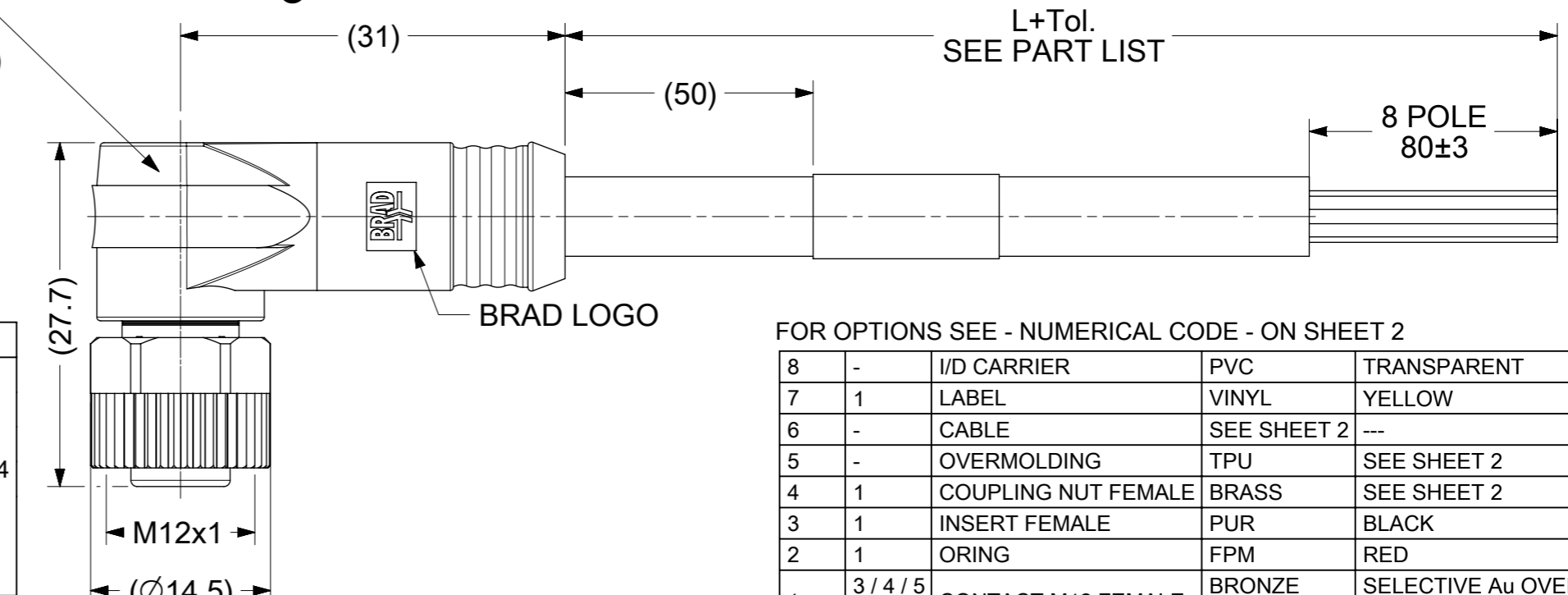
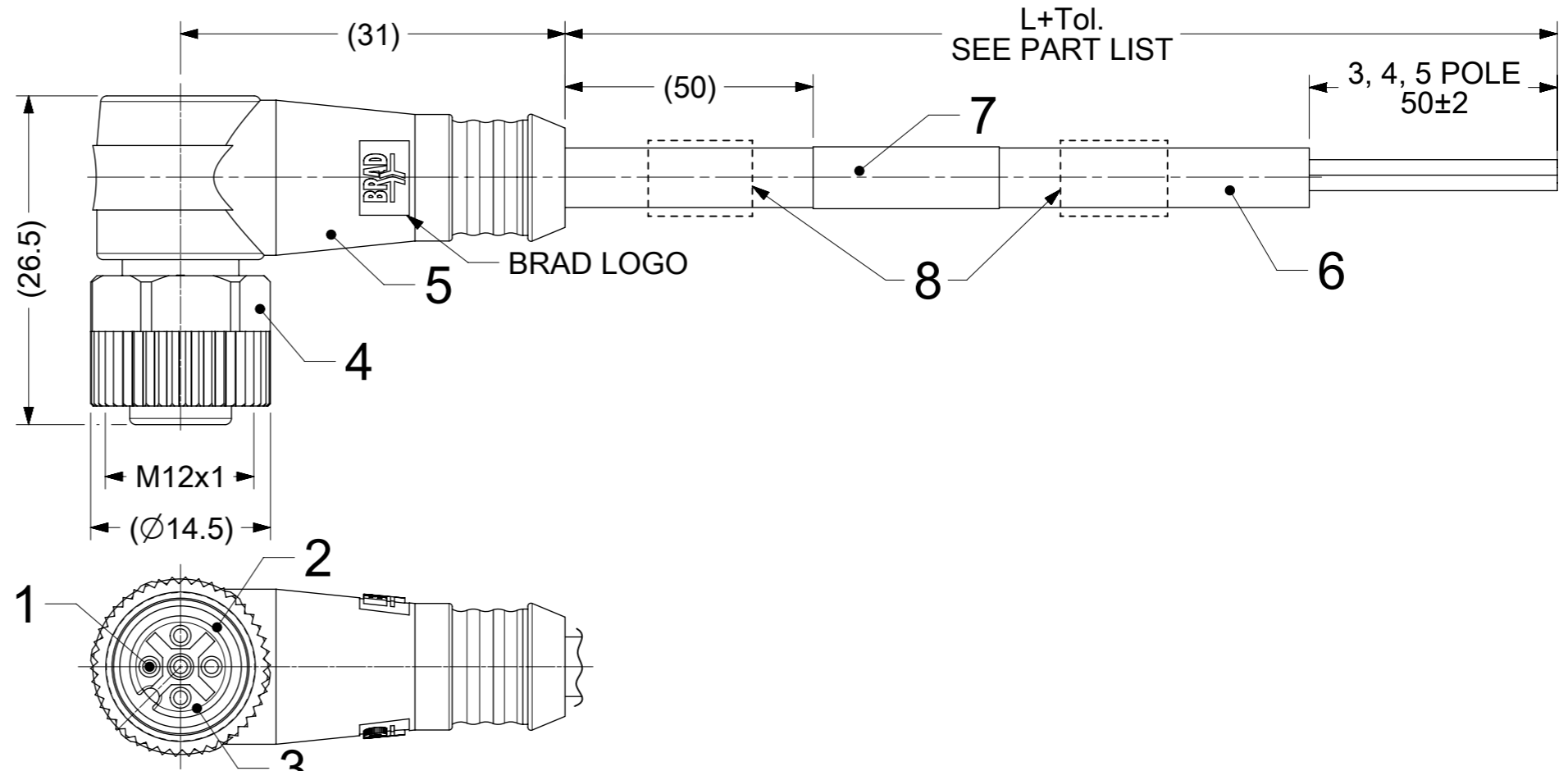


FEMALE PLUG M12 90° ANGLED

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

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH / COLOR
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 / 8	CONTACT M12 FEMALE	BRONZE	SELECTIVE Au OVER Ni
			BRASS	SELECTIVE Au OVER Ni
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	CURRENT REV DESC:		molex	
	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	EC NO: 697196 DRWN: SSM CHK'D: RSILLER APPR: RSILLER INITIAL REVISION: DRWN: SSM APPR: RSILLER			
DIVISIONAL SYMBOLS	THIRD ANGLE PROJECTION		DRAWING: A3-SIZE	SERIES: 120065	MATERIAL NUMBER: SEE SHEET 3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			CUSTOMER: GENERAL MARKET	DOCUMENT NUMBER: 1200656607	DOC TYPE: PSD
			DATE: 2021/12/13	DATE: 2022/02/28	DATE: 2022/02/28
			REVISION: 000	DOC PART: A	REVISION: A
			SHEET NUMBER: 1 OF 3		

CODING REQUIRED TO IEC 61076-2-101

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

8 0 X 0 0 1 X X X X X X X X

80=M12x1
Single ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
001=Plug Female
90° Angled

Cable type: See Table

Units:
M=Meter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

OVERMOLD COLOR:
BLANK (STANDARD)= BLACK
Y= YELLOW, A= GREY,
G= BLACK, R= RED

COUPLING NUT:
BLANK (STANDARD)= KNURLED
/HEX BRASS, Ni PLATED
7 = KNURLED BRASS, Ni PLATED,
TEFLON COATED
5 = KNURLED DERLIN

H = 2 pcs. of I/D Carrier
PVC Transparent
(Cables B36 always with
2 pcs. I/D Carrier)



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	DRAG CHAIN TESTED	OTHER	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm ²	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	0.25mm ²	SD-120209-006							
B36	4	0.34mm ²	TPU ORANGE							SD-120209-001
B33	4 / 5	0.34mm ²	TPU GRAY							SD-120209-001
B55	4 / 5	0.34mm ²	TPU YELLOW	1552200001 PS						

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		molex
	DIMENSION UNITS: mm SCALE: 1:1 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5	EC NO: 697196 DRWN: SSM 2021/12/13 CHK'D: RSILLER 2022/02/28 APPR: RSILLER 2022/02/28		
DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING A3-SIZE	SERIES 120065
DOCUMENT NUMBER 1200656607		DOC TYPE PSD	DOC PART 000	REVISION A
MATERIAL NUMBER SEE SHEET 3		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 3


PART LIST

MOLEX PN	ENGINEERING No	L [mm]
1200652259	803001B30M010	1000
1200652260	803001B30M020	2000
1200652261	803001B30M050	5000
1200652262	803001B30M100	10000
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
1200657144	804001B33M005A	500
1200656607	804001B33M010A	1000
1200656608	804001B33M020A	2000
1200656609	804001B33M030A	3000
1200656610	804001B33M050A	5000
1200656611	804001B33M100A	10000
1200656612	804001B33M150A	15000
1200656613	804001B33M200A	20000
1200656852	804001B36M0107Y	1000
1200656391	804001B36M0207H	2000
1200659432	804001B36M0207Y	2000
1200656392	804001B36M0507H	5000
1200659433	804001B36M0507Y	5000
1200656393	804001B36M1007H	10000
1200659434	804001B36M1007Y	10000
1200656627	804001B55M010Y	1000
1200656628	804001B55M020Y	2000
1200656629	804001B55M030Y	3000
1200656630	804001B55M050Y	5000
1200656631	804001B55M100Y	10000
1200656632	804001B55M150Y	15000
1200656633	804001B55M200Y	20000
1200659522	805001B30M010	1000
1200659523	805001B30M020	2000
1200656665	805001B30M030	3000

MOLEX PN	ENG No.	L [mm]
1200659524	805001B30M050	5000
1200659525	805001B30M100	10000
1200659748	805001B30M150	15000
1200656484	805001B30M200	20000
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
1200652267	805001B42M010	1000
1200652268	805001B42M020	2000
1200652269	805001B42M050	5000
1200652270	805001B42M100	10000
1200659542	805001B42M200	20000
1200656666	805001B55M010Y	1000
1200656667	805001B55M020Y	2000
1200656668	805001B55M030Y	3000
1200656669	805001B55M050Y	5000
1200656670	805001B55M100Y	10000
1200656671	805001B55M150Y	15000
1200656672	805001B55M200Y	20000
1200652310	808001B41M010	1000
1200652311	808001B41M020	2000
1200652312	808001B41M050	5000
1200659789	808001B41M083	8300
1200652313	808001B41M100	10000
1200656022	808001B41M150	15000
1200656486	808001B41M200	20000

TABLE OF LENGTH TOLERANCES		
OVER	UP TO AND INCLUDING	TOLERANCE
0	1000	+40 0
1000	5000	+60 0
5000	10000	+80 0
10000	20000	+140 0
20000	30000	+160 0
30000	>	+1% OF LENGTH

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

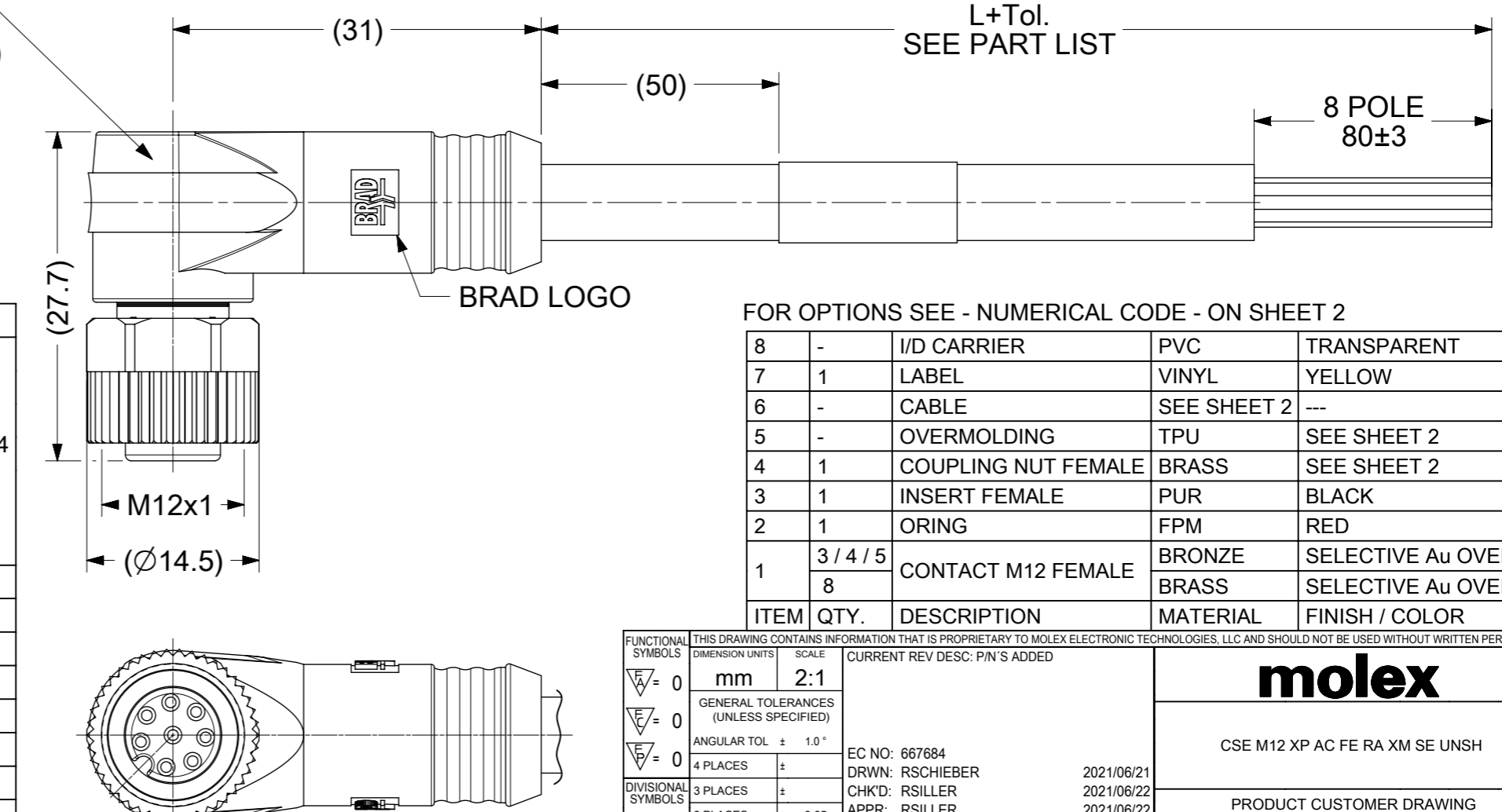
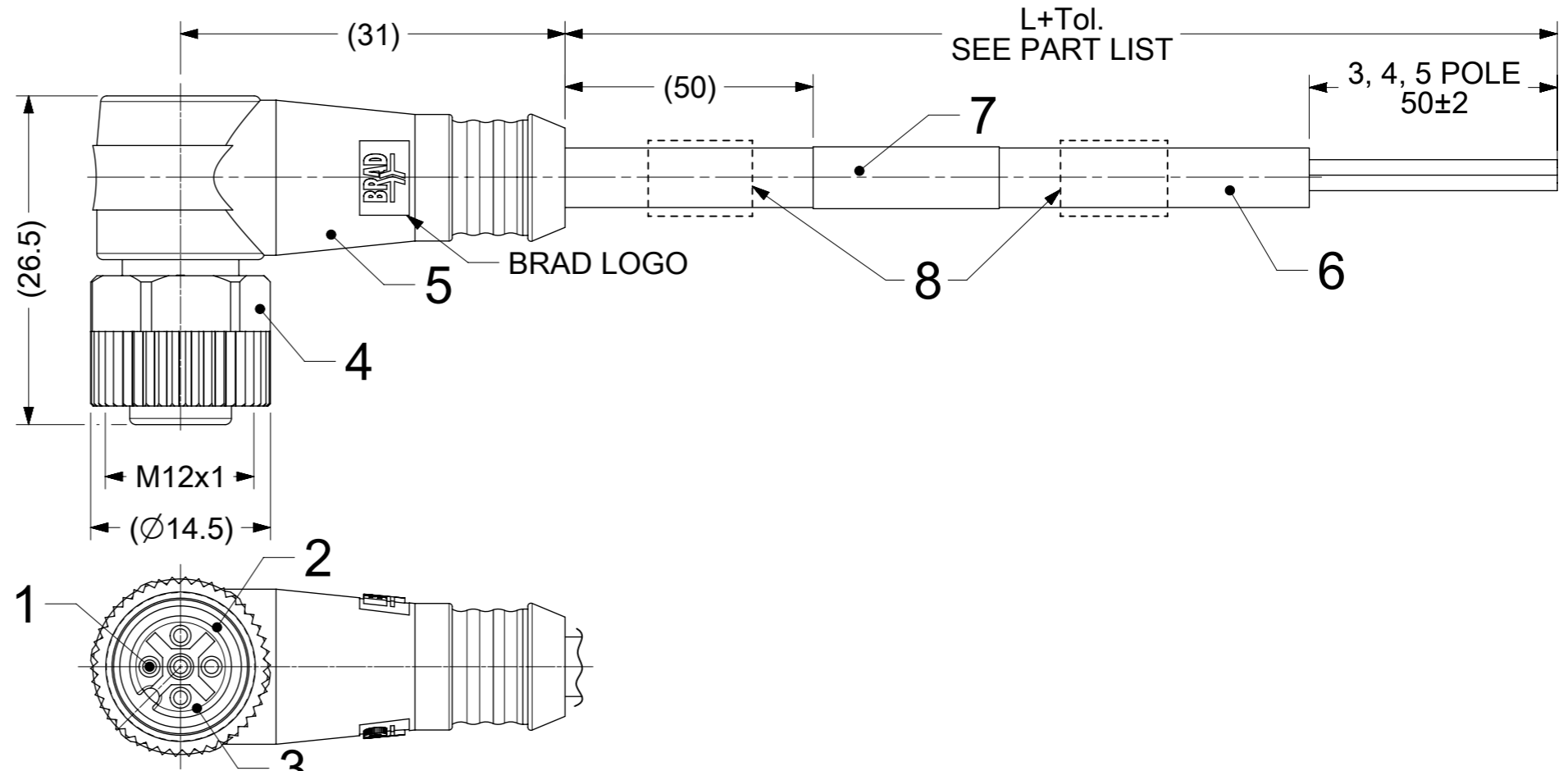
FUNCTIONAL SYMBOLS √A = 0 √E = 0 √V = 0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC:		 CSE M12 XP AC FE RA XM SE UNSH PRODUCT CUSTOMER DRAWING
	DIMENSION UNITS: mm	SCALE: 1:1	EC NO: 697196	
	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: SSM 2021/12/13	
	ANGULAR TOL ± 1.0°		CHK'D: RSILLER 2022/02/28	
DIVISIONAL SYMBOLS	4 PLACES ±	3 PLACES ±	APPR: RSILLER 2022/02/28	DOCUMENT NUMBER: 1200656607
	2 PLACES ± 0.05	1 PLACE ± 0.3	INITIAL REVISION:	DOC TYPE: PSD
	0 PLACES ± 0.5	DRWN: SSM 2021/12/13	APPR: RSILLER 2022/02/28	DOC PART: 000
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SHEET NUMBER: 3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2022/02/28	09:13:47
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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

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH / COLOR
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 8	CONTACT M12 FEMALE	BRONZE	SELECTIVE Au OVER Ni
			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: $\nabla/A = 0$, $\nabla/E = 0$, $\nabla/P = 0$

DIVISIONAL SYMBOLS: 4 PLACES \pm , 3 PLACES \pm , 2 PLACES ± 0.05 , 1 PLACE ± 0.3 , 0 PLACES ± 0.5

THIRD ANGLE PROJECTION:

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

SCALE: 2:1

GENERAL TOLERANCES (UNLESS SPECIFIED): ANGULAR TOL $\pm 1.0^\circ$

EC NO: 667684
 DRWN: RSCHIEBER 2021/06/21
 CHK'D: RSILLER 2021/06/22
 APPR: RSILLER 2021/06/22

INITIAL REVISION:
 DRWN: FSCHAFHAUSER 2014/02/10
 APPR: CBURGER 2014/05/07

CURRENT REV DESC: PIN'S ADDED

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

SHEET NUMBER: 1 OF 3

CODING REQUIRED TO IEC 61076-2-101

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

8 0 X 0 0 1 X X X X X X X X

80=M12x1
Single ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
001=Plug Female
90° Angled

Cable type: See Table

Units:
M=Meter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

OVERMOLD COLOR:
BLANK (STANDARD)= BLACK
Y= YELLOW, A= GREY,
G= BLACK, R= RED

COUPLING NUT:
BLANK (STANDARD)= KNURLED
/HEX BRASS, Ni PLATED
7 = KNURLED BRASS, Ni PLATED,
TEFLON COATED
5 = KNURLED DERLIN

H = 2 pcs. of I/D Carrier
PVC Transparent
(Cables B36 always with
2 pcs. I/D Carrier)



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	DRAG CHAIN TESTED	OTHER	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm ²	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	0.25mm ²	SD-120209-006							
B36	4	0.34mm ²	TPU ORANGE							SD-120209-001
B33	4 / 5	0.34mm ²	TPU GRAY							SD-120209-001
B55	4 / 5	0.34mm ²	TPU YELLOW							1552200001 PS

FUNCTIONAL SYMBOLS $\nabla_A = 0$ $\nabla_B = 0$ $\nabla_C = 0$	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	SCALE 1:1	CURRENT REV DESC: PIN'S ADDED				
	mm	GENERAL TOLERANCES (UNLESS SPECIFIED)	EC NO: 667684 DRWN: RSCHIEBER 2021/06/21 CHK'D: RSILLER 2021/06/22 APPR: RSILLER 2021/06/22				
	ANGULAR TOL $\pm 1.0^\circ$	4 PLACES \pm					
	DIVISIONAL SYMBOLS	3 PLACES \pm	INITIAL REVISION:				
2 PLACES ± 0.05	1 PLACE ± 0.3	DRWN: FSCHAFHAUSER 2014/02/10	2014/05/07	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
0 PLACES ± 0.5	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



CSE M12 XP AC FE RA XM SE UNSH

PRODUCT CUSTOMER DRAWING

SD-120065-076 PSD 001 A5

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

Lp.	MOLEX PN	ENGINEERING No	L+Tol. [mm]
41	1200656609	804001B33M030A	3000+60
42	1200656610	804001B33M050A	5000 +60
43	1200656611	804001B33M100A	10000 +80
44	1200656612	804001B33M150A	15000 +160
45	1200656613	804001B33M200A	20000 +160
46	1200656658	805001B33M010A	1000 +40
47	1200656659	805001B33M020A	2000 +60
48	1200656660	805001B33M030A	3000+60
49	1200656661	805001B33M050A	5000 +60
50	1200656662	805001B33M100A	10000 +80
51	1200656663	805001B33M150A	15000 +160
52	1200656664	805001B33M200A	20000 +160
53	1200656665	805001B30M030	3000 +60
55	1200656627	804001B55M010Y	1000 +40
56	1200656628	804001B55M020Y	2000 +60
57	1200656629	804001B55M030Y	3000+60
58	1200656630	804001B55M050Y	5000 +60
59	1200656631	804001B55M100Y	10000 +80
60	1200656632	804001B55M150Y	15000 +160
61	1200656633	804001B55M200Y	20000 +160
62	1200656666	805001B55M010Y	1000 +40
63	1200656667	805001B55M020Y	2000 +60
64	1200656668	805001B55M030Y	3000+60
65	1200656669	805001B55M050Y	5000 +60
66	1200656670	805001B55M100Y	10000 +80
67	1200656671	805001B55M150Y	15000 +160
68	1200656672	805001B55M200Y	20000 +160
69	1200651313	804001B02M040	4000 +60
70	1200651315	804001B02M050	5000 +60
71	1200656852	804001B36M0107Y	1000 +40

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

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