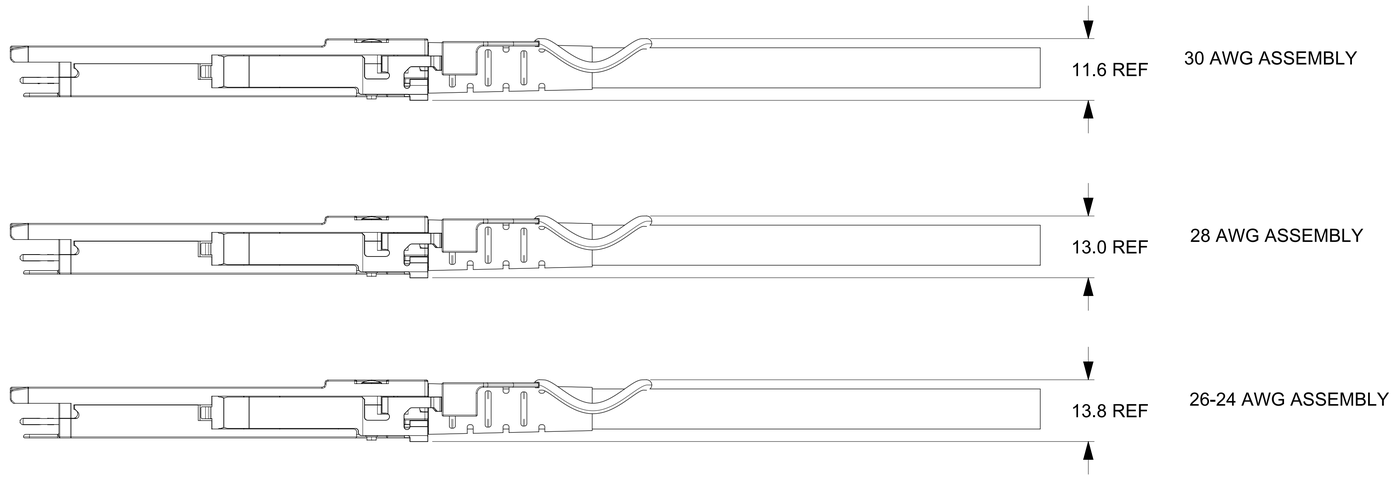


DETAIL1
SCALE 4:1



SEE SHEET 3 FOR P/N TABLE

NOTES:
1. CABLE DISTANCE DEPENDS ON WIRE GAUGE, DATA RATE, AND HOST BOARD DRIVER CAPABILITIES
2. MATERIALS:
   BACKSHELLS - ZINC DIE CAST WITH BRIGHT NICKEL PLATING
   DELATCH - STAINLESS STEEL WITH OVERMOLDED NYLON
   PCB - FR4
   RIVETS - STAINLESS STEEL
3. IMPEDANCE - 100 OHMS DIFFERENTIAL
4. RoHS COMPLIANT, NO EXEMPTIONS

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DIMENSION UNITS	SCALE
MM	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)	
ANGULAR TOL	± 0.5°
4 PLACES	±
3 PLACES	±
2 PLACES	± 0.130
1 PLACE	± 0.25
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#514995.

STATUS:	Production	
DRWN:	Ravindra Reddy MS	2025-04-21
CHK'D:	Ganesh Rao B	2025-05-23
APPR:	Gurunandan GA	2025-05-26

molex

QSFP+ COPPER PATCH CABLE ASSEMBLY
CABLE ASSEMBLY

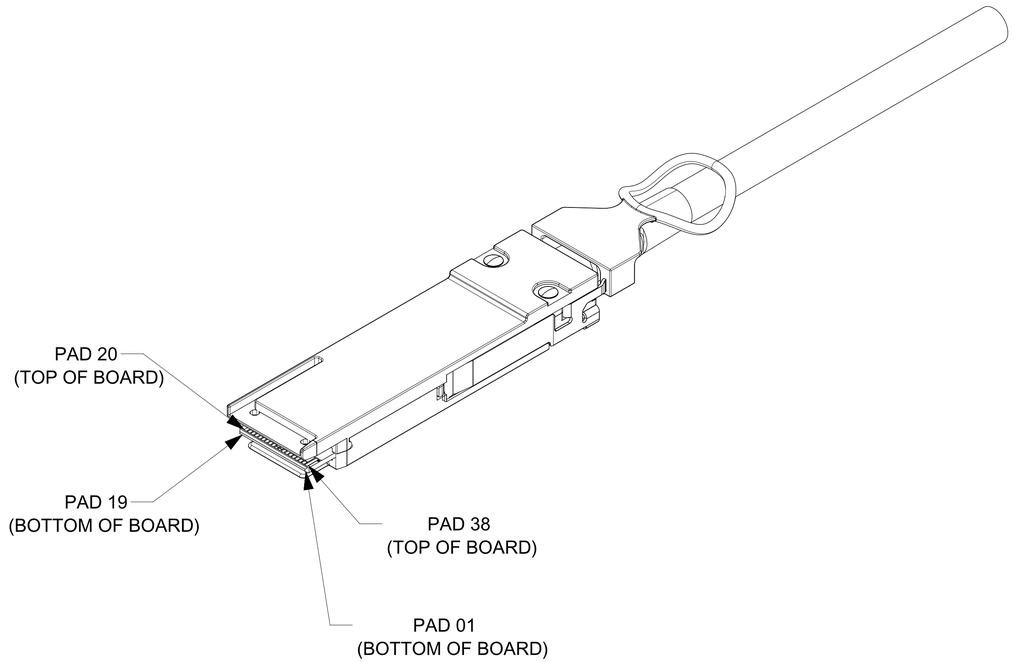
PRODUCT CUSTOMER DRAWING

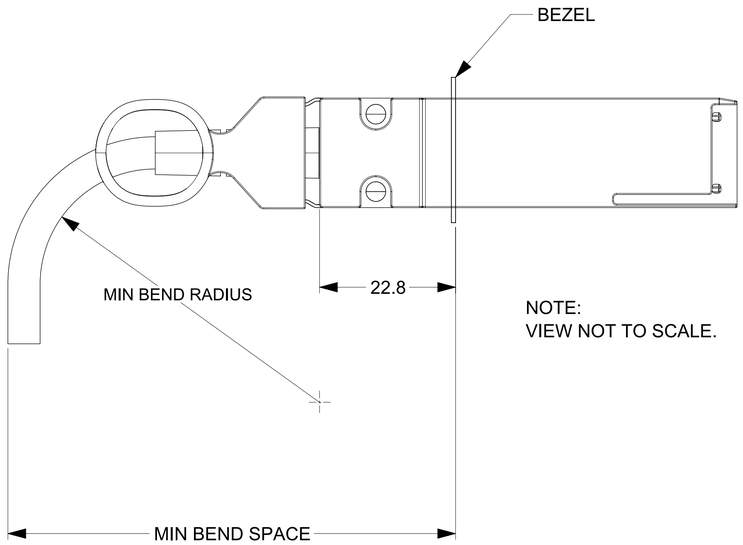
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1110400001	PSD	000	AA2

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	111040	SEE P/N TABLE	GENERAL MARKET	1 OF 3

WIRING DIAGRAM				
P1 END			P2 END	
PAD	SIGNAL		PAD	SIGNAL
01	GND (TX)	----	20	GND (RX)
02	TX2n	--->	21	RX2n
03	TX2p	--->	22	RX2p
04	GND (TX)	----	23	GND (RX)
05	TX4n	--->	24	RX4n
06	TX4p	--->	25	RX4p
07	GND (TX)	----	26	GND (RX)
08	ModSelL	□ □	27	ModPrsL
09	ResetL	□ □	28	IntL
10	VccRx	□ □	29	VccTx
11	SCL	□ NC □	30	Vcc1
12	SDA	□ □	31	LPmode
13	GND (RX)	----	32	GND (TX)
14	RX3p	<---	33	TX3p
15	RX3n	<---	34	TX3n
16	GND (RX)	----	35	GND (TX)
17	RX1p	<---	36	TX1p
18	RX1n	<---	37	TX1n
19	GND (RX)	----	38	GND (TX)
20	GND (RX)	----	01	GND (TX)
21	RX2n	<---	02	TX2n
22	RX2p	<---	03	TX2p
23	GND (RX)	----	04	GND (TX)
24	RX4n	<---	05	TX4n
25	RX4p	<---	06	TX4p
26	GND (RX)	----	07	GND (TX)
27	ModPrsL	□ □	08	ModSelL
28	IntL	□ □	09	ResetL
29	VccTx	□ □	10	VccRx
30	Vcc1	NC □ □	11	SCL
31	LPMode	□ □	12	SDA
32	GND (TX)	----	13	GND (RX)
33	TX3p	--->	14	RX3p
34	TX3n	--->	15	RX3n
35	GND (TX)	----	16	GND (RX)
36	TX1p	--->	17	RX1p
37	TX1n	--->	18	RX1n
38	GND (TX)	----	19	GND (RX)

LEGEND:
---- = THRU LINES
---> = TRANSMIT TO RECEIVE ON HIGH SPEED CIRCUITS
C = COMMON GROUND CONNECTION
NC = NOT CONNECTED
□ = CONNECTION TO A DEVICE ON THE PCB





NOTE:
VIEW NOT TO SCALE.

CABLE BEND RADIUS

CABLE AWG	MIN BEND RADIUS (mm)	MIN BEND SPACE (mm)
24	51	84
26	44	76
28	39	70
30	33	62

NOTES:
1. DC BLOCKING CAPS ON RECEIVE SIDE ONLY
2. CABLE COILED AND PACKAGED IN BEST FIT ESD BAG AND SEALED WITH ESD LABEL FOR SHIPPING

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DIMENSION UNITS	SCALE
MM	2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 0.5°
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0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBERS AS PER PCN#514995.

STATUS: Production
DRWN: Ravindra Reddy MS 2025-04-21
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molex

QSFP+ COPPER PATCH CABLE ASSEMBLY
CABLE ASSEMBLY

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
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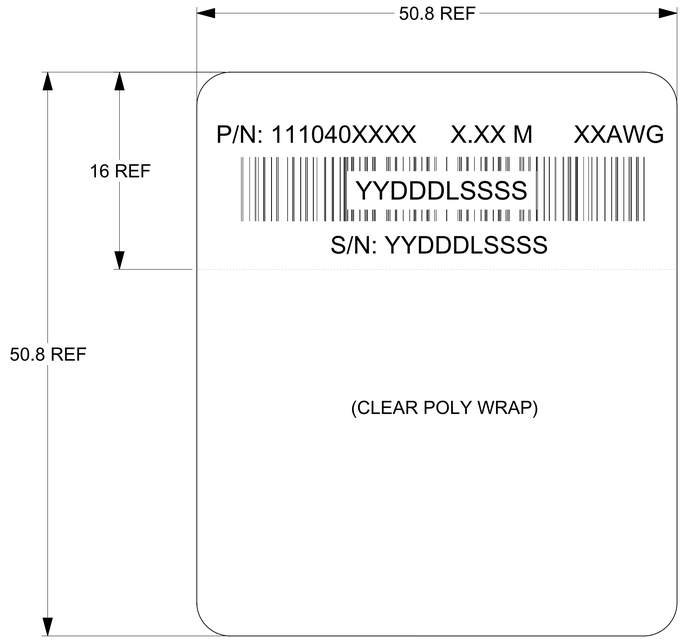
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	111040	SEE P/N TABLE	GENERAL MARKET	2 OF 3

CABLE LABEL DETAILS

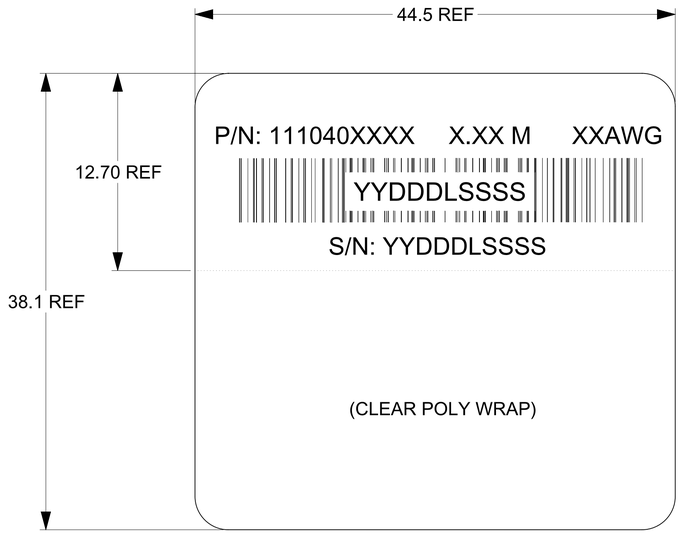
PART NUMBER TABLE

MOLEX PN	LENGTH (M)	LENGTH TOLERANCE (mm)	AWG
1110401054	0.5	±30	30
1110401104	1.0	±50	30
1110401154	1.5	±50	30
1110401204	2.0	±50	30
1110401304	3.0	±50	30
1110401504	5.0	±80	30
1110402304	3.0	±50	28
1110403304	3.0	±50	26
1110403509	5.0	±80	26
1110404708	7.0	±80	24

CABEL LABEL FOR 24 AND 26 AWG CABLE ASSEMBLY



CABEL LABEL FOR 28 AND 30 AWG CABLE ASSEMBLY



P/N: 111040XXXX - MOLEX PART NUMBER (SEE P/N TABLE)

X.XX M - CABLE LENGTH IN METERS (EXAMPLES - 0.5M, 1.0M, 1.5M)

XXAWG - CABLE SIZE IN AWG

S/N: YYDDDLSSSS - SERIAL NUMBER
YY = YEAR, THE LAST TWO DIGITS OF THE YEAR
DDD = DAY OF THE YEAR
L = LOCATION
1 - USA
2 - MEXICO
3 - CHINA
4 - PHILIPPINES
SSSS = SERIAL NUMBER (0001-9999)

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DIMENSION UNITS	MM
SCALE	2:1
GENERAL TOLERANCES (UNLESS SPECIFIED)	
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PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1110400001	PSD	000	AA2

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	D-SIZE	111040	SEE P/N TABLE	GENERAL MARKET	3 OF 3