRP Target	Pikes Peak (5468)	QDR	1	07.80.08.00	10.80.30.08	✓	N/A				



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Switches

(Device Listing indicates Core Compliance)

Manufacturer	Product Description	Model	Ports	Speed	HW	FW	SW	Core Compliance	Advanced Tests		Additional Capabilities							
									Link	Switch/Routing	Enhanced Port 0	Multicast	SM/SA			IPoIB		
													SM/SA	Version	Multicast	Enhanced Port 0 End Node	IPv4 Unicast	IPv4 Multicast
<i>Intel</i>	Intel® True Scale Fabric Edge Switch 12200	12200	36	QDR	003	7.0.1.0.23	7.0.1.0.23	✓	✓	✓	✓	✓	✓	7.1.0.0.48	✓	✓	✓	✓
<i>Mellanox</i>	InfiniScale® IV QDR InfiniBand Switch, 36 QSFP ports	MIS5030Q-1BFC	36	QDR	X2	9.0.3180	1.1.2500	✓	✓	✓	✓	✓	✓	3.3.12	✓	✓	✓	✓



IBTA Integrators' List

April 2012 **DDR** Compliant Cables



		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	DDR	
6A44-B0421-002.0-0	3M Company	4x	2	50u	Active - Fiber	CX4	Yes	Tested at PF20
6A44-B0421-003.0-0	3M Company	4x	3	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-004.0-0	3M Company	4x	4	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-005.0-0	3M Company	4x	5	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-006.0-0	3M Company	4x	6	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-007.0-0	3M Company	4x	7	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-008.0-0	3M Company	4x	8	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-009.0-0	3M Company	4x	9	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-010.0-0	3M Company	4x	10	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-011.0-0	3M Company	4x	11	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-012.0-0	3M Company	4x	12	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-013.0-0	3M Company	4x	13	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-014.0-0	3M Company	4x	14	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-015.0-0	3M Company	4x	15	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-016.0-0	3M Company	4x	16	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-017.0-0	3M Company	4x	17	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-018.0-0	3M Company	4x	18	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-019.0-0	3M Company	4x	19	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-020.0-0	3M Company	4x	20	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-021.0-0	3M Company	4x	21	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-022.0-0	3M Company	4x	22	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-023.0-0	3M Company	4x	23	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-024.0-0	3M Company	4x	24	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-025.0-0	3M Company	4x	25	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-026.0-0	3M Company	4x	26	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-027.0-0	3M Company	4x	27	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-028.0-0	3M Company	4x	28	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-029.0-0	3M Company	4x	29	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-030.0-0	3M Company	4x	30	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-035.0-0	3M Company	4x	35	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-040.0-0	3M Company	4x	40	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-045.0-0	3M Company	4x	45	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-050.0-0	3M Company	4x	50	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-060.0-0	3M Company	4x	60	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-070.0-0	3M Company	4x	70	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-080.0-0	3M Company	4x	80	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-090.0-0	3M Company	4x	90	50u	Active - Fiber	CX4	PBR	Added by Reference
6A44-B0421-100.0-0	3M Company	4x	100	50u	Active - Fiber	CX4	Yes	Tested at PF20



IBTA Integrators' List

April 2012 **DDR** Compliant Cables



		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	DDR	
6A22-A0421-002.0-0	3M Company	4x	2	50u	Active - Fiber	QSFP	Yes	Tested at PF21
6A22-A0421-003.0-0	3M Company	4x	3	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-004.0-0	3M Company	4x	4	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-005.0-0	3M Company	4x	5	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-006.0-0	3M Company	4x	6	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-007.0-0	3M Company	4x	7	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-008.0-0	3M Company	4x	8	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-009.0-0	3M Company	4x	9	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-010.0-0	3M Company	4x	10	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-011.0-0	3M Company	4x	11	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-012.0-0	3M Company	4x	12	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-013.0-0	3M Company	4x	13	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-014.0-0	3M Company	4x	14	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-015.0-0	3M Company	4x	15	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-016.0-0	3M Company	4x	16	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-017.0-0	3M Company	4x	17	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-018.0-0	3M Company	4x	18	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-019.0-0	3M Company	4x	19	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-020.0-0	3M Company	4x	20	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-021.0-0	3M Company	4x	21	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-022.0-0	3M Company	4x	22	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-023.0-0	3M Company	4x	23	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-024.0-0	3M Company	4x	24	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-025.0-0	3M Company	4x	25	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-026.0-0	3M Company	4x	26	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-027.0-0	3M Company	4x	27	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-028.0-0	3M Company	4x	28	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-029.0-0	3M Company	4x	29	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-030.0-0	3M Company	4x	30	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-035.0-0	3M Company	4x	35	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-040.0-0	3M Company	4x	40	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-045.0-0	3M Company	4x	45	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-050.0-0	3M Company	4x	50	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-060.0-0	3M Company	4x	60	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-070.0-0	3M Company	4x	70	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-080.0-0	3M Company	4x	80	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-090.0-0	3M Company	4x	90	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-100.0-0	3M Company	4x	100	50u	Active - Fiber	QSFP	Yes	Tested at PF21



IBTA Integrators' List

April 2012 **DDR** Compliant Cables



		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	DDR	
6B2A-0412A-0	3M Company	4x	100	50u	Active - Fiber	QSFP	Yes	On-Demand
9QA0-111-12-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-112-12-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-12-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-112-12-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-12-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-112-12-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	On-Demand
9QA0-111-12-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-112-12-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-11-3.50	3M Company	4x	3.5	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-111-12-3.50	3M Company	4x	3.5	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-12-4.00	3M Company	4x	4	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-111-11-4.00	3M Company	4x	4	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-111-11-5.00	3M Company	4x	5	30	Unequalized	QSFP	Yes	Tested at PF21
APFN-AOC-001	Advanced Photonics, Inc	4x	1	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
APFN-AOC-003	Advanced Photonics, Inc	4x	3	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-005	Advanced Photonics, Inc	4x	5	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-010	Advanced Photonics, Inc	4x	10	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-015	Advanced Photonics, Inc	4x	15	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-020	Advanced Photonics, Inc	4x	20	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-030	Advanced Photonics, Inc	4x	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
APFN-AOC-050	Advanced Photonics, Inc	4x	50	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-070	Advanced Photonics, Inc	4x	70	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-100	Advanced Photonics, Inc	4x	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
610620001	Amphenol	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
604210001	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
610620002	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
610620003	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
582090002	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
604210002	Amphenol	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
604210003	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
610620004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
582090004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21



IBTA Integrators' List

April 2012 **DDR** Compliant Cables



		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	DDR	
582090005	Amphenol	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
610620005	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
582090006	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
582090013	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
582090007	Amphenol	4x	6	26	Unequalized	QSFP	Yes	Tested at PF21
582090008	Amphenol	4x	7	26	Unequalized	QSFP	Yes	Tested at PF21
APMA01041401-010	Applied Micro	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
7170800025	Cinch Connectors Inc.	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
7170800009	Cinch Connectors Inc.	4x	2	28	Unequalized	QSFP	Yes	Tested at PF21
7170800007	Cinch Connectors Inc.	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
7170800047	Cinch Connectors Inc.	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
7170800044	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
7170800049	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
7170800043	Cinch Connectors Inc.	4x	5	26	Unequalized	QSFP	Yes	Tested at PF20
ALLT01FQPA	Emcore Corporation	4x	1	n	Active - Fiber	QSFP	Yes	Tested at PF21
ALLT10FQPA	Emcore Corporation	4x	10	n	Active - Fiber	QSFP	Yes	Tested at PF21
ALLTAAFQPA	Emcore Corporation	4x	100	n	Active - Fiber	QSFP	Yes	Tested at PF21
ICD120GVP2410-01	FCI	12x	1	NA	Active - Fiber	CXP	Yes	Tested at PF21
ICD120GVP2410-20	FCI	12x	20	NA	Active - Fiber	CXP	Yes	Tested at PF21
ICD120GVP2410-C0	FCI	12x	100	NA	Active - Fiber	CXP	Yes	Tested at PF21
10116951-2005LF	FCI	12x	0.5	30	Unequalized	CXP	Yes	Tested at PF21
10116951-2023LF	FCI	12x	2.3	30	Unequalized	CXP	Yes	Tested at PF21
10116951-4030LF	FCI	12x	3	26	Unequalized	CXP	Yes	Tested at PF21
10116951-4043LF	FCI	12x	4.3	26	Unequalized	CXP	Yes	Tested at PF21
ICD120GVP2420-10	FCI	12x	10	NA	Active - Fiber	Hybrid - CXP & QSFP	Yes	Tested at PF21
ICD056GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
ICD040GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
ICD040GVP163D-20	FCI	4x	20	NA	Active - Fiber	QSFP	Yes	Tested at PF21
ICD040GVP163D-C0	FCI	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
10119239-2005LF	FCI	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
10119239-4005LF	FCI	4x	0.5	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-1010LF	FCI	4x	1	32	Unequalized	QSFP	Yes	Tested at PF20
10093084-2010LF	FCI	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
10119239-2010LF	FCI	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
10093084-3010LF	FCI	4x	1	28	Unequalized	QSFP	Yes	Tested at PF20
10119239-4010LF	FCI	4x	1	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-1020LF	FCI	4x	2	32	Unequalized	QSFP	Yes	Tested at PF20
10119239-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21



IBTA Integrators' List

April 2012 **DDR** Compliant Cables



		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	DDR	
10093084-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
10119239-4020LF	FCI	4x	2	26	Unequalized	QSFP	Yes	Tested at PF21
10119239-2025LF	FCI	4x	2.5	30	Unequalized	QSFP	Yes	Tested at PF21
10093084-2030LF	FCI	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
10093084-3030LF	FCI	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
10119239-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
10093084-3040LF	FCI	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
10119239-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
10093084-4045LF	FCI	4x	4.5	26	Unequalized	QSFP	Yes	Tested at PF20
FCBGD10CD1CP5	Finisar	12x	0.5	N/A	Active - Fiber	CXP	Yes	Tested at PF21
FCBGD10CD1CX0	Finisar	12x	100	N/A	Active - Fiber	CXP	Yes	Tested at PF21
FCBG410QB1CP5	Finisar	4x	0.5	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
FCBG410QB1C05	Finisar	4x	5	N/A	Active - Fiber	QSFP	PBR	Added by Reference
FCBG410QB1C20	Finisar	4x	20	N/A	Active - Fiber	QSFP	PBR	Added by Reference
FCBG410QB1C30	Finisar	4x	30	N/A	Active - Fiber	QSFP	PBR	Added by Reference
FCBG410QB1CX0	Finisar	4x	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
FTL410QE1C	Finisar	4x	N/A	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
FTL410QE1C	Finisar	4x	N/A	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
2GSPWWX-P03G-EF	Foxconn	4x	1	32	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P06G-EF	Foxconn	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWB-63G-EF	Foxconn	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWB-64G-EF	Foxconn	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
2GSPWWX-65G-EF	Foxconn	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P10G-EF	Foxconn	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWC-66G-EF	Foxconn	4x	5	24	Unequalized	QSFP	Yes	Tested at PF20
2GSPWWX-P13G-EF	Foxconn	4x	6	24	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-24G-EF	Foxconn	4x	7	24	Unequalized	QSFP	Yes	Tested at PF21
FUJIKURAAWG2604M	Fujikura Ltd	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
FUJIKURAAWG2605M	Fujikura Ltd	4x	5	26	Unequalized	QSFP	Yes	Tested at PF20
15401M001BKA01	Hitachi Cable Manchester	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
15002M001BKA01	Hitachi Cable Manchester	4x	1	28	Unequalized	QSFP	Yes	On-Demand
15003M001BKA01	Hitachi Cable Manchester	4x	1	26	Unequalized	QSFP	Yes	On-Demand
15401M002BKA01	Hitachi Cable Manchester	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
15001M003BKA01	Hitachi Cable Manchester	4x	3	30	Unequalized	QSFP	Yes	On-Demand
15403M003BKA01	Hitachi Cable Manchester	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
15002M004BKA01	Hitachi Cable Manchester	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20



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Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	DDR	
15003M004BKA01	Hitachi Cable Manchester	4x	4	26	Unequalized	QSFP	Yes	On-Demand
MC1204130-001	Mellanox	4x	1	30	Unequalized	Hybrid - CX4 & QSFP	Yes	Tested at PF20
MC1204130-002	Mellanox	4x	2	30	Unequalized	Hybrid - CX4 & QSFP	Yes	Tested at PF20
MC1204130-003	Mellanox	4x	3	30	Unequalized	Hybrid - CX4 & QSFP	Yes	Tested at PF20
MC1204128-005	Mellanox	4x	5	28	Unequalized	Hybrid - CX4 & QSFP	Yes	Tested at PF20
MC2206310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-005	Mellanox	4X	5	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206230-008	Mellanox	4X	8	30	Full Active - Copper	QSFP	Yes	Tested at PF21
MC2206230-010	Mellanox	4X	10	28	Full Active - Copper	QSFP	Yes	Tested at PF21
MC2207130-00A	Mellanox	4X	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-00A	Mellanox	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-001	Mellanox	4X	1	30	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-001	Mellanox	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-0A1	Mellanox	4X	1.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-002	Mellanox	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-002	Mellanox	4X	2	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207128-0A2	Mellanox	4X	2.5	28	Unequalized	QSFP	Yes	Tested at PF21
MC2207128-003	Mellanox	4X	3	28	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-003	Mellanox	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
MC2206128-004	Mellanox	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
MC2207126-004	Mellanox	4x	4	25	Unequalized	QSFP	Yes	Tested at PF20
MC2206128-005	Mellanox	4X	5	25	Unequalized	QSFP	Yes	Tested at PF21
MC2206128-005	Mellanox	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
MC2207126-005	Mellanox	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
9846-D-F-01.0	Meritec	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
9846-D-F-01.0	Meritec	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
9846-D-02.0	Meritec	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
9846-C-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Tested at PF21
9846-C-F-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
9846-C-F-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
9846-D-03.0	Meritec	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21



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9846-C-03.0	Meritec	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
9846-B-F-03.0	Meritec	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
9846-B-F-03.0	Meritec	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
9846-C-04.0	Meritec	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
9846-B-04.0	Meritec	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
9846-A-04.0	Meritec	4x	4	25	Unequalized	QSFP	Yes	Tested at PF21
9846-D-F-04.0	Meritec	4x	4	25	Unequalized	QSFP	Yes	Tested at PF20
9846-A-04.0	Meritec	4x	4	24	Unequalized	QSFP	Yes	Tested at PF21
9846-B-05.0	Meritec	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
9846-A-05.0	Meritec	4x	5	24	Unequalized	QSFP	Yes	Tested at PF21
9846-A-06.0	Meritec	4x	6	24	Unequalized	QSFP	Yes	Tested at PF21
106410-1001	Molex Incorporated	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
106411-1001	Molex Incorporated	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
106410-1300	Molex Incorporated	4x	300	NA	Active - Fiber	QSFP	Yes	Tested at PF21
106411-1300	Molex Incorporated	4x	300	NA	Active - Fiber	QSFP	Yes	Tested at PF21
1111821206	Molex Incorporated	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
1111821306	Molex Incorporated	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
1111822306	Molex Incorporated	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
1111821351	Molex Incorporated	4x	3.5	30	Unequalized	QSFP	Yes	Tested at PF21
1111821401	Molex Incorporated	4x	4	30	Unequalized	QSFP	Yes	Tested at PF21
1111822406	Molex Incorporated	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
QSFPO-40G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-025-01	Samtec	4x	25	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-035-01	Samtec	4x	35	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-045-01	Samtec	4x	45	NA	Active - Fiber	QSFP	PBR	Added by Reference



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		Cable Information					Integrators' List	Qualification
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QSFPO-40G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-075-01	Samtec	4x	75	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPFDR30-02	Siemon	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR28-03	Siemon	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR26-04	Siemon	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR25-05	Siemon	4x	5	25	Unequalized	QSFP	Yes	Tested at PF21
2123603-2	TE Connectivity	4x	3	0	Active - Fiber	QSFP	Yes	Tested at PF21
2123287-4	TE Connectivity	4x	10	0	Active - Fiber	QSFP	Yes	Tested at PF21
1-2123287-1	TE Connectivity	4x	100	0	Active - Fiber	QSFP	Yes	Tested at PF21
1-2123603-1	TE Connectivity	4x	100	0	Active - Fiber	QSFP	Yes	Tested at PF21
VAHS-30-0221	Volex	12x	0.5	30	Unequalized	CXP	Yes	Tested at PF21
VAHS-26-0176	Volex	12x	4	26	Unequalized	Hybrid - CXP & QSFP	Yes	Tested at PF21
VAHS-26-0201	Volex	12x	5	26	Unequalized	Hybrid - CXP & QSFP	Yes	Tested at PF20
VAHS-30-0291	Volex	4x	7	30	Limiting Active - Copper	QSFP	Yes	Tested at PF21
VAHS-28-0266	Volex	4x	7	28	Limiting Active - Copper	QSFP	Yes	Tested at PF21
VAHS-26-0194	Volex	4x	8	26	Limiting Active - Copper	QSFP	Yes	Tested at PF21
VSHS-26-0202	Volex	4x	10	26	Limiting Active - Copper	QSFP	Yes	Tested at PF21
VAHS-32-0046	Volex	4x	0.5	32	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0286	Volex	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-32-0047	Volex	4x	1	32	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0408	Volex	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0296	Volex	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-1.5	Volex	4x	1.5	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-32-0048	Volex	4x	2	32	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0409	Volex	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0294	Volex	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0435	Volex	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
VAHS-28-0348	Volex	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0226	Volex	4x	2	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-2	Volex	4x	2	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0003	Volex	4x	2	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0297	Volex	4x	2.5	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-2.5	Volex	4x	2.5	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-30-0287	Volex	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-28-0273	Volex	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20



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		Cable Information					Integrators' List	Qualification
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VAHS-28-0349	Volex	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-28-0394	Volex	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0252	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0205	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-3	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0007	Volex	4x	3	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0206	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0253	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-28-0274	Volex	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-28-0206	Volex	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0197	Volex	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0263	Volex	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0002	Volex	4x	4	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0023	Volex	4x	4	25	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0198	Volex	4x	5	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0191	Volex	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0011	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0015	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0036	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0012	Volex	4x	6	25	Unequalized	QSFP	Yes	Tested at PF20



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
6A22-A0421-002.0-0	3M Company	4x	2	50u	Active - Fiber	QSFP	Yes	Tested at PF21
6A22-A0421-003.0-0	3M Company	4x	3	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-004.0-0	3M Company	4x	4	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-005.0-0	3M Company	4x	5	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-006.0-0	3M Company	4x	6	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-007.0-0	3M Company	4x	7	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-008.0-0	3M Company	4x	8	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-009.0-0	3M Company	4x	9	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-010.0-0	3M Company	4x	10	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-011.0-0	3M Company	4x	11	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-012.0-0	3M Company	4x	12	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-013.0-0	3M Company	4x	13	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-014.0-0	3M Company	4x	14	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-015.0-0	3M Company	4x	15	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-016.0-0	3M Company	4x	16	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-017.0-0	3M Company	4x	17	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-018.0-0	3M Company	4x	18	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-019.0-0	3M Company	4x	19	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-020.0-0	3M Company	4x	20	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-021.0-0	3M Company	4x	21	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-022.0-0	3M Company	4x	22	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-023.0-0	3M Company	4x	23	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-024.0-0	3M Company	4x	24	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-025.0-0	3M Company	4x	25	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-026.0-0	3M Company	4x	26	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-027.0-0	3M Company	4x	27	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-028.0-0	3M Company	4x	28	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-029.0-0	3M Company	4x	29	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-030.0-0	3M Company	4x	30	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-035.0-0	3M Company	4x	35	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-040.0-0	3M Company	4x	40	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-045.0-0	3M Company	4x	45	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-050.0-0	3M Company	4x	50	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-060.0-0	3M Company	4x	60	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-070.0-0	3M Company	4x	70	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-080.0-0	3M Company	4x	80	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-090.0-0	3M Company	4x	90	50u	Active - Fiber	QSFP	PBR	Added by Reference
6A22-A0421-100.0-0	3M Company	4x	100	50u	Active - Fiber	QSFP	Yes	Tested at PF21



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
6B2A-0412A-0	3M Company	4x	100	50u	Active - Fiber	QSFP	Yes	On-Demand
9QA0-111-12-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-112-12-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-12-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-112-12-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-12-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-112-12-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	On-Demand
9QA0-111-12-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
9QA0-112-12-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-12-3.50	3M Company	4x	3.5	30	Unequalized	QSFP	Yes	Tested at PF21
APFN-AOC-001	Advanced Photonics, Inc	4x	1	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
APFN-AOC-003	Advanced Photonics, Inc	4x	3	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-005	Advanced Photonics, Inc	4x	5	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-010	Advanced Photonics, Inc	4x	10	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-015	Advanced Photonics, Inc	4x	15	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-020	Advanced Photonics, Inc	4x	20	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-030	Advanced Photonics, Inc	4x	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
APFN-AOC-050	Advanced Photonics, Inc	4x	50	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-070	Advanced Photonics, Inc	4x	70	N/A	Active - Fiber	QSFP	PBR	Added by Reference
APFN-AOC-100	Advanced Photonics, Inc	4x	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
610620001	Amphenol	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
604210001	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
610620002	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
610620003	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
604210002	Amphenol	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
604210003	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
610620004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
582090004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
610620005	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
582090006	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
582090013	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
7170800025	Cinch Connectors Inc.	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
7170800009	Cinch Connectors Inc.	4x	2	28	Unequalized	QSFP	Yes	Tested at PF21



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Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
7170800007	Cinch Connectors Inc.	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
7170800047	Cinch Connectors Inc.	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
7170800044	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
7170800049	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
7170800043	Cinch Connectors Inc.	4x	5	26	Unequalized	QSFP	Yes	Tested at PF20
ALLT01FQPA	Emcore Corporation	4x	1	n	Active - Fiber	QSFP	Yes	Tested at PF21
ALLT10FQPA	Emcore Corporation	4x	10	n	Active - Fiber	QSFP	Yes	Tested at PF21
ICD120GVP2410-01	FCI	12x	1	NA	Active - Fiber	CXP	Yes	Tested at PF21
ICD120GVP2410-20	FCI	12x	20	NA	Active - Fiber	CXP	Yes	Tested at PF21
ICD120GVP2410-C0	FCI	12x	100	NA	Active - Fiber	CXP	Yes	Tested at PF21
10116951-2005LF	FCI	12x	0.5	30	Unequalized	CXP	Yes	Tested at PF21
10116951-2023LF	FCI	12x	2.3	30	Unequalized	CXP	Yes	Tested at PF21
10116951-4030LF	FCI	12x	3	26	Unequalized	CXP	Yes	Tested at PF21
ICD040GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
ICD056GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
ICD040GVP163D-20	FCI	4x	20	NA	Active - Fiber	QSFP	Yes	Tested at PF21
ICD040GVP163D-C0	FCI	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
10119239-2005LF	FCI	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
10119239-4005LF	FCI	4x	0.5	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-1010LF	FCI	4x	1	32	Unequalized	QSFP	Yes	Tested at PF20
10093084-2010LF	FCI	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
10119239-2010LF	FCI	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
10093084-3010LF	FCI	4x	1	28	Unequalized	QSFP	Yes	Tested at PF20
10119239-4010LF	FCI	4x	1	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-1020LF	FCI	4x	2	32	Unequalized	QSFP	Yes	Tested at PF20
10119239-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
10093084-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
10119239-4020LF	FCI	4x	2	26	Unequalized	QSFP	Yes	Tested at PF21
10119239-2025LF	FCI	4x	2.5	30	Unequalized	QSFP	Yes	Tested at PF21
10093084-2030LF	FCI	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
10093084-3030LF	FCI	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
10119239-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
10093084-3040LF	FCI	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
10119239-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
10093084-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
10093084-4045LF	FCI	4x	4.5	26	Unequalized	QSFP	Yes	Tested at PF20
FCBGD10CD1CP5	Finisar	12x	0.5	N/A	Active - Fiber	CXP	Yes	Tested at PF21



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
FCBGD10CD1CX0	Finisar	12x	100	N/A	Active - Fiber	CXP	Yes	Tested at PF21
FCBG410QB1CP5	Finisar	4x	0.5	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
FCBG410QB1C05	Finisar	4x	5	N/A	Active - Fiber	QSFP	Yes	Added by Reference
FCBG410QB1C20	Finisar	4x	20	N/A	Active - Fiber	QSFP	Yes	Added by Reference
FCBG410QB1C30	Finisar	4x	30	N/A	Active - Fiber	QSFP	Yes	Added by Reference
FCBG410QB1CX0	Finisar	4x	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
FTL410QE1C	Finisar	4x	N/A	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
FTL410QE1C	Finisar	4x	N/A	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
2GSPWWX-P03G-EF	Foxconn	4x	1	32	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P06G-EF	Foxconn	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWB-63G-EF	Foxconn	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWB-64G-EF	Foxconn	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
2GSPWWX-65G-EF	Foxconn	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P10G-EF	Foxconn	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWC-66G-EF	Foxconn	4x	5	24	Unequalized	QSFP	Yes	Tested at PF20
2GSPWWX-P13G-EF	Foxconn	4x	6	24	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-24G-EF	Foxconn	4X	7	24	Unequalized	QSFP	Yes	Tested at PF21
FUJIKURAAWG2604M	Fujikura Ltd	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
FUJIKURAAWG2605M	Fujikura Ltd	4x	5	26	Unequalized	QSFP	Yes	Tested at PF20
15401M001BKA01	Hitachi Cable Manchester	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
15401M002BKA01	Hitachi Cable Manchester	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
15001M003BKA01	Hitachi Cable Manchester	4x	3	30	Unequalized	QSFP	Yes	On-Demand
15002M004BKA01	Hitachi Cable Manchester	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
15003M004BKA01	Hitachi Cable Manchester	4x	4	26	Unequalized	QSFP	Yes	On-Demand
MC2206310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-005	Mellanox	4X	5	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2206310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207130-00A	Mellanox	4X	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-00A	Mellanox	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-001	Mellanox	4X	1	30	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-001	Mellanox	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-0A1	Mellanox	4X	1.5	30	Unequalized	QSFP	Yes	Tested at PF21



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
MC2206130-002	Mellanox	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-002	Mellanox	4X	2	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207128-0A2	Mellanox	4X	2.5	28	Unequalized	QSFP	Yes	Tested at PF21
MC2206130-003	Mellanox	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207128-003	Mellanox	4X	3	28	Unequalized	QSFP	Yes	Tested at PF21
MC2206128-004	Mellanox	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
MC2207126-004	Mellanox	4x	4	25	Unequalized	QSFP	Yes	Tested at PF20
MC2206128-005	Mellanox	4X	5	25	Unequalized	QSFP	Yes	Tested at PF21
MC2206128-005	Mellanox	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
MC2207126-005	Mellanox	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
9846-D-F-01.0	Meritec	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
9846-D-F-01.0	Meritec	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
9846-D-02.0	Meritec	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
9846-C-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Tested at PF21
9846-C-F-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
9846-C-F-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
9846-D-03.0	Meritec	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
9846-C-03.0	Meritec	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
9846-B-F-03.0	Meritec	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
9846-B-F-03.0	Meritec	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
9846-C-04.0	Meritec	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
9846-B-04.0	Meritec	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
9846-A-04.0	Meritec	4x	4	25	Unequalized	QSFP	Yes	Tested at PF21
9846-D-F-04.0	Meritec	4x	4	25	Unequalized	QSFP	Yes	Tested at PF20
9846-A-04.0	Meritec	4x	4	24	Unequalized	QSFP	Yes	Tested at PF21
9846-A-05.0	Meritec	4x	5	24	Unequalized	QSFP	Yes	Tested at PF21
9846-A-06.0	Meritec	4x	6	24	Unequalized	QSFP	Yes	Tested at PF21
106410-1001	Molex Incorporated	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
106410-1300	Molex Incorporated	4x	300	NA	Active - Fiber	QSFP	Yes	Tested at PF21
1111821206	Molex Incorporated	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
1111821306	Molex Incorporated	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
1111822306	Molex Incorporated	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
1111821351	Molex Incorporated	4x	3.5	30	Unequalized	QSFP	Yes	Tested at PF21
1111821401	Molex Incorporated	4x	4	30	Unequalized	QSFP	Yes	Tested at PF21
1111822406	Molex Incorporated	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
QSFPO-40G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	PBR	Added by Reference



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
QSFPO-56G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-40G-025-01	Samtec	4x	25	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-035-01	Samtec	4x	35	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-045-01	Samtec	4x	45	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-075-01	Samtec	4x	75	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-40G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPFDR26-04	Siemon	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR25-05	Siemon	4x	5	25	Unequalized	QSFP	Yes	Tested at PF21
2123287-4	TE Connectivity	4x	10	0	Active - Fiber	QSFP	Yes	Tested at PF21
1-2123287-1	TE Connectivity	4x	100	0	Active - Fiber	QSFP	Yes	Tested at PF21
VAHS-30-0221	Volex	12x	0.5	30	Unequalized	CXP	Yes	Tested at PF21
VAHS-26-0176	Volex	12x	4	26	Unequalized	Hybrid - CXP & QSFP	Yes	Tested at PF21
VAHS-30-0286	Volex	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-32-0047	Volex	4x	1	32	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0408	Volex	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0296	Volex	4x	1	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-32-0048	Volex	4x	2	32	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0409	Volex	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0294	Volex	4x	2	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-28-0348	Volex	4x	2	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0226	Volex	4x	2	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-2	Volex	4x	2	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0003	Volex	4x	2	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-30-0297	Volex	4x	2.5	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-2.5	Volex	4x	2.5	26	Unequalized	QSFP	Yes	Tested at PF21



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	QDR	
VAHS-30-0287	Volex	4x	3	30	Unequalized	QSFP	Yes	Tested at PF20
VAHS-28-0273	Volex	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-28-0349	Volex	4x	3	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0252	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0205	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0276-3	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0007	Volex	4x	3	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0206	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0253	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-28-0274	Volex	4x	4	28	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0197	Volex	4x	4	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-26-0263	Volex	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0002	Volex	4x	4	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0023	Volex	4x	4	25	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0198	Volex	4x	5	26	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0011	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0015	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF20
VAHS-25-0036	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0012	Volex	4x	6	25	Unequalized	QSFP	Yes	Tested at PF20



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		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	FDR	
9QA0-111-13-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	On-Demand
9QA0-111-13-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
APFN-AOC-001	Advanced Photonics, Inc	4x	1	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
610620002	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Tested at PF21
610620003	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
610620004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
7170800009	Cinch Connectors Inc.	4x	2	28	Unequalized	QSFP	Yes	Tested at PF21
7170800007	Cinch Connectors Inc.	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
7170800047	Cinch Connectors Inc.	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
7170800044	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
ALLT01FQPA	Emcore Corporation	4x	1	n	Active - Fiber	QSFP	Yes	Tested at PF21
ICD056GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
10119239-2005LF	FCI	4x	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
10119239-4005LF	FCI	4x	0.5	26	Unequalized	QSFP	Yes	Tested at PF21
10119239-4010LF	FCI	4x	1	26	Unequalized	QSFP	Yes	Tested at PF21
10119239-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
10119239-4020LF	FCI	4x	2	26	Unequalized	QSFP	Yes	Tested at PF21
10119239-2025LF	FCI	4x	2.5	30	Unequalized	QSFP	Yes	Tested at PF21
10119239-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
10119239-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P06G-EF	Foxconn	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWB-63G-EF	Foxconn	4x	3	30	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-65G-EF	Foxconn	4x	4	28	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P10G-EF	Foxconn	4x	5	26	Unequalized	QSFP	Yes	Tested at PF21
2GSPWWX-P13G-EF	Foxconn	4x	6	24	Unequalized	QSFP	Yes	Tested at PF21
MC2207310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-005	Mellanox	4X	5	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Tested at PF21
MC2207130-00A	Mellanox	4X	0.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-001	Mellanox	4X	1	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-0A1	Mellanox	4X	1.5	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207130-002	Mellanox	4X	2	30	Unequalized	QSFP	Yes	Tested at PF21
MC2207128-0A2	Mellanox	4X	2.5	28	Unequalized	QSFP	Yes	Tested at PF21
MC2207128-003	Mellanox	4X	3	28	Unequalized	QSFP	Yes	Tested at PF21



IBTA Integrators' List

April 2012 **FDR** Compliant Cables



		Cable Information					Integrators' List	Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	FDR	
1111821351	Molex Incorporated	4x	3.5	30	Unequalized	QSFP	Yes	Tested at PF21
1111821401	Molex Incorporated	4x	4	30	Unequalized	QSFP	Yes	Tested at PF21
QSFPO-56G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPO-56G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-075-01	Samtec	4x	75	NA	Active - Fiber	QSFP	PBR	Added by Reference
QSFPO-56G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	Tested at PF21
QSFPFDR30-02	Siemon	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR28-03	Siemon	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR26-04	Siemon	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
QSFPFDR25-05	Siemon	4x	5	25	Unequalized	QSFP	Yes	Tested at PF21
VAHS-30-0435	Volex	4x	2	30	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0276-2	Volex	4x	2	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-28-0394	Volex	4x	3	28	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0276-3	Volex	4x	3	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0253	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-26-0263	Volex	4x	4	26	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0023	Volex	4x	4	25	Unequalized	QSFP	Yes	Tested at PF21
VAHS-25-0036	Volex	4x	5	25	Unequalized	QSFP	Yes	Tested at PF21



IBTA Integrators' List

April 2012 **QDR** Interoperability List



The following Interoperability results are provided as a supplement to the compliance results provided in the Integrators List. The Interoperability results are informative only and are not a pre-requisite for devices or cable assemblies to be listed in the Compliance section of the Integrators List. These results represent system tests and include the testing of the entire environment including device transmitters, cable media and device receivers. The Interoperability results include both DDR and QDR devices and cables.

While every effort was made to test worst-case conditions, results may vary with alternative port configurations, device and cable manufacturing variation, device firmware and software, traffic density and data patterns, temperature variation, etc. The following documentation identifies the test conditions used to obtain these Interoperability results.

Legend used in Interoperability results	
Interop Legend	Description
M2Q HCA 2 SW	Mellanox HCA to Intel Switch
Q2M HCA 2 SW	Intel HCA to Mellanox Switch
M2Q SW 2 SW	Mellanox Switch to Intel Switch

Conditions for passing Interop	
Link Width	Link width is @ expected width - i.e. 1x,4x, etc
Link Speed	Link speed is @ expected speed - i.e. DDR or QDR
Link Recovery	There must be no errors during the MPI Run
Port Receive Errors	There must be no errors during the MPI Run
Symbol Errors	There must be no errors during the MPI Run
Port xmit Discard	There must be no discards during the MPI Run
MPI Test	The MPI test must run to completion without error

Manufacturer	Description of Hardware	Model	Type	HW	FW	SW	Speed	Status
Mellanox	ConnectX®-2 VPI card, 4X QSFP 40Gb/s InfiniBand	MHQH29C-XTR	HCA	B0	2.9.1170	1.5.4.1	QDR	Compliant
Intel	Intel® True Scale Fabric HCA, Single Port	QLE7340	HCA	003	N/A	1.5.4.1	QDR	Compliant
Intel	Intel® True Scale Fabric HCA, Dual Port	QLE7342	HCA	003	N/A	1.5.4.1	QDR	Compliant
Mellanox	InfiniScale® IV QDR InfiniBand Switch, 36 QSFP	MIS5030Q	Switch	X1	9.0.3180	1.1.2500	QDR	Compliant
Intel	Intel® True Scale Fabric Edge Switch 12200	12200	Switch	003	7.1.0.0.48	6.1.1.0.7	QDR	Compliant

Software	Versions
OFED Version	OFED 1.5.4.1
Open MPI Used	Open MPI 1.4.3-1
Test Plan version	OFA-IWG Interoperability Test Plan Release 1.42
Test Duration	3-15 minutes



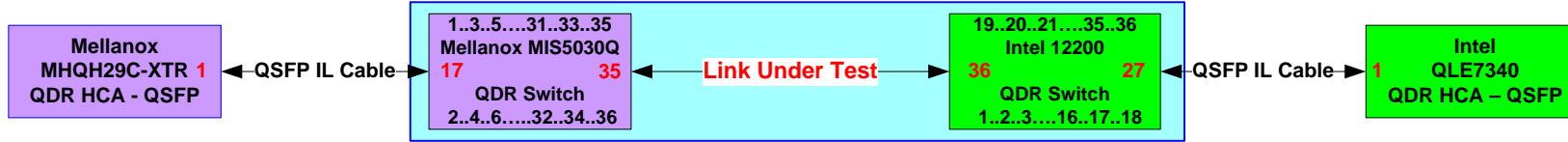
IBTA Integrators' List

April 2012 QDR Interoperability List

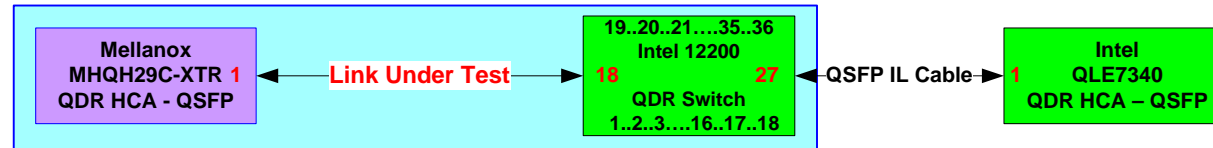


QDR Interoperability Test Environments

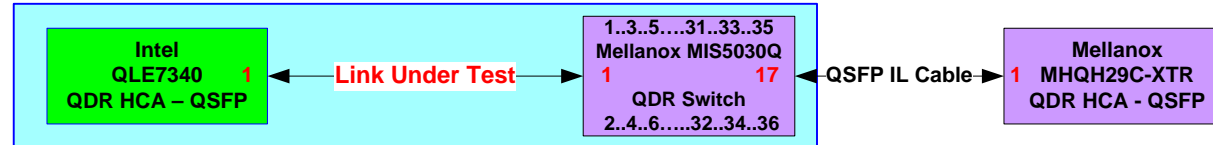
QDR Interop - Mellanox Switch to Intel Switch



QDR Interop - Mellanox HCA to Intel Switch



QDR Interop - Intel HCA to Mellanox Switch





IBTA Integrators' List

April 2012 QDR Interoperability List



		Cable Information					QDR Interop Results			Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
6A44-B0421-002.0-0	3M Company	4x	2	50u	Active - Fiber	CX4	N/A	N/A	N/A	Tested at PF20
6A44-B0421-003.0-0	3M Company	4x	3	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-004.0-0	3M Company	4x	4	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-005.0-0	3M Company	4x	5	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-006.0-0	3M Company	4x	6	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-007.0-0	3M Company	4x	7	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-008.0-0	3M Company	4x	8	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-009.0-0	3M Company	4x	9	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-010.0-0	3M Company	4x	10	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-011.0-0	3M Company	4x	11	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-012.0-0	3M Company	4x	12	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-013.0-0	3M Company	4x	13	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-014.0-0	3M Company	4x	14	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-015.0-0	3M Company	4x	15	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-016.0-0	3M Company	4x	16	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-017.0-0	3M Company	4x	17	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-018.0-0	3M Company	4x	18	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-019.0-0	3M Company	4x	19	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-020.0-0	3M Company	4x	20	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-021.0-0	3M Company	4x	21	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-022.0-0	3M Company	4x	22	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-023.0-0	3M Company	4x	23	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-024.0-0	3M Company	4x	24	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-025.0-0	3M Company	4x	25	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-026.0-0	3M Company	4x	26	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-027.0-0	3M Company	4x	27	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-028.0-0	3M Company	4x	28	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-029.0-0	3M Company	4x	29	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-030.0-0	3M Company	4x	30	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-035.0-0	3M Company	4x	35	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-040.0-0	3M Company	4x	40	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-045.0-0	3M Company	4x	45	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-050.0-0	3M Company	4x	50	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-060.0-0	3M Company	4x	60	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-070.0-0	3M Company	4x	70	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-080.0-0	3M Company	4x	80	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-090.0-0	3M Company	4x	90	50u	Active - Fiber	CX4	NT	NT	NT	Added by Reference
6A44-B0421-100.0-0	3M Company	4x	100	50u	Active - Fiber	CX4	N/A	N/A	N/A	Tested at PF20
6A22-A0421-002.0-0	3M Company	4x	2	50u	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
6A22-A0421-003.0-0	3M Company	4x	3	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-004.0-0	3M Company	4x	4	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-005.0-0	3M Company	4x	5	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference



IBTA Integrators' List

April 2012 QDR Interoperability List



		Cable Information					QDR Interop Results			Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
6A22-A0421-006.0-0	3M Company	4x	6	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-007.0-0	3M Company	4x	7	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-008.0-0	3M Company	4x	8	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-009.0-0	3M Company	4x	9	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-010.0-0	3M Company	4x	10	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-011.0-0	3M Company	4x	11	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-012.0-0	3M Company	4x	12	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-013.0-0	3M Company	4x	13	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-014.0-0	3M Company	4x	14	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-015.0-0	3M Company	4x	15	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-016.0-0	3M Company	4x	16	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-017.0-0	3M Company	4x	17	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-018.0-0	3M Company	4x	18	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-019.0-0	3M Company	4x	19	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-020.0-0	3M Company	4x	20	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-021.0-0	3M Company	4x	21	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-022.0-0	3M Company	4x	22	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-023.0-0	3M Company	4x	23	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-024.0-0	3M Company	4x	24	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-025.0-0	3M Company	4x	25	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-026.0-0	3M Company	4x	26	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-027.0-0	3M Company	4x	27	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-028.0-0	3M Company	4x	28	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-029.0-0	3M Company	4x	29	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-030.0-0	3M Company	4x	30	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-035.0-0	3M Company	4x	35	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-040.0-0	3M Company	4x	40	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-045.0-0	3M Company	4x	45	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-050.0-0	3M Company	4x	50	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-060.0-0	3M Company	4x	60	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-070.0-0	3M Company	4x	70	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-080.0-0	3M Company	4x	80	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-090.0-0	3M Company	4x	90	50u	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
6A22-A0421-100.0-0	3M Company	4x	100	50u	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
6B2A-0412A-0	3M Company	4x	100	50u	Active - Fiber	QSFP	Yes	No	Yes	On-Demand
9QA0-111-12-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9QA0-112-12-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-13-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-12-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-112-12-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-13-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-12-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20



IBTA Integrators' List

April 2012 QDR Interoperability List



		Cable Information					QDR Interop Results			Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
9QA0-112-12-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	On-Demand
9QA0-111-12-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9QA0-112-12-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-13-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-12-3.50	3M Company	4x	3.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9QA0-111-12-4.00	3M Company	4x	4	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
APFN-AOC-001	Advanced Photonics, Inc	4x	1	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
APFN-AOC-003	Advanced Photonics, Inc	4x	3	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-005	Advanced Photonics, Inc	4x	5	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-010	Advanced Photonics, Inc	4x	10	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-015	Advanced Photonics, Inc	4x	15	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-020	Advanced Photonics, Inc	4x	20	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-030	Advanced Photonics, Inc	4x	30	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
APFN-AOC-050	Advanced Photonics, Inc	4x	50	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-070	Advanced Photonics, Inc	4x	70	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
APFN-AOC-100	Advanced Photonics, Inc	4x	100	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
610620001	Amphenol	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
604210001	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
610620002	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
610620003	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090002	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
604210002	Amphenol	4x	2	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
604210003	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
610620004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090005	Amphenol	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
610620005	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090006	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090013	Amphenol	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090007	Amphenol	4x	6	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
582090008	Amphenol	4x	7	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
APMA01041401-010	Applied Micro	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
7170800025	Cinch Connectors Inc.	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
7170800009	Cinch Connectors Inc.	4x	2	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
7170800007	Cinch Connectors Inc.	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
7170800047	Cinch Connectors Inc.	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
7170800044	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
7170800049	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
7170800043	Cinch Connectors Inc.	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
ALLT01FQPA	Emcore Corporation	4x	1	n	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21



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		Cable Information					QDR Interop Results			Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
ALLT10FQPA	Emcore Corporation	4x	10	n	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
ALLTAAFQPA	Emcore Corporation	4x	100	n	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
ICD120GVP2410-01	FCI	12x	1	NA	Active - Fiber	CXP	N/A	N/A	N/A	Tested at PF21
ICD120GVP2410-20	FCI	12x	20	NA	Active - Fiber	CXP	N/A	N/A	N/A	Tested at PF21
ICD120GVP2410-C0	FCI	12x	100	NA	Active - Fiber	CXP	N/A	N/A	N/A	Tested at PF21
10116951-2005LF	FCI	12x	0.5	30	Unequalized	CXP	N/A	N/A	N/A	Tested at PF21
10116951-2023LF	FCI	12x	2.3	30	Unequalized	CXP	N/A	N/A	N/A	Tested at PF21
10116951-4030LF	FCI	12x	3	26	Unequalized	CXP	N/A	N/A	N/A	Tested at PF21
10116951-4043LF	FCI	12x	4.3	26	Unequalized	CXP	N/A	N/A	N/A	Tested at PF21
ICD120GVP2420-10	FCI	12x	10	NA	Active - Fiber	Hybrid - CXP & QSFP	N/A	N/A	N/A	Tested at PF21
ICD056GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
ICD040GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
ICD040GVP163D-20	FCI	4x	20	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
ICD040GVP163D-C0	FCI	4x	100	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
10119239-2005LF	FCI	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10119239-4005LF	FCI	4x	0.5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10093084-1010LF	FCI	4x	1	32	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10093084-2010LF	FCI	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10119239-2010LF	FCI	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10093084-3010LF	FCI	4x	1	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10119239-4010LF	FCI	4x	1	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10093084-1020LF	FCI	4x	2	32	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10119239-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10093084-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10119239-4020LF	FCI	4x	2	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10119239-2025LF	FCI	4x	2.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10093084-2030LF	FCI	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10093084-3030LF	FCI	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10119239-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10093084-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10093084-3040LF	FCI	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10119239-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
10093084-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
10093084-4045LF	FCI	4x	4.5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
FCBGD10CD1CP5	Finisar	12x	0.5	N/A	Active - Fiber	CXP	N/A	N/A	N/A	Tested at PF21
FCBGD10CD1CX0	Finisar	12x	100	N/A	Active - Fiber	CXP	N/A	N/A	N/A	Tested at PF21
FCBG410QB1CP5	Finisar	4x	0.5	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
FCBG410QB1C05	Finisar	4x	5	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
FCBG410QB1C20	Finisar	4x	20	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
FCBG410QB1C30	Finisar	4x	30	N/A	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
FCBG410QB1CX0	Finisar	4x	100	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
FTL410QE1C	Finisar	4x	N/A	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21



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Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
FTL410QE1C	Finisar	4x	N/A	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWX-P03G-EF	Foxconn	4x	1	32	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWX-P06G-EF	Foxconn	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWB-63G-EF	Foxconn	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWB-64G-EF	Foxconn	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
2GSPWWX-65G-EF	Foxconn	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWX-P10G-EF	Foxconn	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWC-66G-EF	Foxconn	4x	5	24	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
2GSPWWX-P13G-EF	Foxconn	4x	6	24	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2GSPWWX-24G-EF	Foxconn	4X	7	24	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
FUJIKURAAWG2604M	Fujikura Ltd	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
FUJIKURAAWG2605M	Fujikura Ltd	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
15401M001BKA01	Hitachi Cable Manchester	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
15002M001BKA01	Hitachi Cable Manchester	4x	1	28	Unequalized	QSFP	Yes	Yes	Yes	On-Demand
15003M001BKA01	Hitachi Cable Manchester	4x	1	26	Unequalized	QSFP	Yes	Yes	Yes	On-Demand
15401M002BKA01	Hitachi Cable Manchester	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
15001M003BKA01	Hitachi Cable Manchester	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	On-Demand
15403M003BKA01	Hitachi Cable Manchester	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
15002M004BKA01	Hitachi Cable Manchester	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
15003M004BKA01	Hitachi Cable Manchester	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	On-Demand
MC1204130-001	Mellanox	4x	1	30	Unequalized	Hybrid - CX4 & QSFP	N/A	N/A	N/A	Tested at PF20
MC1204130-002	Mellanox	4x	2	30	Unequalized	Hybrid - CX4 & QSFP	N/A	N/A	N/A	Tested at PF20
MC1204130-003	Mellanox	4x	3	30	Unequalized	Hybrid - CX4 & QSFP	N/A	N/A	N/A	Tested at PF20
MC1204128-005	Mellanox	4x	5	28	Unequalized	Hybrid - CX4 & QSFP	N/A	N/A	N/A	Tested at PF20
MC2206310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207310-005	Mellanox	4X	5	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206230-008	Mellanox	4X	8	30	Full Active - Copper	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206230-010	Mellanox	4X	10	28	Full Active - Copper	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207130-00A	Mellanox	4X	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206130-00A	Mellanox	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207130-001	Mellanox	4X	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206130-001	Mellanox	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207130-0A1	Mellanox	4X	1.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206130-002	Mellanox	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207130-002	Mellanox	4X	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21



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Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
MC2207128-0A2	Mellanox	4X	2.5	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207128-003	Mellanox	4X	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206130-003	Mellanox	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206128-004	Mellanox	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2207126-004	Mellanox	4x	4	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
MC2206128-005	Mellanox	4X	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
MC2206128-005	Mellanox	4x	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
MC2207126-005	Mellanox	4x	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-D-F-01.0	Meritec	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-D-F-01.0	Meritec	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-D-02.0	Meritec	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-C-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-C-F-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-C-F-02.0	Meritec	4x	2	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-D-03.0	Meritec	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-C-03.0	Meritec	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-B-F-03.0	Meritec	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-B-F-03.0	Meritec	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-C-04.0	Meritec	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-B-04.0	Meritec	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-A-04.0	Meritec	4x	4	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-D-F-04.0	Meritec	4x	4	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
9846-A-04.0	Meritec	4x	4	24	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-B-05.0	Meritec	4x	5	26	Unequalized	QSFP	Yes	Yes	No	Tested at PF21
9846-A-05.0	Meritec	4x	5	24	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
9846-A-06.0	Meritec	4x	6	24	Unequalized	QSFP	No	Yes	No	Tested at PF21
106410-1001	Molex Incorporated	4x	1	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
106411-1001	Molex Incorporated	4x	1	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
106410-1300	Molex Incorporated	4x	300	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
106411-1300	Molex Incorporated	4x	300	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
1111821206	Molex Incorporated	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
1111821306	Molex Incorporated	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
1111822306	Molex Incorporated	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
1111821351	Molex Incorporated	4x	3.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
1111821401	Molex Incorporated	4x	4	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
1111822406	Molex Incorporated	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
QSFPO-40G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPO-56G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPO-40G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-56G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
QSFPO-40G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPO-56G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21



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		Cable Information					QDR Interop Results			Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
QSFPO-40G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-56G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
QSFPO-56G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-025-01	Samtec	4x	25	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-56G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-035-01	Samtec	4x	35	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-56G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-045-01	Samtec	4x	45	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
QSFPO-56G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-56G-075-01	Samtec	4x	75	NA	Active - Fiber	QSFP	NT	NT	NT	Added by Reference
QSFPO-40G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
QSFPO-56G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPFDR30-02	Siemon	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPFDR28-03	Siemon	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPFDR26-04	Siemon	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
QSFPFDR25-05	Siemon	4x	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
2123603-2	TE Connectivity	4x	3	0	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
2123287-4	TE Connectivity	4x	10	0	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
1-2123287-1	TE Connectivity	4x	100	0	Active - Fiber	QSFP	Yes	No	Yes	Tested at PF21
1-2123603-1	TE Connectivity	4x	100	0	Active - Fiber	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-30-0221	Volex	12x	0.5	30	Unequalized	CXP	N/A	N/A	N/A	Tested at PF21
VAHS-26-0176	Volex	12x	4	26	Unequalized	Hybrid - CXP & QSFP	N/A	N/A	N/A	Tested at PF21
VAHS-26-0201	Volex	12x	5	26	Unequalized	Hybrid - CXP & QSFP	N/A	N/A	N/A	Tested at PF20
VAHS-30-0291	Volex	4x	7	30	Limiting Active - Copper	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-28-0266	Volex	4x	7	28	Limiting Active - Copper	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-26-0194	Volex	4x	8	26	Limiting Active - Copper	QSFP	Yes	Yes	Yes	Tested at PF21
VSHS-26-0202	Volex	4x	10	26	Limiting Active - Copper	QSFP	Yes	Yes	No	Tested at PF21
VAHS-32-0046	Volex	4x	0.5	32	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0286	Volex	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-32-0047	Volex	4x	1	32	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0408	Volex	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0296	Volex	4x	1	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0276-1.5	Volex	4x	1.5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-32-0048	Volex	4x	2	32	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0409	Volex	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0294	Volex	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0435	Volex	4x	2	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-28-0348	Volex	4x	2	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20



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Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2Q HCA 2 SW	Q2M HCA 2 SW	M2Q SW 2 SW	
VAHS-26-0226	Volex	4x	2	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0276-2	Volex	4x	2	26	Unequalized	QSFP	Yes	No	Yes	Tested at PF21
VAHS-25-0003	Volex	4x	2	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-30-0297	Volex	4x	2.5	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0276-2.5	Volex	4x	2.5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-30-0287	Volex	4x	3	30	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-28-0273	Volex	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-28-0349	Volex	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-28-0394	Volex	4x	3	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-26-0252	Volex	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0205	Volex	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0276-3	Volex	4x	3	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-25-0007	Volex	4x	3	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0206	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0253	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-28-0274	Volex	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-28-0206	Volex	4x	4	28	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-26-0197	Volex	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0263	Volex	4x	4	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-25-0002	Volex	4x	4	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-25-0023	Volex	4x	4	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-26-0198	Volex	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-26-0191	Volex	4x	5	26	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-25-0011	Volex	4x	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-25-0015	Volex	4x	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20
VAHS-25-0036	Volex	4x	5	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF21
VAHS-25-0012	Volex	4x	6	25	Unequalized	QSFP	Yes	Yes	Yes	Tested at PF20



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The following Interoperability results are provided as a supplement to the compliance results provided in the Integrators List. The Interoperability results are informative only and are not a pre-requisite for devices or cable assemblies to be listed in the Compliance section of the Integrators List. These results represent system tests and include the testing of the entire environment including device transmitters, cable media and device receivers. The Interoperability results include both FDR devices and cables.

While every effort was made to test worst-case conditions, results may vary with alternative port configurations, device and cable manufacturing variation, device firmware and software, traffic density and data patterns, temperature variation, etc. The following documentation identifies the test conditions used to obtain these Interoperability results.

Legend used in Interoperability results	
Interop Legend	Description
M2M HCA 2 SW	Mellanox HCA to Mellanox Switch
M2M SW 2 SW	Mellanox Switch to Mellanox Switch

Conditions for passing Interop	
Link Width	Link width is @ expected width - i.e. 1x,4x, etc
Link Speed	Link speed is @ expected speed - i.e. FDR
Link Recovery	There must be no errors during the MPI Run
Port Receive Errors	There must be no errors during the MPI Run
Symbol Errors	There must be no errors during the MPI Run
Port xmit Discard	There must be no discards during the MPI Run
MPI Test	The MPI test must run to completion without error

Manufacturer	Description of Hardware	Model	Type	HW	FW	SW	Speed	Status
Mellanox	ConnectX@-3 VPI card, Dual Port, 4X QSFP 56Gb/s	MCX354A-FCBT	HCA	X2	2.10.4530	1.5.4.1	FDR	Compliant
Mellanox	ConnectX@-3 VPI card, Single Port, 4X QSFP 56Gb/s	MCX353A-FCBT	HCA	X2	2.10.4530	1.5.4.1	FDR	Compliant
Mellanox	SwitchX@ FDR Switch, 36 QSFP ports. Managed	MSX6036F-1SFR	Switch	X2	9.1.3150	1.1.2500	FDR	Vol 2 not tested
Mellanox	SwitchX@ FDR Switch, 36 QSFP ports	MSX6025F-1SFR	Switch	X2	9.1.3150	1.1.2500	FDR	Vol 2 not tested

Software	Versions
OFED Version	OFED 1.5.4.1
Open MPI Used	Open MPI 1.4.3-1
Test Plan version	OFA-IWG Interoperability Test Plan Release 1.42
Test Duration	3-15 minutes

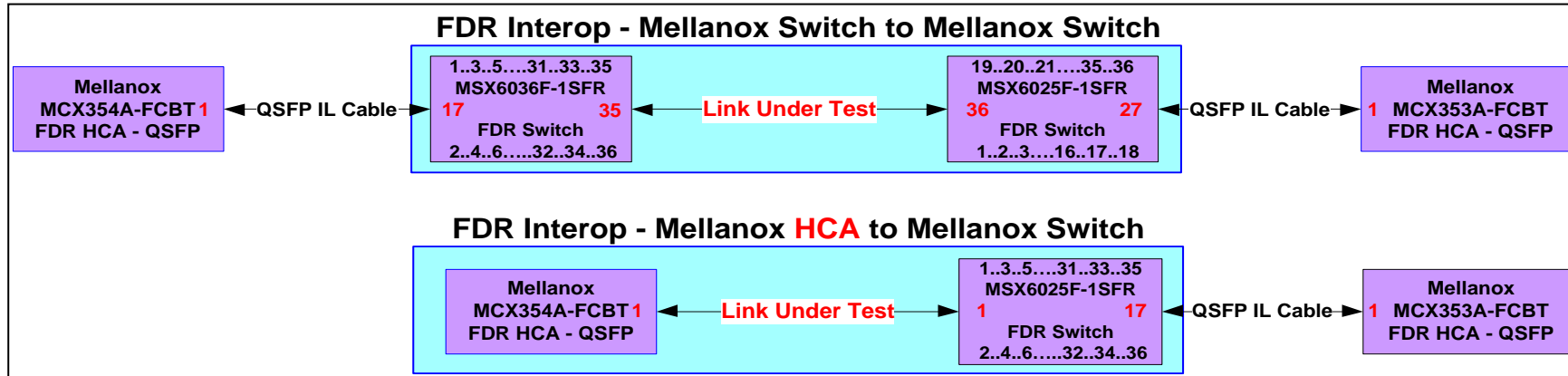


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FDR Interoperability Test Environments





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		Cable Information					FDR Interop		Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2M HCA 2 SW	M2M SW 2 SW	
9QA0-111-13-0.50	3M Company	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
9QA0-111-13-1.00	3M Company	4x	1	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
9QA0-111-13-2.00	3M Company	4x	2	30	Unequalized	QSFP	Yes	Yes	On-Demand
9QA0-111-13-3.00	3M Company	4x	3	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
APFN-AOC-001	Advanced Photonics, Inc	4x	1	N/A	Active - Fiber	QSFP	No	No	Tested at PF21
610620002	Amphenol	4x	1	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
610620003	Amphenol	4x	2	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
610620004	Amphenol	4x	3	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
7170800009	Cinch Connectors Inc.	4x	2	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
7170800007	Cinch Connectors Inc.	4x	3	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
7170800047	Cinch Connectors Inc.	4x	3	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
7170800044	Cinch Connectors Inc.	4x	4	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
ALLT01FQPA	Emcore Corporation	4x	1	n	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
ICD056GVP163D-10	FCI	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
10119239-2005LF	FCI	4x	0.5	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-4005LF	FCI	4x	0.5	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-4010LF	FCI	4x	1	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-2020LF	FCI	4x	2	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-4020LF	FCI	4x	2	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-2025LF	FCI	4x	2.5	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-4030LF	FCI	4x	3	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
10119239-4040LF	FCI	4x	4	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
2GSPWWX-P06G-EF	Foxconn	4x	2	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
2GSPWWB-63G-EF	Foxconn	4x	3	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
2GSPWWX-65G-EF	Foxconn	4x	4	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
2GSPWWX-P10G-EF	Foxconn	4x	5	26	Unequalized	QSFP	Yes	No	Tested at PF21
2GSPWWX-P13G-EF	Foxconn	4x	6	24	Unequalized	QSFP	Yes	No	Tested at PF21
MC2207310-003	Mellanox	4X	3	N/A	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
MC2207310-005	Mellanox	4X	5	N/A	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
MC2207310-030	Mellanox	4X	30	N/A	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
MC2207310-050	Mellanox	4X	50	N/A	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
MC2207310-100	Mellanox	4X	100	N/A	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
MC2207130-00A	Mellanox	4X	0.5	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
MC2207130-001	Mellanox	4X	1	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
MC2207130-0A1	Mellanox	4X	1.5	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
MC2207130-002	Mellanox	4X	2	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
MC2207128-0A2	Mellanox	4X	2.5	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
MC2207128-003	Mellanox	4X	3	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
1111821351	Molex Incorporated	4x	3.5	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
1111821401	Molex Incorporated	4x	4	30	Unequalized	QSFP	Yes	No	Tested at PF21
QSFP0-56G-001-01	Samtec	4x	1	NA	Active - Fiber	QSFP	Yes	Yes	Tested at PF21



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		Cable Information					FDR Interop		Qualification
Part Number	Company	Width	Len (m)	AWG	Equalization	Connector Type	M2M HCA 2 SW	M2M SW 2 SW	
QSFPO-56G-005-01	Samtec	4x	5	NA	Active - Fiber	QSFP	Yes	No	Tested at PF21
QSFPO-56G-010-01	Samtec	4x	10	NA	Active - Fiber	QSFP	Yes	Yes	Tested at PF21
QSFPO-56G-015-01	Samtec	4x	15	NA	Active - Fiber	QSFP	NT	NT	Added by Reference
QSFPO-56G-020-01	Samtec	4x	20	NA	Active - Fiber	QSFP	NT	NT	Added by Reference
QSFPO-56G-030-01	Samtec	4x	30	NA	Active - Fiber	QSFP	NT	NT	Added by Reference
QSFPO-56G-040-01	Samtec	4x	40	NA	Active - Fiber	QSFP	NT	NT	Added by Reference
QSFPO-56G-050-01	Samtec	4x	50	NA	Active - Fiber	QSFP	NT	NT	Added by Reference
QSFPO-56G-075-01	Samtec	4x	75	NA	Active - Fiber	QSFP	NT	NT	Added by Reference
QSFPO-56G-100-01	Samtec	4x	100	NA	Active - Fiber	QSFP	No	No	Tested at PF21
QSFPFDR30-02	Siemon	4x	2	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
QSFPFDR28-03	Siemon	4x	3	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
QSFPFDR26-04	Siemon	4x	4	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
QSFPFDR25-05	Siemon	4x	5	25	Unequalized	QSFP	Yes	No	Tested at PF21
VAHS-30-0435	Volex	4x	2	30	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-26-0276-2	Volex	4x	2	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-28-0394	Volex	4x	3	28	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-26-0276-3	Volex	4x	3	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-26-0253	Volex	4x	3.5	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-26-0263	Volex	4x	4	26	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-25-0023	Volex	4x	4	25	Unequalized	QSFP	Yes	Yes	Tested at PF21
VAHS-25-0036	Volex	4x	5	25	Unequalized	QSFP	Yes	No	Tested at PF21