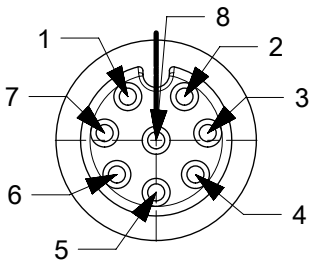


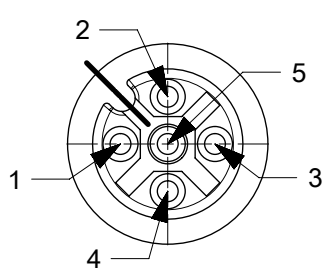
VIEWS FROM THE FRONT SIDE
 FEMALE

8 POLE



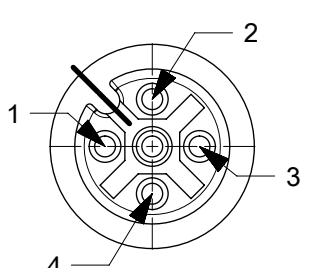
Pin	Wire color
1	WH
2	BN
3	GN
4	YE
5	GY
6	PK
7	BU
8	RD

5 POLE



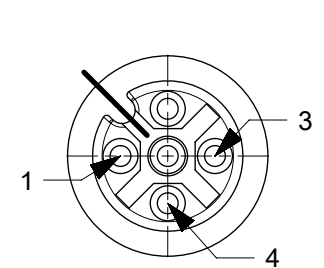
Pin	Wire color
1	BN
2	WH
3	BU
4	BK
5	GY OR GN/YE

4 POLE

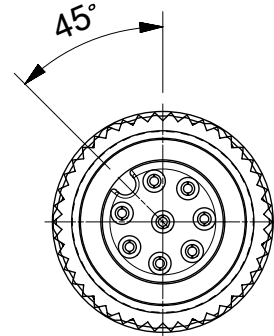
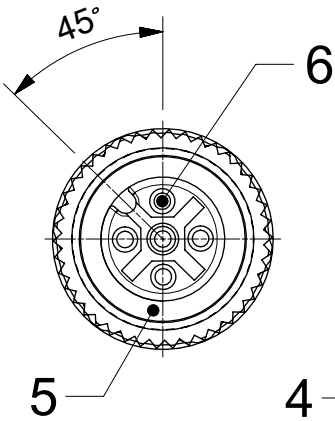


Pin	Wire color
1	BN
2	WH
3	BU
4	BK

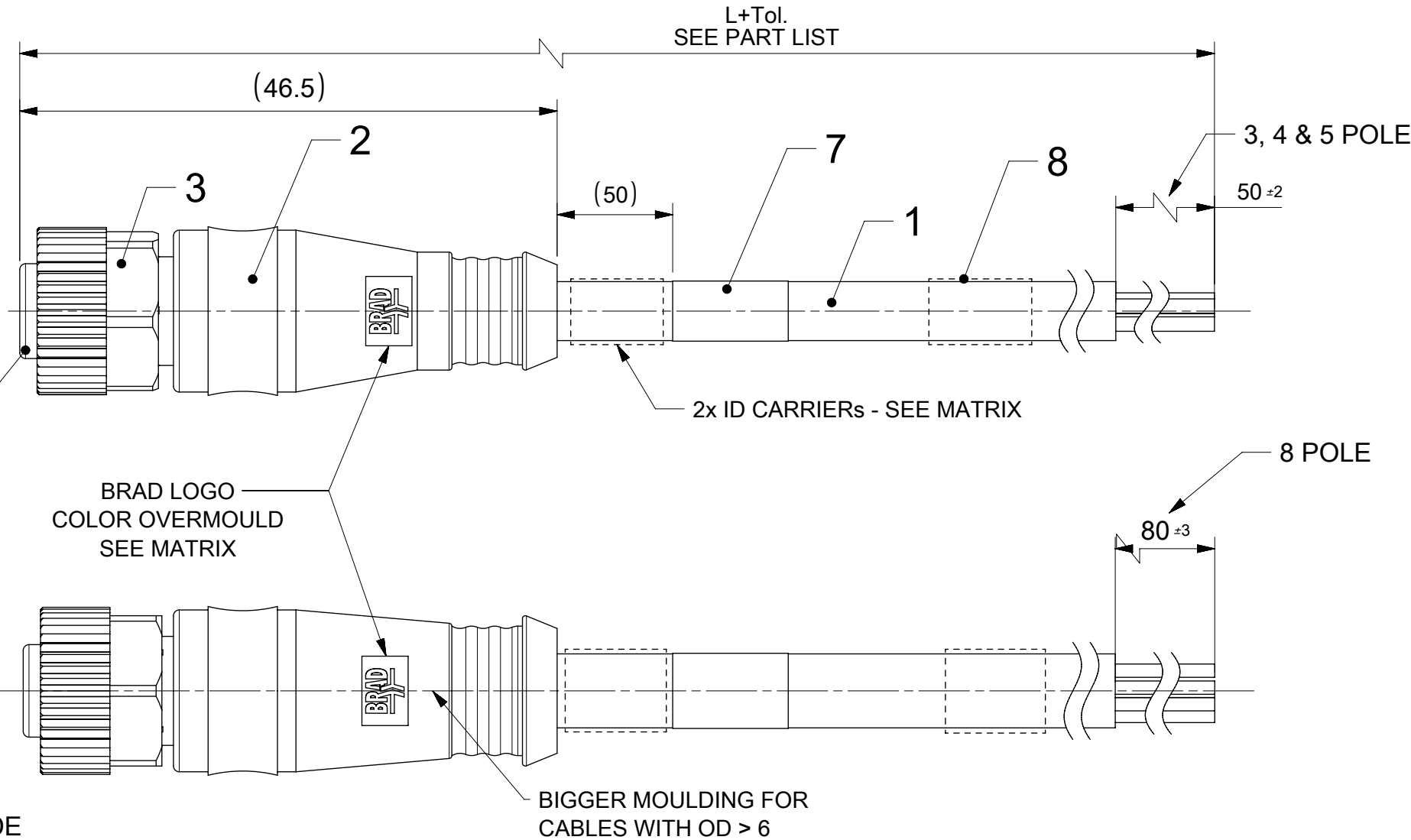
3 POLE



Pin	Wire color
1	BN
3	BU
4	BK



VIEWS FROM THE FRONT SIDE



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	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	molex CSE M12 XP AC FE STR WSOR XM SE UNSH BK			
FA = 0 FE = 0 FE = 0	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 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	EC NO: 788824	DRWN: RSCHIEBER				
DIVISIONAL SYMBOLS		2024/06/07	2024/06/11	PRODUCT CUSTOMER DRAWING			
		2021/12/16	2022/02/28	INITIAL REVISION:			
		DRWN: SSM	2021/12/16	DOCUMENT NUMBER			
		APPR: RSILLER	2022/02/28	1200652251			
		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		A3-SIZE	120065	SEE PART LIST	GENERAL MARKET	1 OF 3	

DOCUMENT STATUS	P1	RELEASE DATE	2024/06/11	05:15:45
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The diagram shows a 16-character code: 8 0 X 0 0 0 B X X X X X X X X. Below the code, 15 callout boxes provide details:

- 8**: 80 = M12x1 SINGLE ENDED
- 0**: POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES
8 = 8 POLES
- X 0 0 0**: HEADER:
000 = FEMALE STRAIGHT
- B**: 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
- X**: UNIT:
M = METER
C = CENTIMETER
T = 10 x METER
- X X X X X X X X**: LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m
- X X X X X X X X**: 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	DRAG 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 FA = 0 FE = 0 FE = 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: CABLE LIST INFORMATION ADDITIONED				molex CSE M12 XP AC FE STR WSOR XM SE UNSH BK													
		mm		1:1																			
		GENERAL TOLERANCES (UNLESS SPECIFIED)																					
		ANGULAR TOL ± 1.0°																					
		4 PLACES		±						EC NO: 788824 DRWN: RSCHIEBER 2024/06/07 CHK'D: RSILLER 2024/06/11 APPR: RSILLER 2024/06/11				PRODUCT CUSTOMER DRAWING									
		3 PLACES		±																			
		2 PLACES		± 0.05																			
		1 PLACE		± 0.3		INITIAL REVISION: DRWN: SSM 2021/12/16 APPR: RSILLER 2022/02/28								DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
		0 PLACES		± 0.5										1200652251				PSD		000		B1	
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

EDBCA

1

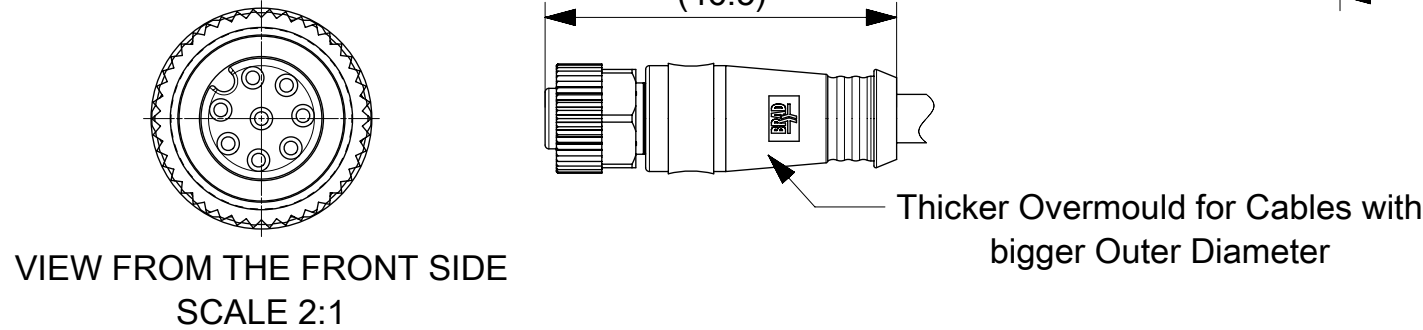
Technical drawing of the 1000 Series Drill Bit, showing side and cross-sectional views with dimensions.

Dimensions:

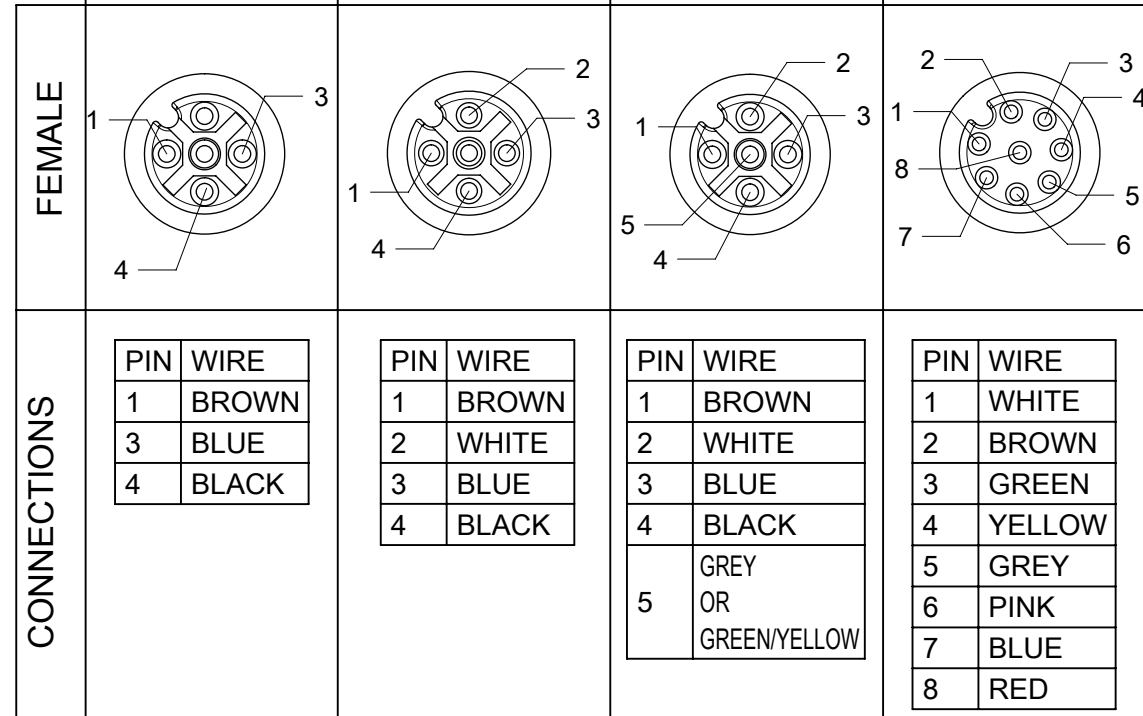
- Overall length: $L + Tol.$
- Main body length: (46.3)
- Main body diameter: $(\varnothing 14.5)$
- Cutting edge length: 50 ± 5

Labels:

- 1: Drill bit body
- 4: Flute
- 5: Flute



3 CONTACTS	4 CONTACTS	5 CONTACTS	8 CONTACTS
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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

FUNCTIONAL SYMBOLS FA = 0 FE = 0 FF = 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: STANDARDIZATION						molex CSE M12 XP AC FE STR WSOR XM SE UNSH													
		mm		1:1																					
		GENERAL TOLERANCES (UNLESS SPECIFIED)																							
		ANGULAR TOL		± °								EC NO: 681756 DRWN: MKOWALCZYK012021/10/18 CHK'D: ALEKSP32021/10/18 APPR: KMARCINIAK012021/10/18													
4 PLACES		±																							
3 PLACES		±																							
		2 PLACES		±		INITIAL REVISION: DRWN: AKONDRACIUOK2016/11/26 APPR: MIWASIECZKO2016/12/06						DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION					
		1 PLACE		±								1200652251				PSD		00P		B2					
		0 PLACES		±																					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER				CUSTOMER				SHEET NUMBER			
										A3-SIZE		120065		SEE PART LIST								1 OF 2			

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

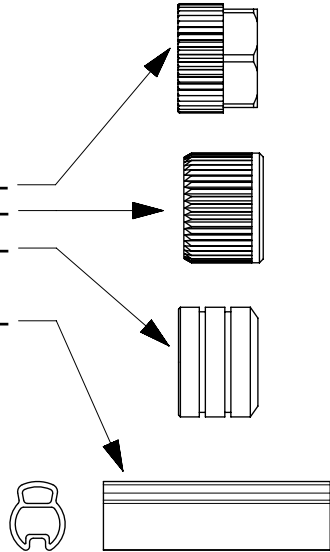
UNIT:
M = METER

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)

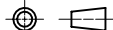


OPTIONS

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

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

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