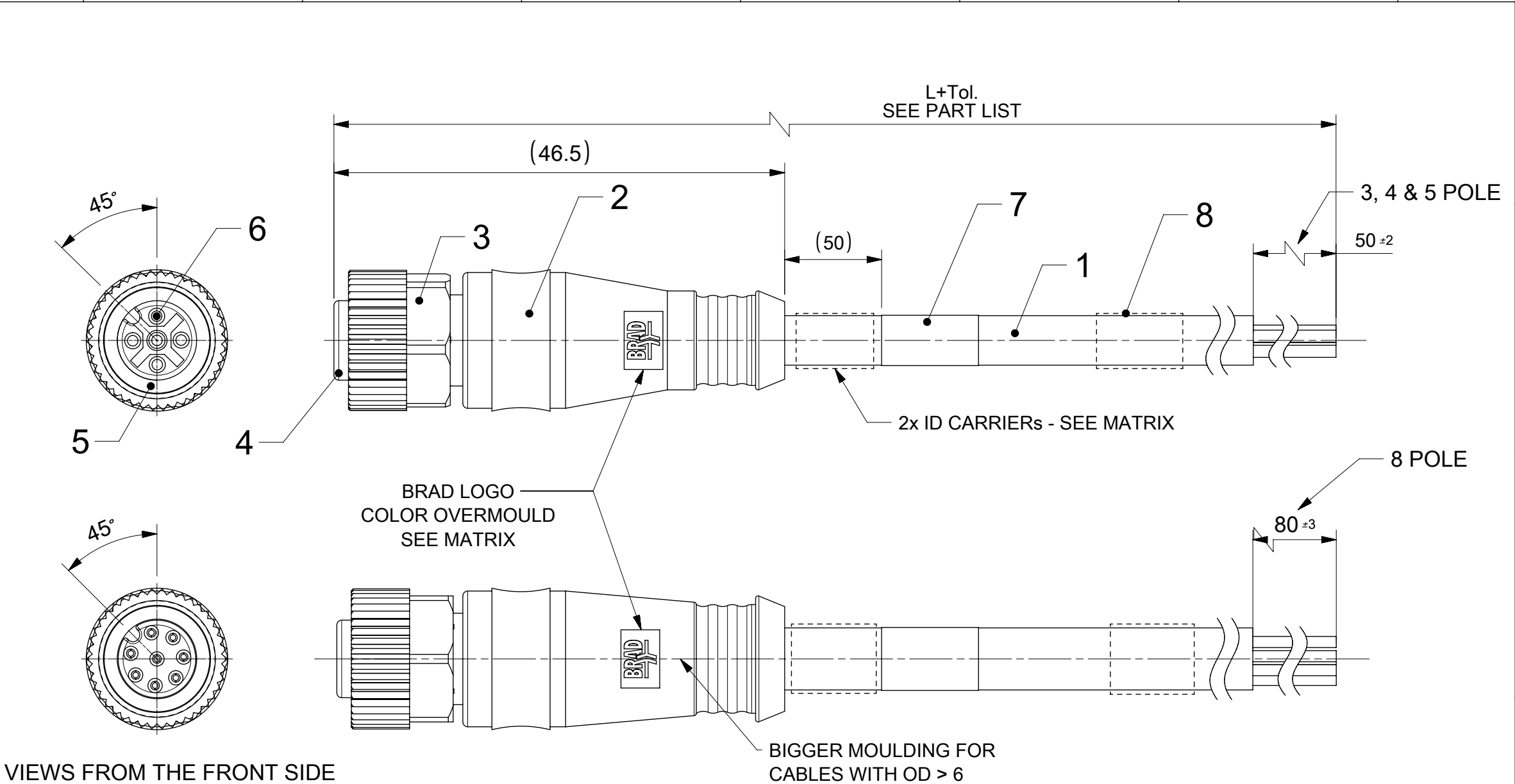
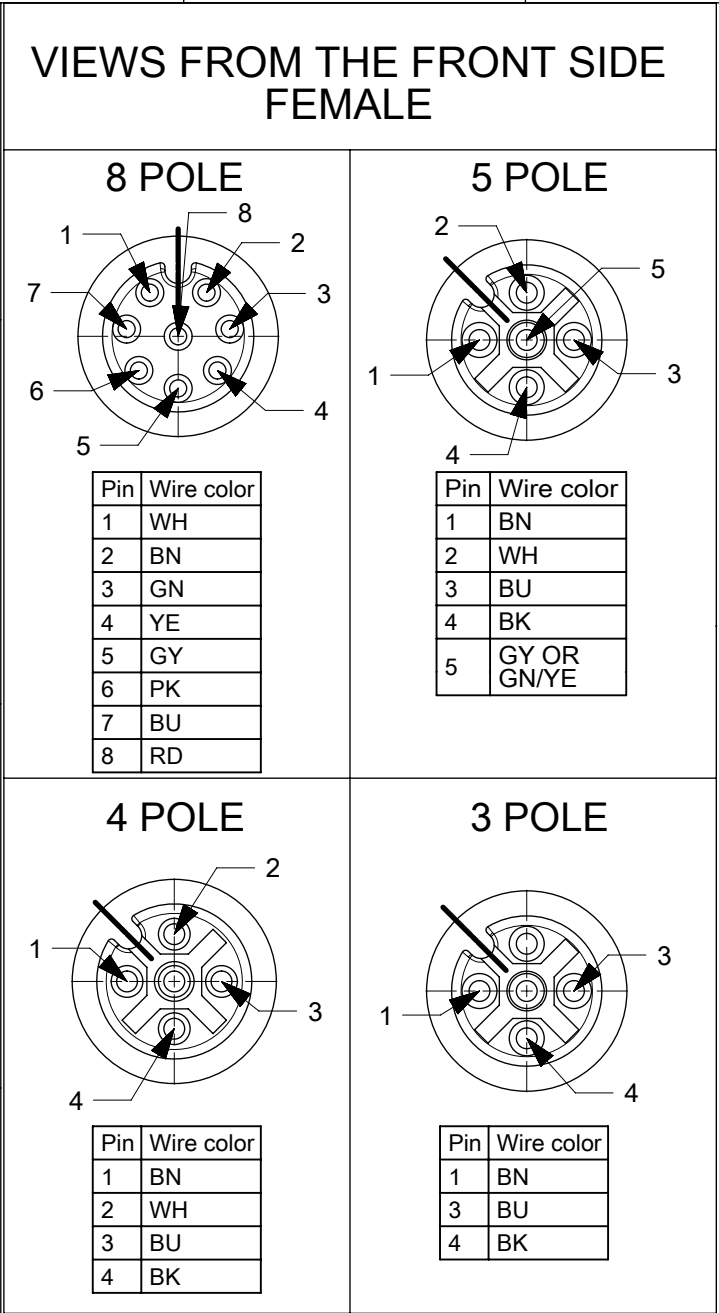




NOTES:

TEMPERATURE RANGE : SEE CABLE LIST

RATED VOLTAGE: 3, 4 contacts : 250V
5 contacts : 60V
8 contacts : 30V

RATED CURRENT: 3, 4, 5 contacts : 4A
8 contacts : 2A

INSULATION RESISTANCE: 10⁸ Ω MIN.

MATING CYCLES: MIN. 100

ENVIRONMENTAL:PROTECTION: IP67 IN MATED AND LOCKED POSITION

BILL OF MATERIAL

8	0/2	I/D CARRIER	-	-
7	1	LABEL	VINYL	YELLOW
6	3/4/5/8	CONTACTS	BRASS	GOLD OVER Ni-PLATED
5	1	GASKET	FPM	RED
4	1	FEMALE INSERT	PUR	BLACK
3	1	COUPLING NUT	BRASS	Ni-PLATED
2	-	OVERMOULD	TPU	BLACK
1	-	CABLE	SEE CABLE LIST	SEE CABLE LIST
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR

FUNCTIONAL SYMBOLS FA=0 FE=0 FE=0	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC: CABLE LIST INFORMATIONS ADDED						
	DIMENSION UNITS mm	SCALE 2:1	EC NO: 788824					
	GENERAL TOLERANCES (UNLESS SPECIFIED)		DRWN: RSCHIEBER 2024/06/07					
	ANGULAR TOL ± 1.0 °		CHK'D: RSILLER 2024/06/11					
	4 PLACES ±		APPR: RSILLER 2024/06/11					
	3 PLACES ±		INITIAL REVISION:					
DIVISIONAL SYMBOLS	2 PLACES ± 0.05		DRWN: SSM 2021/12/16		DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
	1 PLACE ± 0.3		APPR: RSILLER 2022/02/28		1200652251	PSD	000	B1
	0 PLACES ± 0.5		THIRD ANGLE PROJECTION		MATERIAL NUMBER		CUSTOMER	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING A3-SIZE		SERIES 120065		SHEET NUMBER	
					SEE PART LIST		GENERAL MARKET	
							1 OF 3	

8 0 X 0 0 0 B X X X X X X X X

80 = M12x1
SINGLE ENDED

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES
8 = 8 POLES

HEADER:
000 = FEMALE STRAIGHT

CABLE:
B30 = 0,34mm², TPU BLACK
B33 = 0,34mm², TPU GREY
B36 = 0,34mm², TPU ORANGE
B39 = 0,75mm², TPU BLACK
B41 = 0,25mm², TPU BLACK
B42 = 0,34mm², TPU BLACK
B49 = 0,25mm², TPU ORANGE
B55 = 0,34mm², TPU YELLOW

UNIT:
M = METER
C = CENTIMETER
T = 10 x METER

LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

OVERMOLD COLOR:
BLANK (STANDARD) =
A = GY, G = BK, Y = YE
COUPLING NUT:
BLANK (STANDARD)
= KNURLED/HEX BRASS
5 = KNURLED DERLIN
7 = KNURLED BRASS
TEFLON COATED
H = 2x ID CARRIERS
ALWAYS FOR CABLE

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL 21215	CSA	ISO6722	ISO14572	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAW CHAIN	OTHER
B30	3 / 4 / 5	0.34mm²	TPU Black	YES	YES	YES	YES	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	WELD SLAG RESISTANCE
B41	8	0.25mm²	TPU Black								
B42	5	0.34mm²	TPU Black								
B33	4 / 5	0.34mm²	TPU Gray								
B55	4 / 5	0.34mm²	TPU Yellow								
B36	4 / 5	0.34mm²	TPU Orange								
B39	5	0.34mm²	TPU Yellow								

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

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: CABLE LIST INFORMATION ADDED			molex									
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)																
	ANGULAR TOL ± 1.0°																
	4 PLACES		±														
	3 PLACES		±		PRODUCT CUSTOMER DRAWING												
	2 PLACES		± 0.05														
	1 PLACE		± 0.3		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION						
	0 PLACES		± 0.5														
DIVISIONAL SYMBOLS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
								A3-SIZE		120065		SEE PART LIST		GENERAL MARKET		2 OF 3	

F

EDCBA

1

The technical drawing illustrates the design of a cable connector through three distinct views:

- VIEW FROM THE FRONT SIDE SCALE 2:1**: This top view shows the circular face of the connector. It features eight contact points arranged in two concentric circles. Labels 4, 5, and 6 point to specific internal components or features.
- VIEW FROM THE FRONT SIDE SCALE 2:1**: This bottom view shows the reverse side of the connector's face, highlighting the arrangement of the contact pins.
- Side View**: A longitudinal section of the connector is shown with various dimensions:
 - Total length: $L + Tol.$
 - Length of the main body: (46.3)
 - Length of the tail section: 50 ± 5
 - Outer diameter of the main body: $(\varnothing 14.5)$
 - Dimensions for different pole counts:
 - For 3, 4, or 5 poles: 50 ± 2
 - For 8 poles: 80 ± 3

Additional annotations include:

- A label "Thicker Overmould for Cables with bigger Outer Diameter" pointing to a specific feature on the side view.
- Reference numbers 1, 2, 3, and 7 identifying key parts of the assembly.

		3 CONTACTS	4 CONTACTS	5 CONTACTS	8 CONTACTS																																																
FEMALE																																																					
CONNECTIONS		<table border="1"> <thead> <tr> <th>PIN</th> <th>WIRE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BROWN</td> </tr> <tr> <td>3</td> <td>BLUE</td> </tr> <tr> <td>4</td> <td>BLACK</td> </tr> </tbody> </table>	PIN	WIRE	1	BROWN	3	BLUE	4	BLACK	<table border="1"> <thead> <tr> <th>PIN</th> <th>WIRE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BROWN</td> </tr> <tr> <td>2</td> <td>WHITE</td> </tr> <tr> <td>3</td> <td>BLUE</td> </tr> <tr> <td>4</td> <td>BLACK</td> </tr> </tbody> </table>	PIN	WIRE	1	BROWN	2	WHITE	3	BLUE	4	BLACK	<table border="1"> <thead> <tr> <th>PIN</th> <th>WIRE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BROWN</td> </tr> <tr> <td>2</td> <td>WHITE</td> </tr> <tr> <td>3</td> <td>BLUE</td> </tr> <tr> <td>4</td> <td>BLACK</td> </tr> <tr> <td>5</td> <td>GREY OR GREEN/YELLOW</td> </tr> </tbody> </table>	PIN	WIRE	1	BROWN	2	WHITE	3	BLUE	4	BLACK	5	GREY OR GREEN/YELLOW	<table border="1"> <thead> <tr> <th>PIN</th> <th>WIRE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>WHITE</td> </tr> <tr> <td>2</td> <td>BROWN</td> </tr> <tr> <td>3</td> <td>GREEN</td> </tr> <tr> <td>4</td> <td>YELLOW</td> </tr> <tr> <td>5</td> <td>GREY</td> </tr> <tr> <td>6</td> <td>PINK</td> </tr> <tr> <td>7</td> <td>BLUE</td> </tr> <tr> <td>8</td> <td>RED</td> </tr> </tbody> </table>	PIN	WIRE	1	WHITE	2	BROWN	3	GREEN	4	YELLOW	5	GREY	6	PINK	7	BLUE	8	RED
PIN	WIRE																																																				
1	BROWN																																																				
3	BLUE																																																				
4	BLACK																																																				
PIN	WIRE																																																				
1	BROWN																																																				
2	WHITE																																																				
3	BLUE																																																				
4	BLACK																																																				
PIN	WIRE																																																				
1	BROWN																																																				
2	WHITE																																																				
3	BLUE																																																				
4	BLACK																																																				
5	GREY OR GREEN/YELLOW																																																				
PIN	WIRE																																																				
1	WHITE																																																				
2	BROWN																																																				
3	GREEN																																																				
4	YELLOW																																																				
5	GREY																																																				
6	PINK																																																				
7	BLUE																																																				
8	RED																																																				

7	1	LABEL YE	VINYL	-
6	3/4/5/8	CONTACT FE	BRASS	GOLD OVER Ni-PLATED
5	1	GASKET RD	FPM	-
4	1	INSERT M12 FE XP BK	PUR	-
3	1	COUPLING NUT M12 FE	SEE SHEET 2	SEE SHEET 2
2	-	OVERMOULDING	SEE SHEET 2	SEE SHEET 2
1	-	CABLE	SEE SHEET 2	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FORMAT: master-tb-prod-A3 REVISION: J1 DATE: 2021/05/01	9	8
---	---	---

ENGINEERING NO - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

8

0

X

0

0

0

B

X

X

M

X

X

X

X

88 = M12x1
SINGLE ENDED

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES
8 = 8 POLES

HEADER:
000 = PLUG FEMALE STRARIGHT

CABLE TYPE:
SEE TABLE

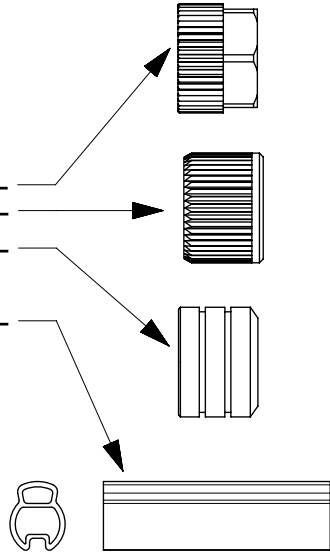
UNIT:
M = METER

LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated

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: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE SPEC. DRAWING
B30	3 / 4 / 5	0.34mm²	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	-5°C to +60°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	SD-120209-001
B33	4 / 5	0.34mm²	TPU Gray							SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange							SD-120209-001
B39	5	0.75mm²	TPU Gray							n/a
B41	8	0.25mm²	TPU Black							SD-120209-006
B42	5	0.34mm²	TPU Black							SD-120209-001
B49	8	0.25mm²	TPU Orange							SD-120209-006
B55	3 / 4 / 5	0.34mm²	TPU Yellow							n/a

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		
DOCUMENT STATUS	P1	RELEASE DATE	2021/10/18	12:08:57

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: STANDARDIZATION					
	DIMENSION UNITS	SCALE	molex					
DIVISIONAL SYMBOLS	mm		1:1		GENERAL TOLERANCES (UNLESS SPECIFIED)			
	ANGULAR TOL		±	°	4 PLACES			
	3 PLACES		±		2 PLACES			
	2 PLACES		±		1 PLACE			
	1 PLACE		±		0 PLACES			
	0 PLACES		±		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			
	THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		
	A3-SIZE		120065	SEE PART LIST	SHEET NUMBER			
EC NO: 681756			2021/10/18		2021/10/18			
DRWN: MKOWALCZYK01			2021/10/18		2021/10/18			
CHK'D: ALEKSP3			2021/10/18		2021/10/18			
APPR: KMARCINIAK01			2021/10/18		2021/10/18			
INITIAL REVISION:			2016/11/26		2016/12/06			
DRWN: AKONDRACIUK			2016/11/26		2016/12/06			
APPR: MIWASIECZKO			2016/11/26		2016/12/06			
DOCUMENT NUMBER			1200652251		PSD			
DOC TYPE			00P		B2			
SHEET NUMBER			2 OF 2					

FORMAT: master-b-prod-A3
REVISION: 11
DATE: 2021/05/01

987654321