

OPTICAL CONNECTION			
FROM P1	FIBER #	TO P2	FIBER #
Rx-1	1	Tx-1	12
Rx-2	2	Tx-2	11
Rx-3	3	Tx-3	10
Rx-4	4	Tx-4	9
dummy	5	dummy	8
dummy	6	dummy	7
dummy	7	dummy	6
dummy	8	dummy	5
Tx-4	9	Rx-4	4
Tx-3	10	Rx-3	3
Tx-2	11	Rx-2	2
Tx-1	12	Rx-1	1

NOTE:

CABLE ASSEMBLY SPECIFICATIONS:

OPTICAL PROPERTIES	MULTIMODE 50/125 μm BEND-INSENSITIVE
FIBER TYPE	0.5/0.35 dB
CONNECTOR INSERTION LOSS MTP/LC (MAX.)	3.5/1.2 dB/km AT 850/1300 nm
CABLE ATTENUATION (MAX.)	SEE TABLE 1
OVERFILLED LAUNCH BANDWIDTH, MIN.	
ENVIRONMENTAL PROPERTIES	
CONNECTOR MATERIALS	UL94 V-0
CABLE FLAMMABILITY RATING	PLENUM OFNP (NFPA262/UL 910)
OPERATING TEMPERATURE RANGE	-0°C TO +70°C
MECHANICAL PROPERTIES	
FIBER COUNT	4 Tx X 4 Rx
CABLE MIN. BEND RADIUS	
SHORT TERM	45mm - SINGLE JACKET
	72mm - DUAL JACKET
LONG TERM	20mm - SINGLE JACKET
	48mm - DUAL JACKET
NO LOAD	10mm - SINGLE JACKET
	OR SUBUNIT OF DUAL JACKET
CABLE COMPRESSION FORCE	>3.5 N/mm



TABLE 1

FIBER TYPE	OVERFILLED LAUNCH BANDWIDTH, MIN. (MHz-km)		10 GIGABIT ETHERNET LINK DISTANCE, MIN. (m)		EFFECTIVE MODAL BANDWIDTH (MHz-km)
	850 nm	1300 nm	850 nm	1300 nm	850 nm
STANDARD BANDWIDTH (OM2)	500	500	86	---	---
HIGH BANDWIDTH (OM3)	1500	500	300	---	2000
HIGH BANDWIDTH (OM4)	3500	550	550	---	4700

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515002		molex		
mm	1:1					
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 815326		MOLEX QSFP OPTICAL CABLE ASSEMBLY		
ANGULAR TOL ± 0.5°		DRWN: MADHAM5 2025/03/12				
4 PLACES ±		CHK'D: GGA 2025/03/26		PRODUCT CUSTOMER DRAWING		
3 PLACES ±		APPR: GGA 2025/03/26				
2 PLACES ±		INITIAL REVISION:		DOCUMENT NUMBER		
1 PLACE ±		DRWN: IGUMIN 2007/02/13				
0 PLACES ±		APPR: IGUMIN 2007/02/13		DOC TYPE		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION				
		DRAWING		REVISION		
		SERIES				
		MATERIAL NUMBER		001		
		CUSTOMER				
		SHEET NUMBER		1 OF 2		
		D-SIZE				
		106283		SEE TABLE		
		DRAWING				
		SERIES				
		MATERIAL NUMBER				
		CUSTOMER				
		SHEET NUMBER				
		D-SIZE				
		106283				
		DRAWING				
		SERIES				
		MATERIAL NUMBER				
		CUSTOMER				
		SHEET NUMBER				
		D-SIZE				
		106283				

STANDARD BANDWIDTH (OM2 FIBER)			HIGH BANDWIDTH (OM3 FIBER)			HIGH BANDWIDTH (OM4 FIBER)			OVERALL LENGTH L (m)
ASSY P/N	CABLE JACKET COLOR	CONN. BODY COLOR	ASSY P/N	CABLE JACKET COLOR	CONN. BODY COLOR	ASSY P/N	CABLE JACKET COLOR	CONN. BODY COLOR	
TBD	ORANGE (SINGLE JACKET)	BLACK	1062831000	AQUA (SINGLE JACKET)	AQUA	1062837501	AQUA (SINGLE JACKET)	AQUA	0.5 +0.1/-0
N/A			1062831001			1062837001			1.0 +0.2/-0
1062830115			1062831115			1062837502			1.5+0.2/-0
1062830002			1062831002			1062837002			2.0 +0.2/-0
1062830125			1062831125			1062837503			2.5+0.2/-0
N/A			1062831003			1062837003			3.0 +0.2/-0
TBA			1062831103			TBA			3.5 +0.2/-0
N/A			1062831004			1062837004			4.0 +0.2/-0
1062830005			1062831005			1062837005			5.0 +0.2/-0
N/A			1062831006			1062837006			6.0 +0.2/-0
N/A			1062831007			1062837007			7.0 +0.2/-0
N/A			1062831008			1062837008			8.0 +0.2/-0
1062830009			1062831009			1062837009			9.0 +0.2/-0
1062830010			1062831010			1062837010			10.0 +0.3/-0
1062830011			1062831011			1062837011			11.0 +0.3/-0
1062830012			1062831012			1062837012			12.0 +0.3/-0
N/A			1062831013			1062837013			13.0 +0.3/-0
N/A			1062831014			1062837014			14.0 +0.3/-0
N/A			1062831015			1062837015			15.0 +0.3/-0
N/A			1062831016			1062837016			16.0 +0.3/-0
N/A	1062831017	1062837017	17.0 +0.3/-0						
N/A	1062831018	1062837018	18.0 +0.3/-0						
N/A	1062831019	1062837019	19.0 +0.3/-0						
1062830020	1062831020	1062837020	20.0 +0.4/-0						
N/A	1062831021	1062837021	21.0 +0.4/-0						
N/A	1062831022	1062837022	22.0 +0.4/-0						
N/A	1062831023	1062837023	23.0 +0.4/-0						
N/A	1062831024	1062837024	24.0 +0.4/-0						
N/A	1062831025	1062837025	25.0 +0.5/-0						
N/A	1062831026	1062837026	26.0 +0.5/-0						
N/A	1062831027	1062837027	27.0 +0.5/-0						
N/A	1062831028	1062837028	28.0 +0.5/-0						
N/A	1062831029	1062837029	29.0 +0.5/-0						
N/A	1062831030	1062837030	30.0 +0.6/-0						
N/A	1062831035	1062837035	35.0 +0.7/-0						
N/A	1062831040	1062837040	40.0 +0.8/-0						
N/A	N/A	1062837045	45.0 +0.9/-0						
N/A	1062831050	1062837050	50.0 +1.0/-0						
N/A	1062831055	1062837055	55.0 +1.1/-0						
N/A	N/A	1062837060	60.0 +1.2/-0						
N/A	N/A	1062837065	65.0 +1.3/-0						
1062831070	AQUA (DUAL JACKET)	1062837070	AQUA (DUAL JACKET)	70.0 +1.4/-0					
N/A	N/A	1062837075	N/A	75.0 +1.5/-0					
N/A	N/A	1062837080	N/A	80.0 +1.6/-0					
N/A	N/A	1062837085	N/A	85.0 +1.7/-0					
N/A	N/A	1062837090	N/A	90.0 +1.8/-0					
N/A	N/A	1062837095	N/A	95.0 +1.9/-0					
1062831100	N/A	1062837100	N/A	100.0 +2.0/-0					
1062831120	N/A	TBA	N/A	120.0 +2.4/-0					
N/A	N/A	1062837150	N/A	150.0 +3.0/-0					
1062831300	N/A	TBA	N/A	300.0 +6.0/-0					
TBA	N/A	1062837400	N/A	400.0 +8.0/-0					

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									
DIMENSION UNITS	SCALE	CURRENT REV DESC: REMOVED OBSOLETE PART NUMBERS AS PER PCN#515002							
mm	1:1								
GENERAL TOLERANCES (UNLESS SPECIFIED)					MOLEX QSFP OPTICAL CABLE ASSEMBLY PRODUCT CUSTOMER DRAWING				
ANGULAR TOL	± 0.5°								
4 PLACES	±	EC NO: 815326			DRWN: MADHAM5 2025/03/12 CHK'D: GGA 2025/03/26 APPR: GGA 2025/03/26				
3 PLACES	±								
2 PLACES	±								
1 PLACE	±	INITIAL REVISION:			DOCUMENT NUMBER: SD-106283-00XX DOC TYPE: PSD DOC PART: 001 REVISION: E13				
0 PLACES	±	DRWN: IGUMIN 2007/02/13 APPR: IGUMIN 2007/02/13							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER	
			D-SIZE	106283	SEE TABLE	GENERAL MARKET		2 OF 2	

DOCUMENT STATUS	P1	RELEASE DATE	2025/03/26	12:23:18
-----------------	----	--------------	------------	----------