Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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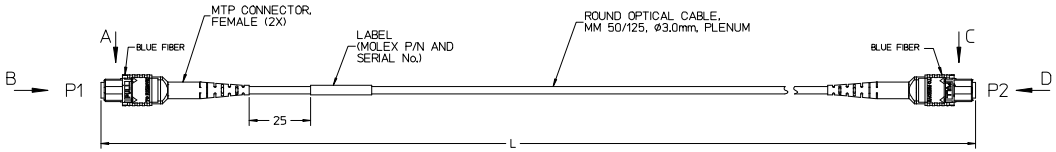
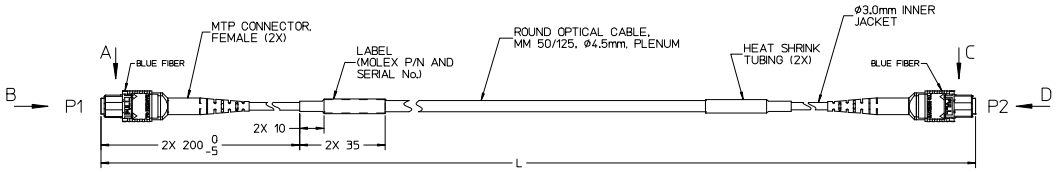
QSFP CABLE ASSEMBLY PART NUMBER			OVERALL LENGTH L (m)	CABLE DIA. (mm)	CABLE TYPE
STANDARD BANDWIDTH (OM2)* (ORANGE CABLE)	HIGH BANDWIDTH (OM3)* (AQUA CABLE)	HIGH BANDWIDTH (OM4)* (AQUA CABLE)			
TBD	106283-1000	106283-7501	0.5 +0.1/-0	3.0	12 FIBER ROUND CABLE, SINGLE JACKET
106283-0001	106283-1001	106283-7001	1.0 +0.2/-0		
1062830115	1062831115	106283-7502	1.5 +0.2/-0		
106283-0002	106283-1002	106283-7002	2.0 +0.2/-0		
1062830125	1062831125	106283-7503	2.5 +0.2/-0		
106283-0003	106283-1003	106283-7003	3.0 +0.2/-0		
106283-0004	106283-1004	106283-7004	4.0 +0.2/-0		
106283-0005	106283-1005	106283-7005	5.0 +0.2/-0		
106283-0006	106283-1006	106283-7006	6.0 +0.2/-0		
106283-0007	106283-1007	106283-7007	7.0 +0.2/-0		
106283-0008	106283-1008	106283-7008	8.0 +0.2/-0		
106283-0009	106283-1009	106283-7009	9.0 +0.2/-0		
106283-0010	106283-1010	106283-7010	10.0 +0.3/-0		
106283-0011	106283-1011	106283-7011	11.0 +0.3/-0		
106283-0012	106283-1012	106283-7012	12.0 +0.3/-0		
106283-0013	106283-1013	106283-7013	13.0 +0.3/-0		
106283-0014	106283-1014	106283-7014	14.0 +0.3/-0		
106283-0015	106283-1015	106283-7015	15.0 +0.3/-0		
106283-0016	106283-1016	106283-7016	16.0 +0.3/-0		
106283-0017	106283-1017	106283-7017	17.0 +0.3/-0		
106283-0018	106283-1018	106283-7018	18.0 +0.3/-0		
106283-0019	106283-1019	106283-7019	19.0 +0.3/-0		
106283-0020	106283-1020	106283-7020	20.0 +0.4/-0		
106283-0021	106283-1021	106283-7021	21.0 +0.4/-0		
106283-0022	106283-1022	106283-7022	22.0 +0.4/-0		
106283-0023	106283-1023	106283-7023	23.0 +0.4/-0		
106283-0024	106283-1024	106283-7024	24.0 +0.4/-0		
106283-0025	106283-1025	106283-7025	25.0 +0.5/-0		
106283-0026	106283-1026	106283-7026	26.0 +0.5/-0		
106283-0027	106283-1027	106283-7027	27.0 +0.5/-0		
106283-0028	106283-1028	106283-7028	28.0 +0.5/-0		
106283-0029	106283-1029	106283-7029	29.0 +0.5/-0		
106283-0030	106283-1030	106283-7030	30.0 +0.6/-0	4.5	12 FIBER ROUND CABLE, DUAL JACKET
106283-0035	106283-1035	106283-7035	35.0 +0.7/-0		
106283-0040	106283-1040	106283-7040	40.0 +0.8/-0		
106283-0045	106283-1045	106283-7045	45.0 +0.9/-0		
106283-0050	106283-1050	106283-7050	50.0 +1.0/-0		
	106283-1055	106283-7055	55.0 +1.1/-0		
	106283-1060	106283-7060	60.0 +1.2/-0		
	106283-1065	106283-7065	65.0 +1.3/-0		
	106283-1070	106283-7070	70.0 +1.4/-0		
	106283-1075	106283-7075	75.0 +1.5/-0		
	106283-1080	106283-7080	80.0 +1.6/-0		
	106283-1085	106283-7085	85.0 +1.7/-0		
	106283-1090	106283-7090	90.0 +1.8/-0		
	106283-1095	106283-7095	95.0 +1.9/-0		
	106283-1100	106283-7100	100.0 +2.0/-0		
	106283-1120	TBD	120.0 +2.4/-0		
	106283-1150	106283-7150	150.0 +3.0/-0		
	106283-1300	TBD	300.0 +6.0/-0		
	TBD	106283-7400	400.0 +8.0/-0		

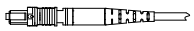
OPTICAL CONNECTION	
FROM P1	TO P2
Rx-1	Tx-1
Rx-2	Tx-2
Rx-3	Tx-3
Rx-4	Tx-4
UNUSED	UNUSED
UNUSED	UNUSED
UNUSED	UNUSED
UNUSED	UNUSED
Tx-4	Rx-4
Tx-3	Rx-3
Tx-2	Rx-2
Tx-1	Rx-1



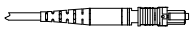
SINGLE JACKET ASSEMBLY



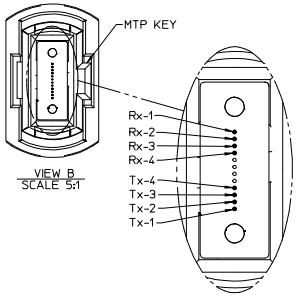
DUAL JACKET ASSEMBLY



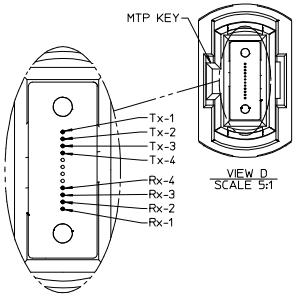
VIEW A



VIEW C



VIEW B
SCALE 5:1



VIEW D
SCALE 5:1

NOTES:

1. CABLE ASSEMBLY SPECIFICATIONS:

OPTICAL PROPERTIES	
FIBER TYPE	MULTIMODE 50/125 µm BEND-INSENSITIVE
CONNECTOR INSERTION LOSS (MAX.)	1.0 dB
CABLE ATTENUATION (MAX.)	3.5/1.2 dB/km AT 850/1300 nm
*BANDWIDTH	SEE TABLE 1
ENVIRONMENTAL PROPERTIES	
CONNECTOR MATERIALS	UL94 V-0
CABLE FLAMMABILITY RATING	PLENUM OFNP (NFPA 262/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	50 mm - SINGLE JACKET 89 mm - DUAL JACKET
LONG TERM	20 mm - SINGLE JACKET △2 57 mm - DUAL JACKET
NO LOAD	12.5 mm - SINGLE JACKET CABLE/INNER SUBUNIT OF DUAL JACKETED CABLE
COMPRESSIVE FORCE	
SINGLE JACKET	>3.5 N/mm - SINGLE JACKET CABLE/INNER SUBUNIT OF DUAL JACKETED CABLE

△2 IN CONTROLLED 90° AND 180° BENDS, MINIMUM BEND RADIUS CAN BE REDUCED TO 1.5 in (38 mm).

TABLE 1

FIBER TYPE	OVERFILLED LAUNCH BANDWIDTH, MIN. (MHz-km)		1 GIGABIT ETHERNET LINK DISTANCE, MIN. (m)		10 GIGABIT ETHERNET LINK DISTANCE, MIN. (m)		40 & 100 GIGABIT ETHERNET LINK DISTANCE, MIN. (m)		EFFECTIVE MODAL BANDWIDTH (MHz-km)
	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm	1300 nm	850 nm
STANDARD BANDWIDTH (OM2)	500	500	600	---	86	---	---	---	---
HIGH BANDWIDTH (OM3)	1500	500	1000	---	300	---	100	---	2000
HIGH BANDWIDTH (OM4)	3500	550	1040	---	550	---	150	---	4700

ENTER DESCRIPTION	EC NO: MF2017-0292	2017/05/04	DRWN:MAGHAYERE
	CHKD:	2017/05/18	APPR: GUMIN
DESCRIPTION			
REV	E11		

QUALITY SYMBOLS: ▼=0, ▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	± ---	± ---
3 PLACES	± ---	± ---
2 PLACES	± ---	± ---
1 PLACE	± ---	± ---
0 PLACE	±	±
ANGULAR ±1/2°		

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE: MM ONLY
SCALE: 1:1
DESIGN UNITS: INCH
THIRD ANGLE PROJECTION

DRAWN BY: IGUMIN	DATE: 2006/01/31	TITLE: MOLEX QSFP OPTICAL CABLE ASSEMBLY
CHECKED BY	DATE	
APPROVED BY: BANDREI	DATE: 2010/11/12	molex
MATERIAL NO.: SEE TABLE		DOCUMENT NO.: SD-106283-00XX
SIZE: D		SHEET NO.: 1 OF 1

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