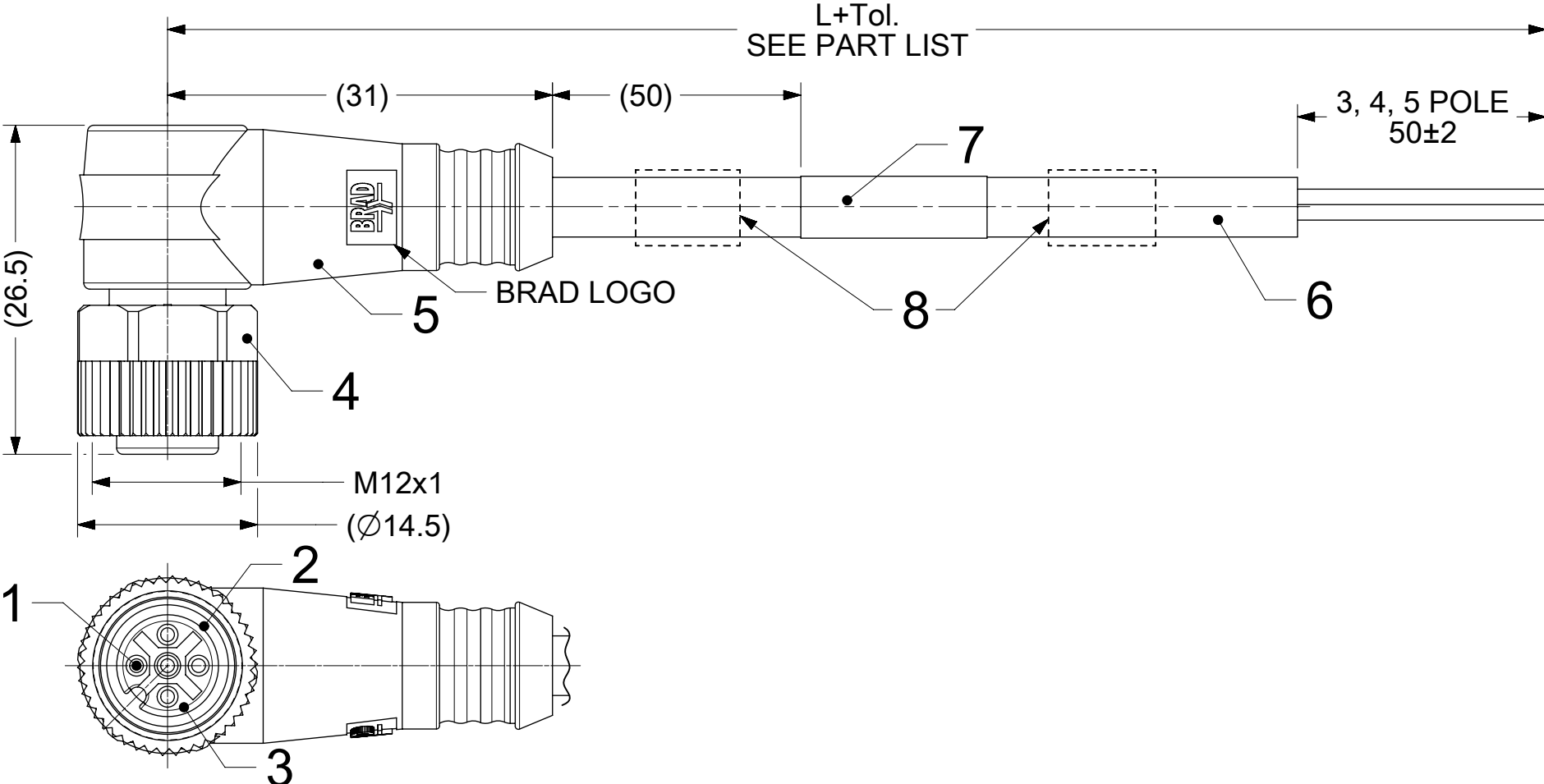
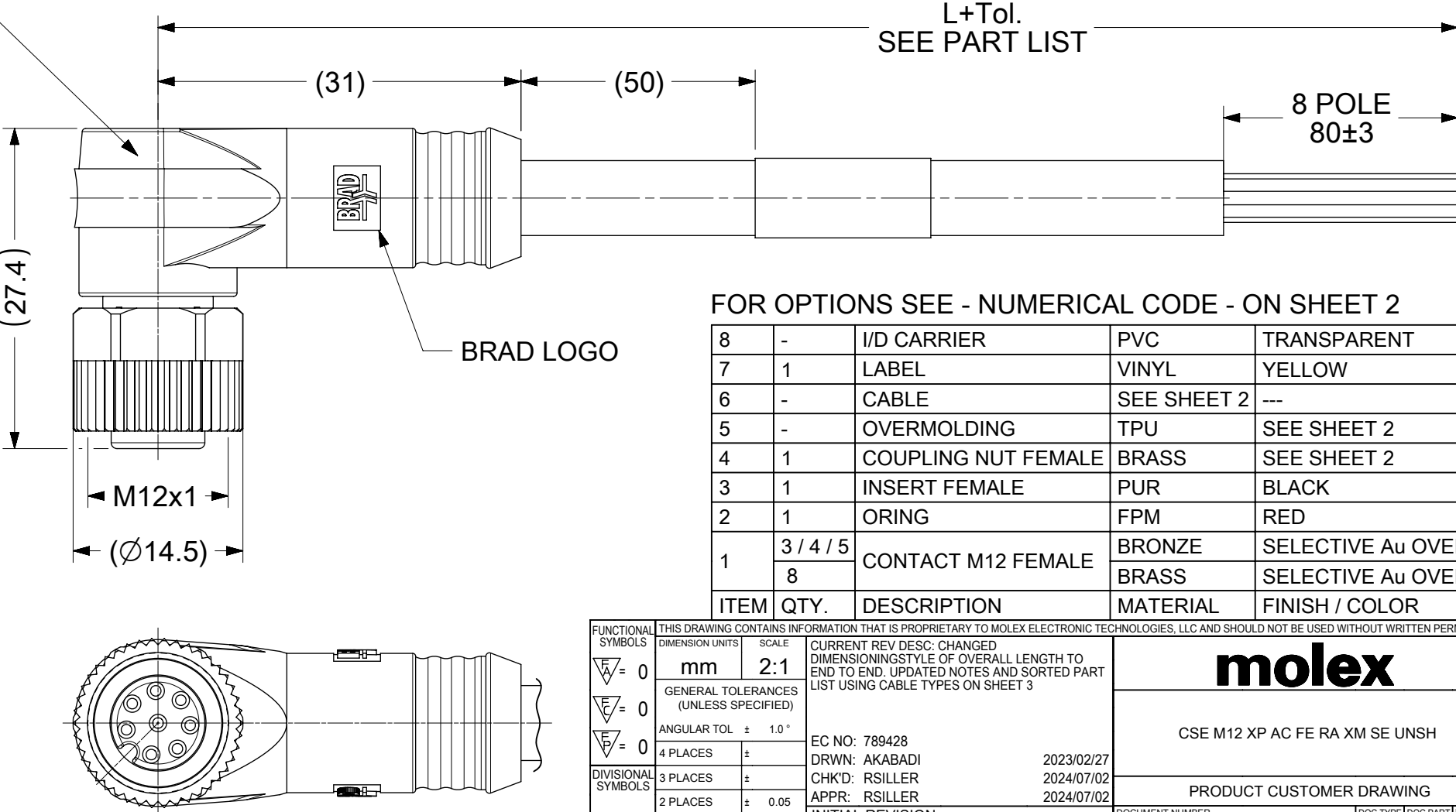


FEMALE PLUG M12 90° ANGLED

NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
TEMPERATURE: SEE CABLE INFORMATION
INSULATION RESISTANCE: 10⁸ Ω MIN.
MATING CYCLES: MIN. 100
ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION



Thicker Overmold for Cables with bigger Outer Diameter (Ø>6)



CONTACTS POSITION FRONT VIEW:

3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN	1	WHITE
2	---	2	WHITE	2	WHITE	2	BROWN
3	BLUE	3	BLUE	3	BLUE	3	GREEN
4	BLACK	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
						6	PINK
						7	BLUE
						8	RED

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:37
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FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

8	-	I/D CARRIER	PVC	TRANSPARENT
7	1	LABEL	VINYL	YELLOW
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	BRASS	SEE SHEET 2
3	1	INSERT FEMALE	PUR	BLACK
2	1	ORING	FPM	RED
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE Au OVER Ni
	8		BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH / COLOR

FUNCTIONAL SYMBOLS E A = 0 E F = 0 E F = 0 DIVISIONAL SYMBOLS	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: CHANGED DIMENSIONINGSTYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND SORTED PART LIST USING CABLE TYPES ON SHEET 3				molex								
	mm		2:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)																
	ANGULAR TOL ± 1.0 °																
	4 PLACES		±		EC NO: 789428				CSE M12 XP AC FE RA XM SE UNSH								
	3 PLACES		±		DRWN: AKABADI 2023/02/27												
	2 PLACES		± 0.05		CHK'D: RSILLER 2024/07/02												
	1 PLACE		± 0.3		APPR: RSILLER 2024/07/02				PRODUCT CUSTOMER DRAWING								
	0 PLACES		± 0.5		INITIAL REVISION:												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
						A3-SIZE		120065		1200656607		PSD		000		B	
										MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
										SEE SHEET 3		GENERAL MARKET		1 OF 3			

PART LIST

MOLEX PN	ENGINEERING No	L [mm]
3P CABLE B30		
1200652259	803001B30M010	1000
1200652260	803001B30M020	2000
1200652261	803001B30M050	5000
1200652262	803001B30M100	10000
4P CABLE B30		
1200652263	804001B30M010	1000
1200652264	804001B30M020	2000
1200659470	804001B30M030	3000
1200652265	804001B30M050	5000
1200659807	804001B30M083	8300
1200652266	804001B30M100	10000
1200659401	804001B30M150	15000
1200659471	804001B30M200	20000
1200659472	804001B30M250	25000
1200659473	804001B30M300	30000
5P CABLE B30		
1200659522	805001B30M010	1000
1200659523	805001B30M020	2000
1200656665	805001B30M030	3000
1200659524	805001B30M050	5000
1200659525	805001B30M100	10000
1200659748	805001B30M150	15000
1200656484	805001B30M200	20000
8P CABLE B41		
1200652310	808001B41M010	1000
1200652311	808001B41M020	2000
1200652312	808001B41M050	5000
1200659789	808001B41M083	8300
1200652313	808001B41M100	10000
1200656022	808001B41M150	15000
1200656486	808001B41M200	20000
5P CABLE B42		
1200652267	805001B42M010	1000
1200652268	805001B42M020	2000
1200652269	805001B42M050	5000
1200652270	805001B42M100	10000
1200659542	805001B42M200	20000

MOLEX PN	ENG No.	L [mm]
4P CABLE B33		
1200657144	804001B33M005A	500
1200656607	804001B33M010A	1000
1200656608	804001B33M020A	2000
1200656609	804001B33M030A	3000
1200656610	804001B33M050A	5000
1200656611	804001B33M100A	10000
1200656612	804001B33M150A	15000
1200656613	804001B33M200A	20000
5P CABLE B33		
1200657181	805001B33M005A	500
1200656658	805001B33M010A	1000
1200656659	805001B33M020A	2000
1200656660	805001B33M030A	3000
1200656661	805001B33M050A	5000
1200656662	805001B33M100A	10000
1200656663	805001B33M150A	15000
1200656664	805001B33M200A	20000
1200657182	805001B33M300A	30000
1200657183	805001B33M400A	40000
1200657184	805001B33M500A	50000
4P CABLE B55		
1200656627	804001B55M010Y	1000
1200656628	804001B55M020Y	2000
1200656629	804001B55M030Y	3000
1200656630	804001B55M050Y	5000
1200656631	804001B55M100Y	10000
1200656632	804001B55M150Y	15000
1200656633	804001B55M200Y	20000
5P CABLE B55		
1200656666	805001B55M010Y	1000
1200656667	805001B55M020Y	2000
1200656668	805001B55M030Y	3000
1200656669	805001B55M050Y	5000
1200656670	805001B55M100Y	10000
1200656671	805001B55M150Y	15000
1200656672	805001B55M200Y	20000

MOLEX PN	ENG No.	L [mm]
4P CABLE B36		
1200656852	804001B36M0107Y	1000
1200656391	804001B36M0207H	2000
1200659432	804001B36M0207Y	2000
1200656392	804001B36M0507H	5000
1200659433	804001B36M0507Y	5000
1200656393	804001B36M1007H	10000
1200659434	804001B36M1007Y	10000

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0 m - 1 m	+40 mm
>1 m - 5 m	+60 mm
>5 m - 10 m	+80 mm
>10 m - 20 m	+140 mm
>20 m - 30 m	+160 mm
>30 m	+1% length

NOTE:
* (STAR) - INDICATES THESE PNS ONLY HAVE ID CARRIER IN BOM.

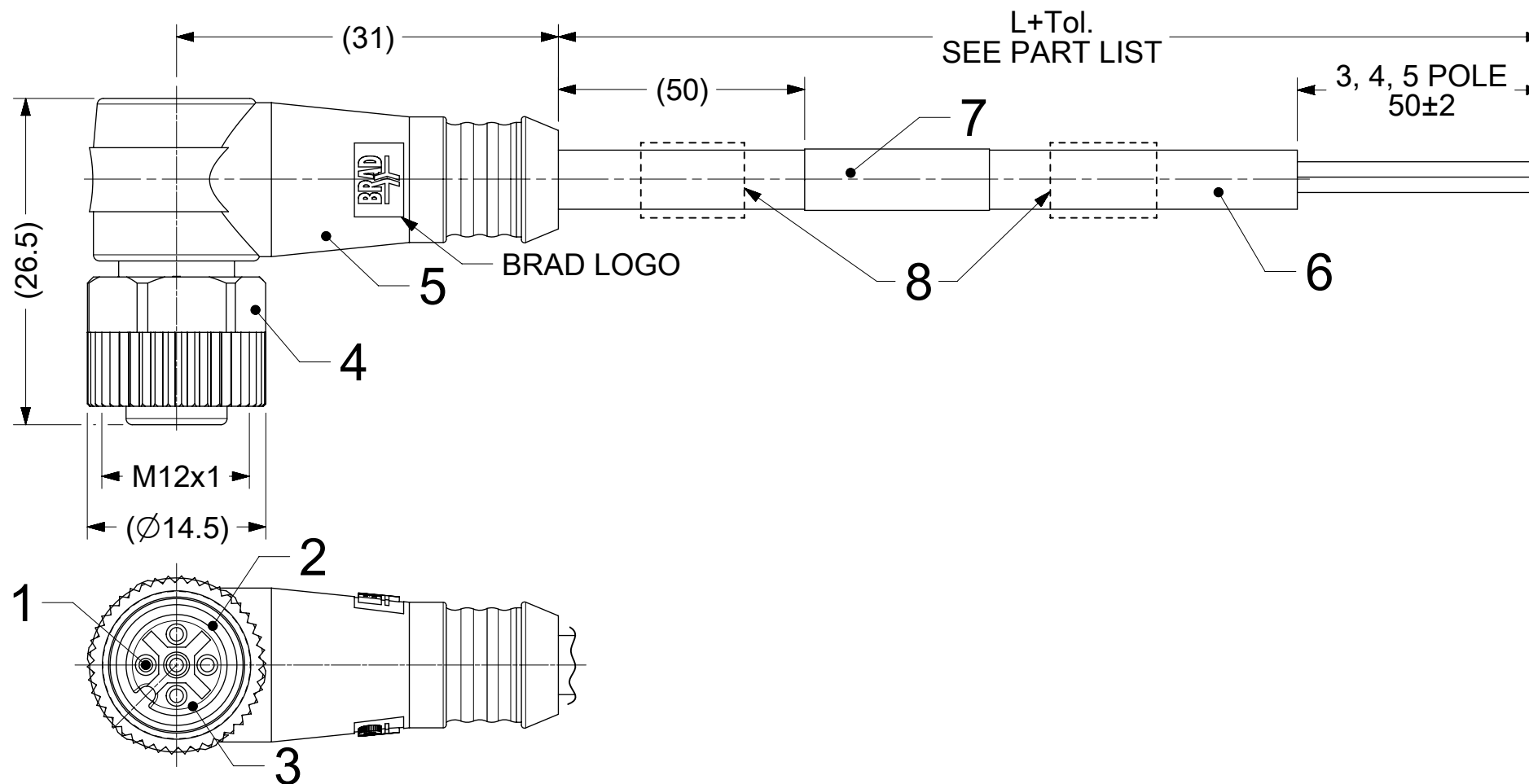
DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:37
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FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
	DIMENSION UNITS		SCALE		CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO END TO END. UPDATED NOTES AND SORTED PART LIST USING CABLE TYPES ON SHEET 3			molex CSE M12 XP AC FE RA XM SE UNSH					
	mm		1:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)												
	ANGULAR TOL ± 1.0 °												
	4 PLACES ±		EC NO: 789428			2023/02/27							
	3 PLACES ±		DRWN: AKABADI										
	2 PLACES ± 0.05		CHK'D: RSILLER										
	1 PLACE ± 0.3		APPR: RSILLER			2024/07/02							
	0 PLACES ± 0.5		INITIAL REVISION:			2024/07/02							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: SSM			2021/12/13								
		APPR: RSILLER			2022/02/28								
		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				A3-SIZE		120065		SEE SHEET 3		GENERAL MARKET		3 OF 3	

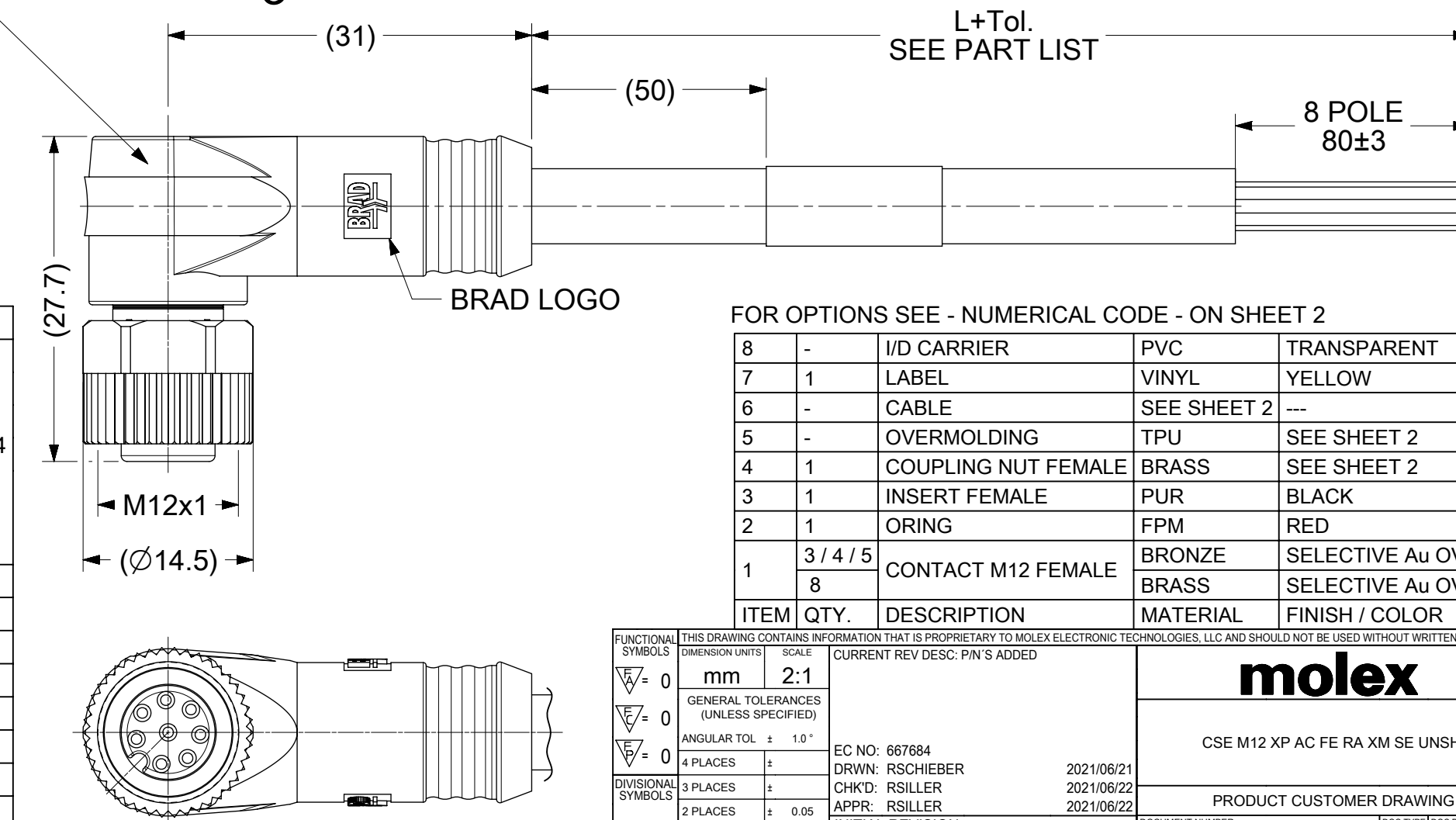
FEMALE PLUG M12 90° ANGLED

NOTES:

RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +80°C



Thicker Overmold for Cables — with bigger Outer Diameter ($\phi > 6$)



CONTACTS POSITION FRONT VIEW:

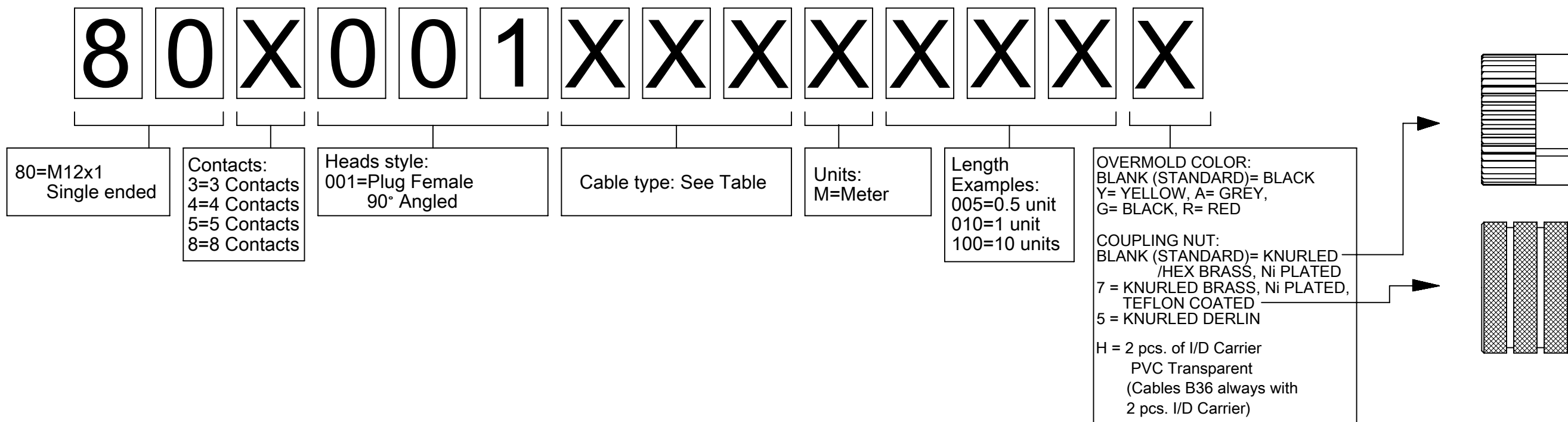
3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN	1	WHITE
2	---	2	WHITE	2	WHITE	2	BROWN
3	BLUE	3	BLUE	3	BLUE	3	GREEN
4	BLACK	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
						6	PINK
						7	BLUE
						8	RED

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

8	-	I/D CARRIER	PVC	TRANSPARENT
7	1	LABEL	VINYL	YELLOW
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	BRASS	SEE SHEET 2
3	1	INSERT FEMALE	PUR	BLACK
2	1	ORING	FPM	RED
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE Au OVER N
	8		BRASS	SELECTIVE Au OVER N
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH / COLOR

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		MATERIAL		FINISH / COLOR	
DIMENSION UNITS		SCALE		CURRENT REV DESC: P/N'S ADDED		molex	
mm		2:1					
GENERAL TOLERANCES (UNLESS SPECIFIED)							
ANGULAR TOL ± 1.0°							
4 PLACES ±							
3 PLACES ±				EC NO: 667684			
2 PLACES ± 0.05				DRWN: RSCHIEBER		2021/06/21	
1 PLACE ± 0.3				CHK'D: RSILLER		2021/06/22	
0 PLACES ± 0.5				APPR: RSILLER		2021/06/22	
DIVISIONAL SYMBOLS		INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE	
		DRWN: FSCHAFHAUSER		SD-120065-076		PSD	
		APPR: CBURGER		2014/02/10		001	
		2014/05/07		A5			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SHEET NUMBER	
				A3-SIZE		120065	
				MATERIAL NUMBER		CUSTOMER	
				SEE SHEET 3		GENERAL MARKET	
						1 OF 3	

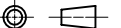
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).



CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAW CHAIN TESTED	OTHER	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm²	TPU BLACK	STYLE 21215	YES	-40°C to +90°C, 5xO.D.	-25°C to +80°C, 7.5xO.D.	5 MIO CYCLES	WELD SLAG RESISTANCE	SD-120209-001
B42	5									SD-120209-001
B41	8	0.25mm²	SD-120209-006							
B36	4	0.34mm²	TPU ORANGE							SD-120209-001
B33	4 / 5	0.34mm²	TPU GRAY							SD-120209-001
B55	4 / 5	0.34mm²	TPU YELLOW							1552200001 PS

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/22	13:20:30
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FUNCTIONAL SYMBOLS  = 0  = 0  = 0 DIVISIONAL SYMBOLS	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: P/N'S ADDED						molex CSE M12 XP AC FE RA XM SE UNSH								
	mm			1:1																	
	GENERAL TOLERANCES (UNLESS SPECIFIED)																				
	ANGULAR TOL ± 1.0 °																				
	4 PLACES			±			EC NO: 667684						PRODUCT CUSTOMER DRAWING								
	3 PLACES			±			DRWN: RSCHIEBER 2021/06/21														
	2 PLACES			± 0.05			CHK'D: RSILLER 2021/06/22														
	1 PLACE			± 0.3			APPR: RSILLER 2021/06/22						DOCUMENT NUMBER			DOC TYPE		DOC PART		REVISION	
	0 PLACES			± 0.5			INITIAL REVISION:						SD-120065-076			PSD		001		A5	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION			DRAWING			SERIES			MATERIAL NUMBER			CUSTOMER			SHEET NUMBER			
						A3-SIZE			120065			SEE SHEET 3			GENERAL MARKET			2 OF 3			

PART LIST

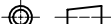
Lp.	MOLEX PN	ENGINEERING No	L+Tol. [mm]
1	1200652259	803001B30M010	1000 +40
2	1200652260	803001B30M020	2000 +60
3	1200652261	803001B30M050	5000 +60
4	1200652262	803001B30M100	10000 +80
5	1200652263	804001B30M010	1000 +40
6	1200652264	804001B30M020	2000 +60
7	1200652265	804001B30M050	5000 +60
8	1200652266	804001B30M100	10000 +80
9	1200659401	804001B30M150	15000 +160
10	1200659470	804001B30M030	3000 +60
11	1200659471	804001B30M200	20000 +160
12	1200659472	804001B30M250	25000 +160
13	1200659473	804001B30M300	30000 +300
14	1200659522	805001B30M010	1000 +40
15	1200659523	805001B30M020	2000 +60
16	1200659524	805001B30M050	5000 +60
17	1200659525	805001B30M100	10000 +80
18	1200659748	805001B30M150	15000 +160
19	1200659807	804001B30M083	8300 +80
20	1200652310	808001B41M010	1000 +40
21	1200652311	808001B41M020	2000 +60
22	1200652312	808001B41M050	5000 +60
23	1200652313	808001B41M100	10000 +80
24	1200656022	808001B41M150	15000 +160
25	1200659789	808001B41M083	8300 +80
26	1200652267	805001B42M010	1000 +40
27	1200652268	805001B42M020	2000 +60
28	1200652269	805001B42M050	5000 +60
29	1200652270	805001B42M100	10000 +80
30	1200659542	805001B42M200	20000 +160
31	1200656391	804001B36M0207H	2000 +60
32	1200656392	804001B36M0507H	5000 +60
33	1200656393	804001B36M1007H	10000 +80
34	1200656484	805001B30M200	20000 +160
35	1200656486	808001B41M200	20000 +160
36	*1200659432	804001B36M0207Y	2000 +60
37	*1200659433	804001B36M0507Y	5000 +60
38	*1200659434	804001B36M1007Y	10000 +80
39	1200656607	804001B33M010A	1000 +40
40	1200656608	804001B33M020A	2000 +60

NOTE:

* (STAR) - INDICATES THESE PNS ONLY HAVE ID CARRIER IN BOM.

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/22	13:20:30
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[illegible]

FUNCTIONAL SYMBOLS		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: P/N'S ADDED											
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 667684 DRWN: RSCHIEBER 2021/06/21 CHK'D: RSILLER 2021/06/22 APPR: RSILLER 2021/06/22				CSE M12 XP AC FE RA XM SE UNSH									
ANGULAR TOL ± 1.0 °															
4 PLACES ±		INITIAL REVISION: DRWN: FSCHAFHAUSER 2014/02/10 APPR: CBURGER 2014/05/07				DOCUMENT NUMBER SD-120065-076		DOC TYPE PSD	DOC PART 001	REVISION A5					
3 PLACES ±															
2 PLACES ± 0.05		THIRD ANGLE PROJECTION 				DRAWING A3-SIZE		SERIES 120065		MATERIAL NUMBER SEE SHEET 3		CUSTOMER GENERAL MARKET		SHEET NUMBER 3 OF 3	
1 PLACE ± 0.3															
0 PLACES ± 0.5		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													
DIVISIONAL SYMBOLS															