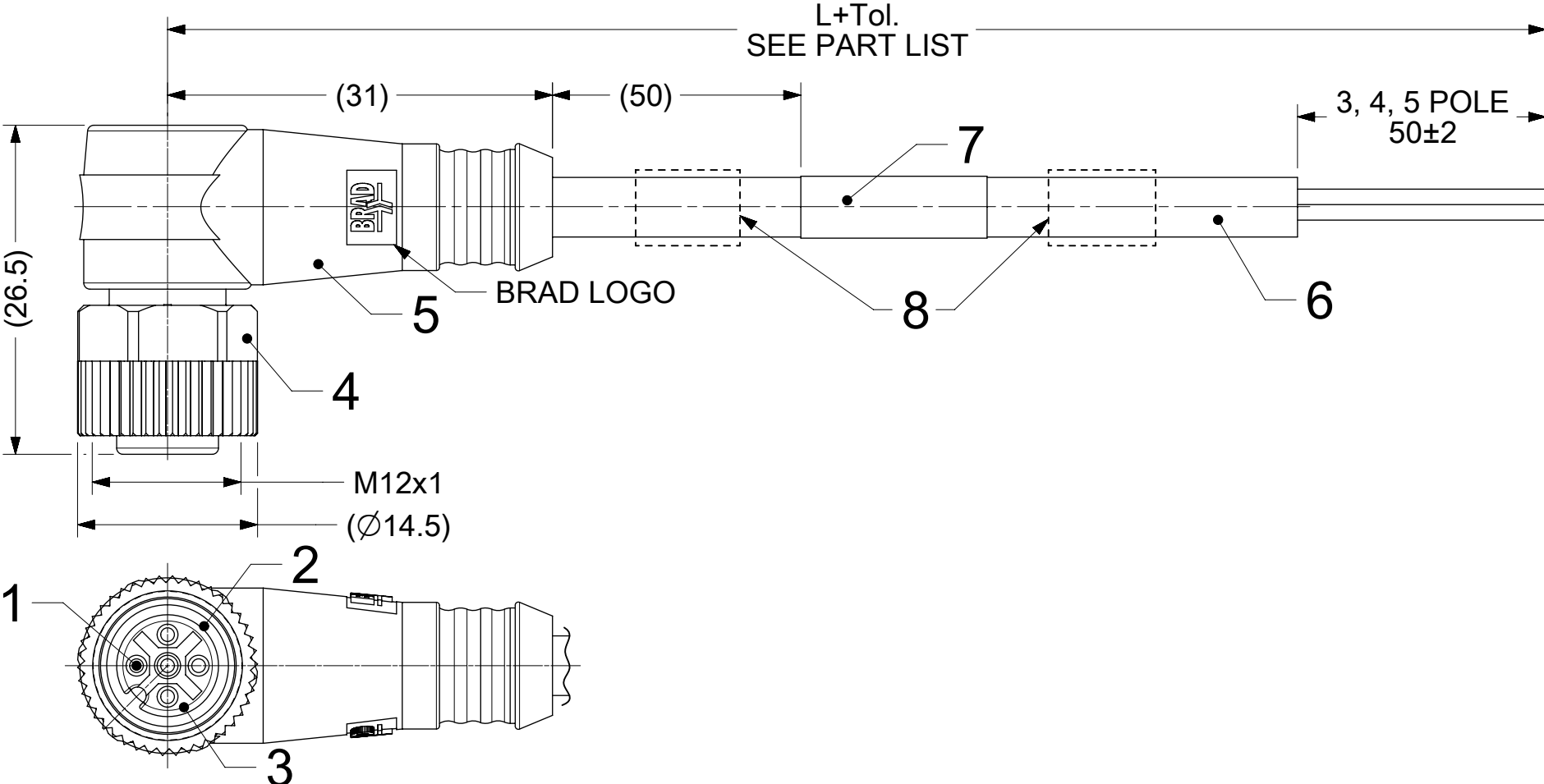
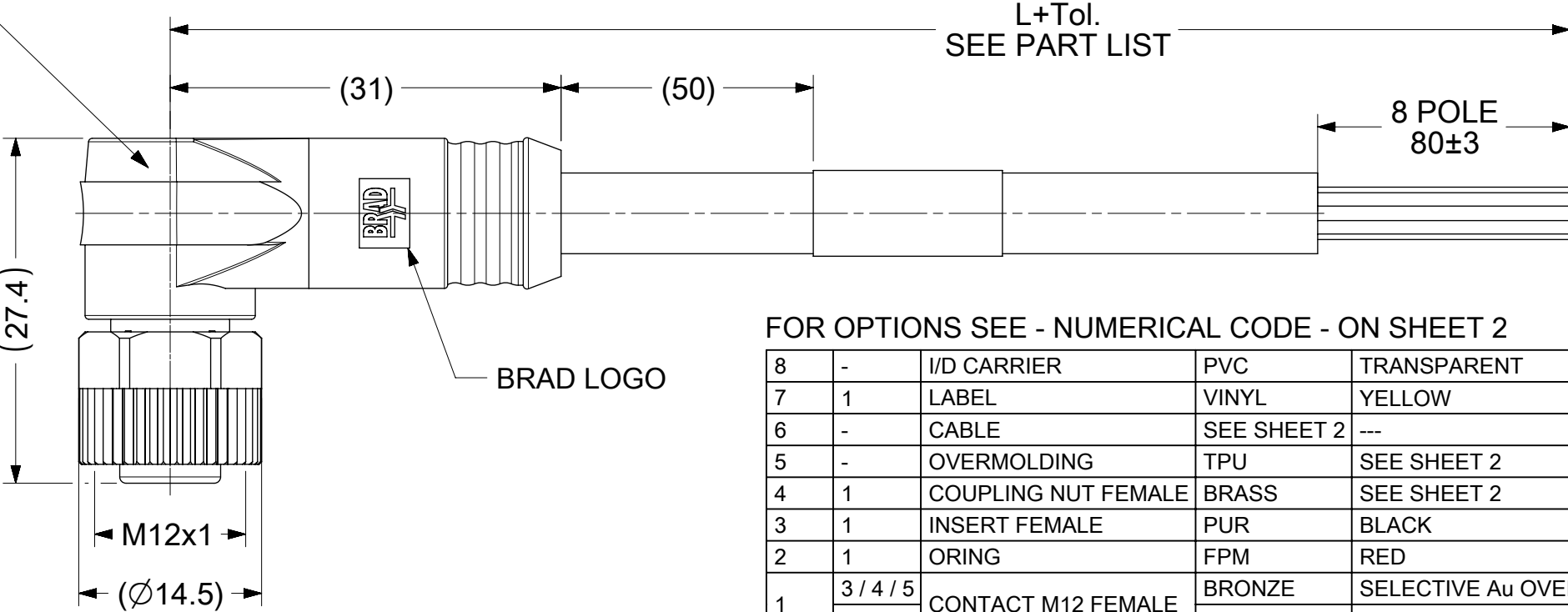


FEMALE PLUG M12 90° ANGLED

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

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION											
FUNCTIONAL SYMBOLS	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 °										
DIVISIONAL SYMBOLS	E A = 0	4 PLACES		±		EC NO: 789428		DRWN: AKABADI 2023/02/27		CSE M12 XP AC FE RA XM SE UNSH	
	E B = 0										
	E C = 0										
	3 PLACES		±		CHK'D: RSILLER 2024/07/02		PRODUCT CUSTOMER DRAWING				
	2 PLACES		± 0.05		APPR: RSILLER 2024/07/02						
1 PLACE		± 0.3		INITIAL REVISION:							
0 PLACES		± 0.5				DRWN: SSM 2021/12/13					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER	
						A3-SIZE		120065		1200656607	
										DOC TYPE	
										DOC PART	
										REVISION	
										PSD	
										000	
										B	
										MATERIAL NUMBER	
										CUSTOMER	
										SHEET NUMBER	
										SEE SHEET 3	
										GENERAL MARKET	
										1 OF 3	

F



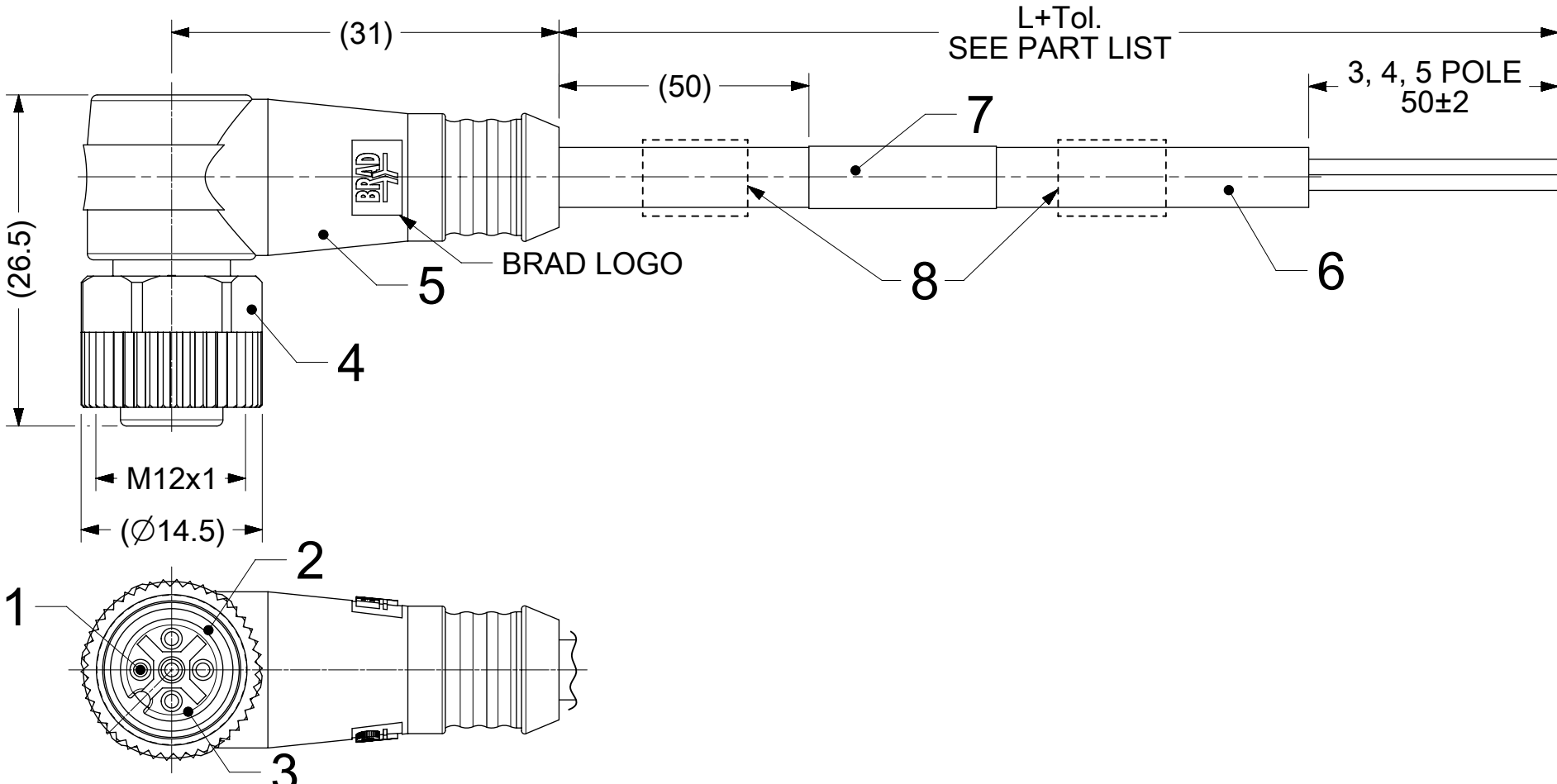
D

CA

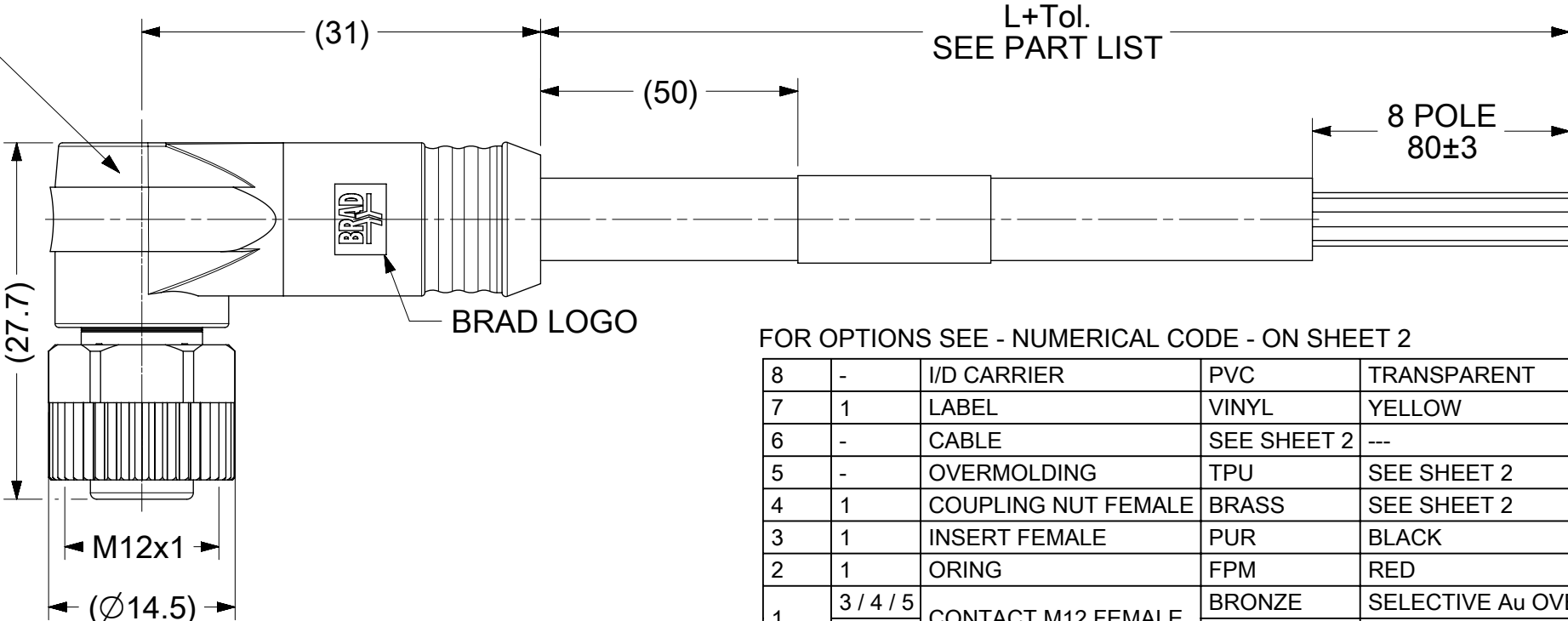
FEMALE PLUG M12 90° ANGLED

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 ($\varnothing > 6$)



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	2021/06/22	13:20:30
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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

$\nabla/A = 0$

$\nabla/E = 0$

$\nabla/F = 0$

DIVISIONAL SYMBOLS

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

CURRENT REV DESC: P/N'S ADDED

EC NO: 667684
DRWN: RSCHIEBER
CHK'D: RSILLER
APPR: RSILLER

INITIAL REVISION:
DRWN: FSCHAFHAUSER
APPR: CBURGER

THIRD ANGLE PROJECTION

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

mm

SCALE

2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0°

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

2021/06/21

2021/06/22

2021/06/22

2014/02/10

2014/05/07

A3-SIZE

120065

molex

CSE M12 XP AC FE RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

SD-120065-076

DOC TYPE

PSD

DOC PART

001

REVISION

A5

MATERIAL NUMBER

SEE SHEET 3

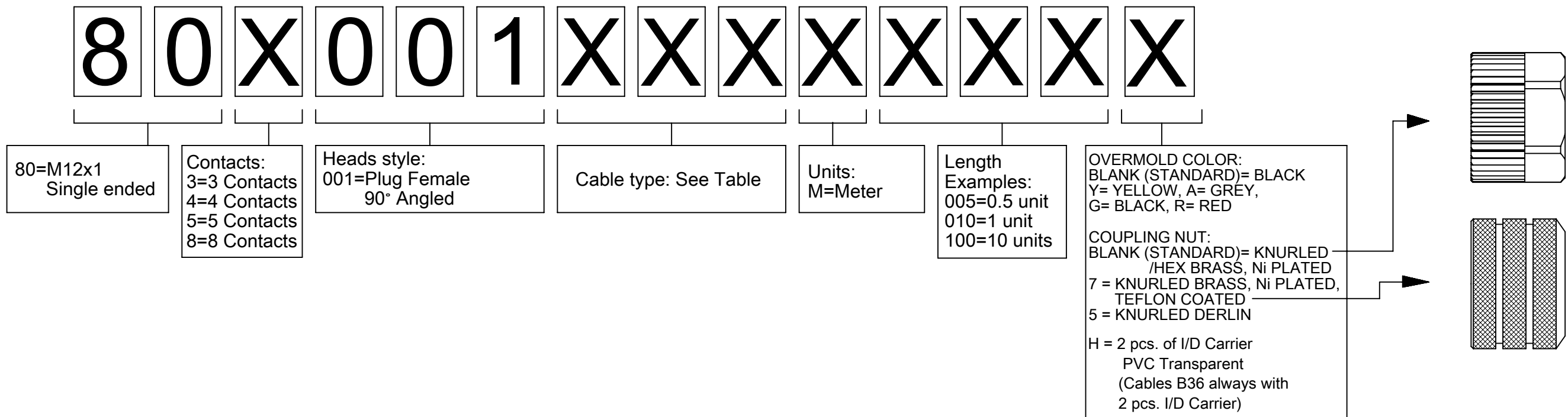
CUSTOMER

GENERAL MARKET

SHEET NUMBER

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 F = 0 F = 0 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: 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					
	0 PLACES		± 0.5		INITIAL REVISION:			SD-120065-076					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOC TYPE		DOC PART		REVISION	
								PSD		001		A5	
				A3-SIZE		120065		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
								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 </	
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