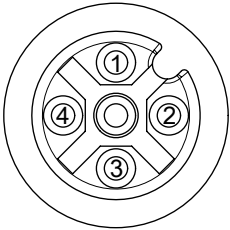


M12 FEMALE

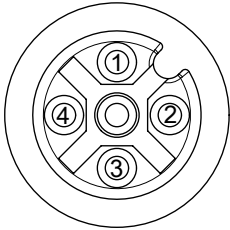
3 POLE



VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BROWN
2	-
3	BLUE
4	BLACK

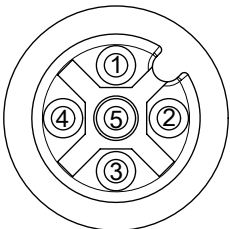
4 POLE



VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK

5 POLE

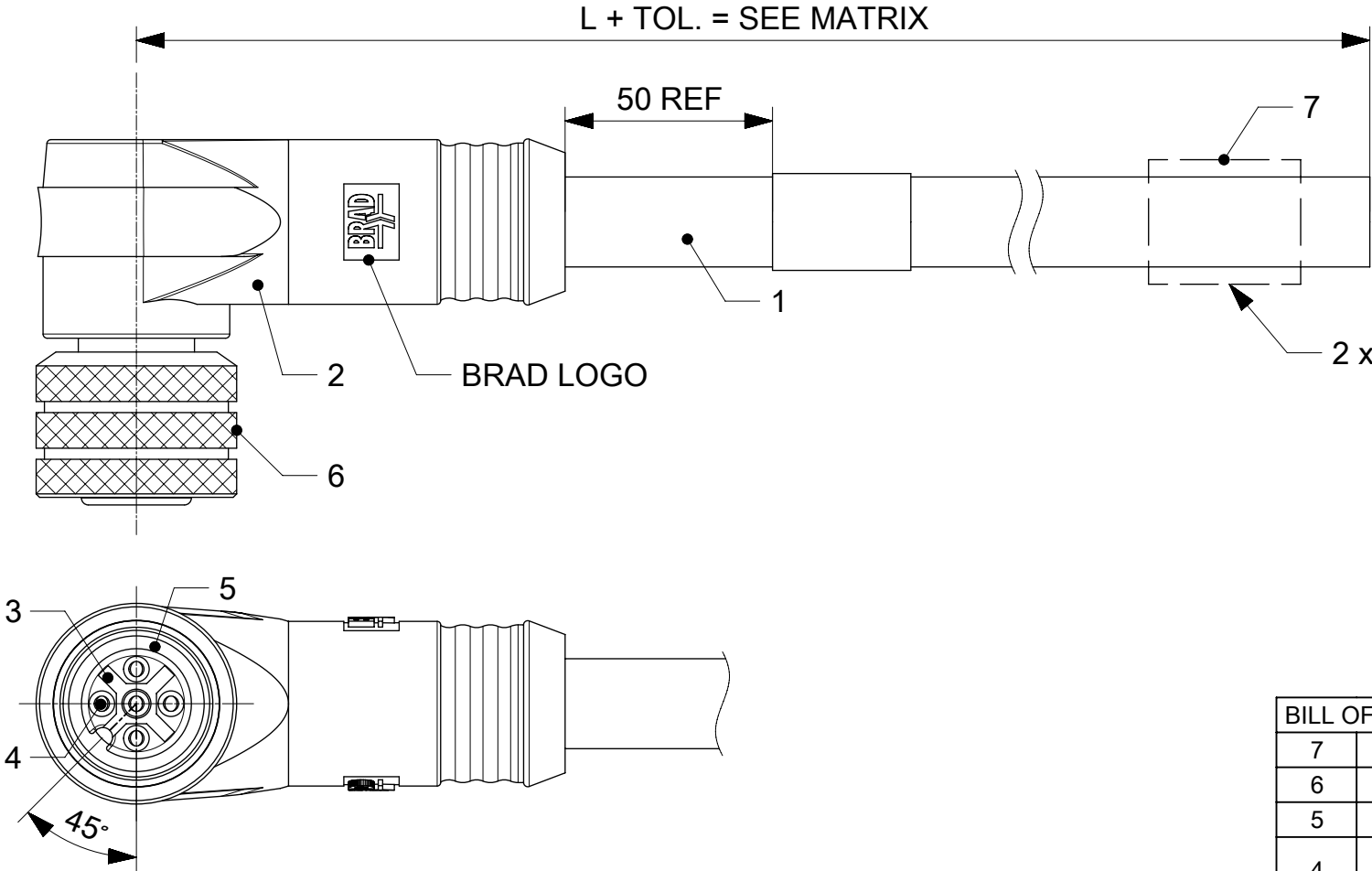


VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

SHIELD CONNECTED TO THE HOUSING

VIEW FROM THE FRONT SIDE



PART No MATRIX - NUMERICAL CODE (AVAILABLE PARTS SEE PART LIST TABLE. OTHERS PARTS AVAILABLE UPON REQUEST).

8 0 * S 0 1 * * * M * * * *

8 = MICRO CHANGE

8 = PORTABLE

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

HEADER:
S01 = SHIELDED FEMALE 90°

CABLE TYPE:
S19 = PVC, 0,25mm², YELLOW
S20 = PVC, 0,34mm², YELLOW
S26 = PVC, 0,34mm², YELLOW
P19 = PUR, 0,34mm², BLACK
P20 = PUR, 0,34mm², BLACK

UNIT:
M = METER
F = FEET
A = INCHES
C = CENTIMETERS

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

COUPLIN NUT MATERIAL:
BLANK = KNU
1 = STAINLESS STEEL
5 = DERLIN
7 = TEFLON COATED
9 = KNU/HEX
H = 2 PCS. OF I/D CARIERR

MOLDING COLOR:
BLANK = YELLOW PUR FOR CABLE
S26, S20 I S19
BLANK = BLACK PUR (STANDARD)
A = GREY
G = BLACK
Y = YELLOW

BILL OF MATERIAL				
7	X	ID CARRIER (SEE MATRIX)	PVC	-
6	1	COUPLING NUT (SEE MATRIX)	-	-
5	1	GASKET	FPM	RED
4	X	CONTACT FE	BRONZE	GOLD OVER NICKEL PLATED
3	1	INSERT XP FE	ELASTOLLAN	BLACK
2	-	MOULDING MATERIAL	TPU	-
1	-	CABLE (SEE MATRIX)	-	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

TABLE OF LENGTH TOLERANCES		
OVER	UP TO AND INCLUDING	TOLERANCE (+)
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

RELEASE STATUS	P1	RELEASE DATE	22.07.2016	09:50:12
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2016/07/20

2016/07/22

EC NO: 106875

DRWN: MMATLA

CHK'D: MIWASIECZKO

APPR: MIWASIECZKO

REV

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± °

4 PLACES ±

3 PLACES ±

2 PLACES ±

1 PLACE ±

0 PLACES ±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION UNITS

MM

DRWN BY

MMATLA

CHK'D BY

DATE

APPR BY

MIWASIECZKO

DRAWING SIZE

A3

SCALE

2:1

DATE

2016/07/20

DATE

2016/07/22

THIRD ANGLE PROJECTION

molex®

MMC-XP-FE-90-XXX-PUR-SHIELDED

PRODUCT CUSTOMER DRAWING

SERIES

120010

MATERIAL NUMBER

SEE MATRIX

CUSTOMER

DOCUMENT NUMBER

1200100247

DOC TYPE

PSD

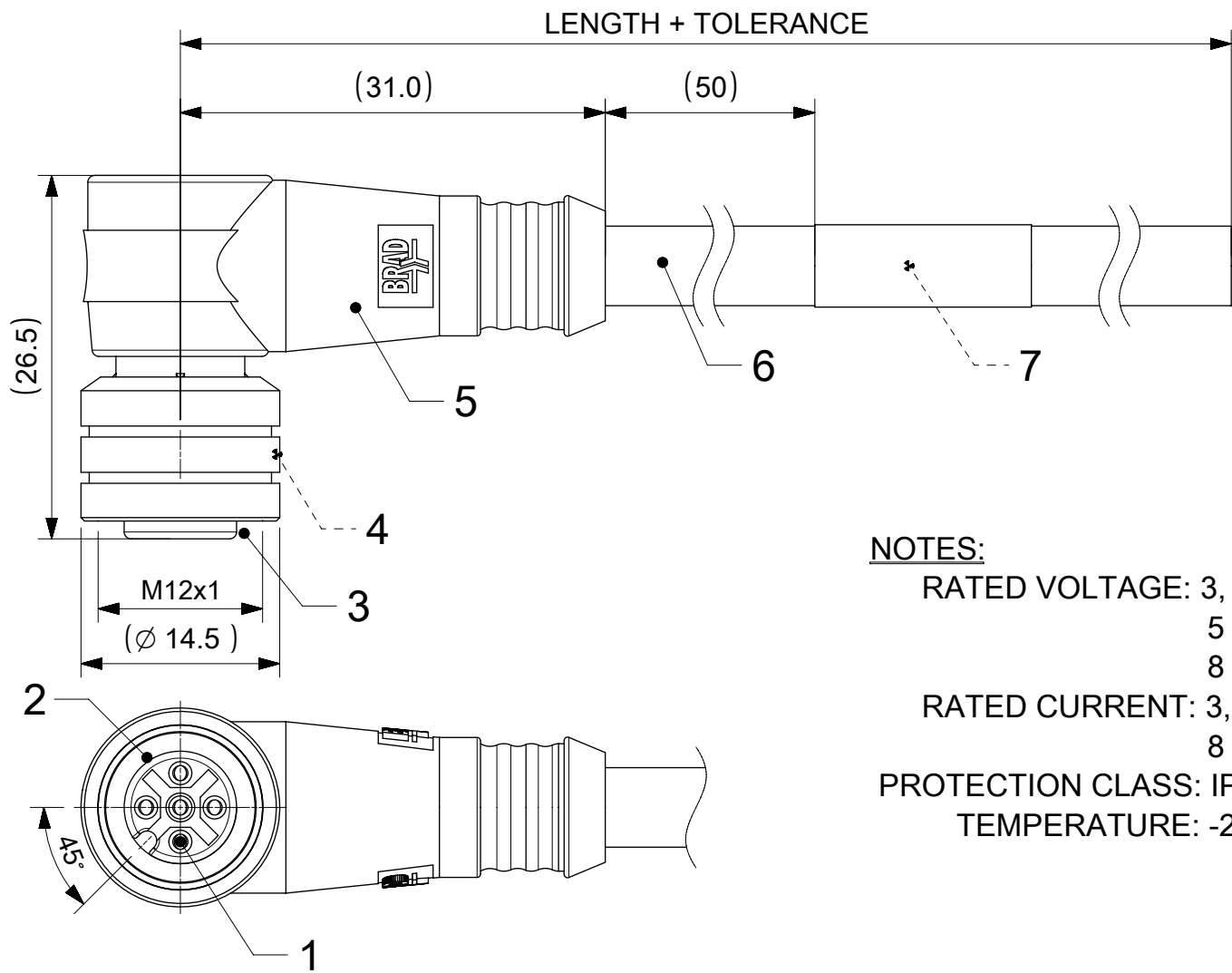
DOC PART

00P

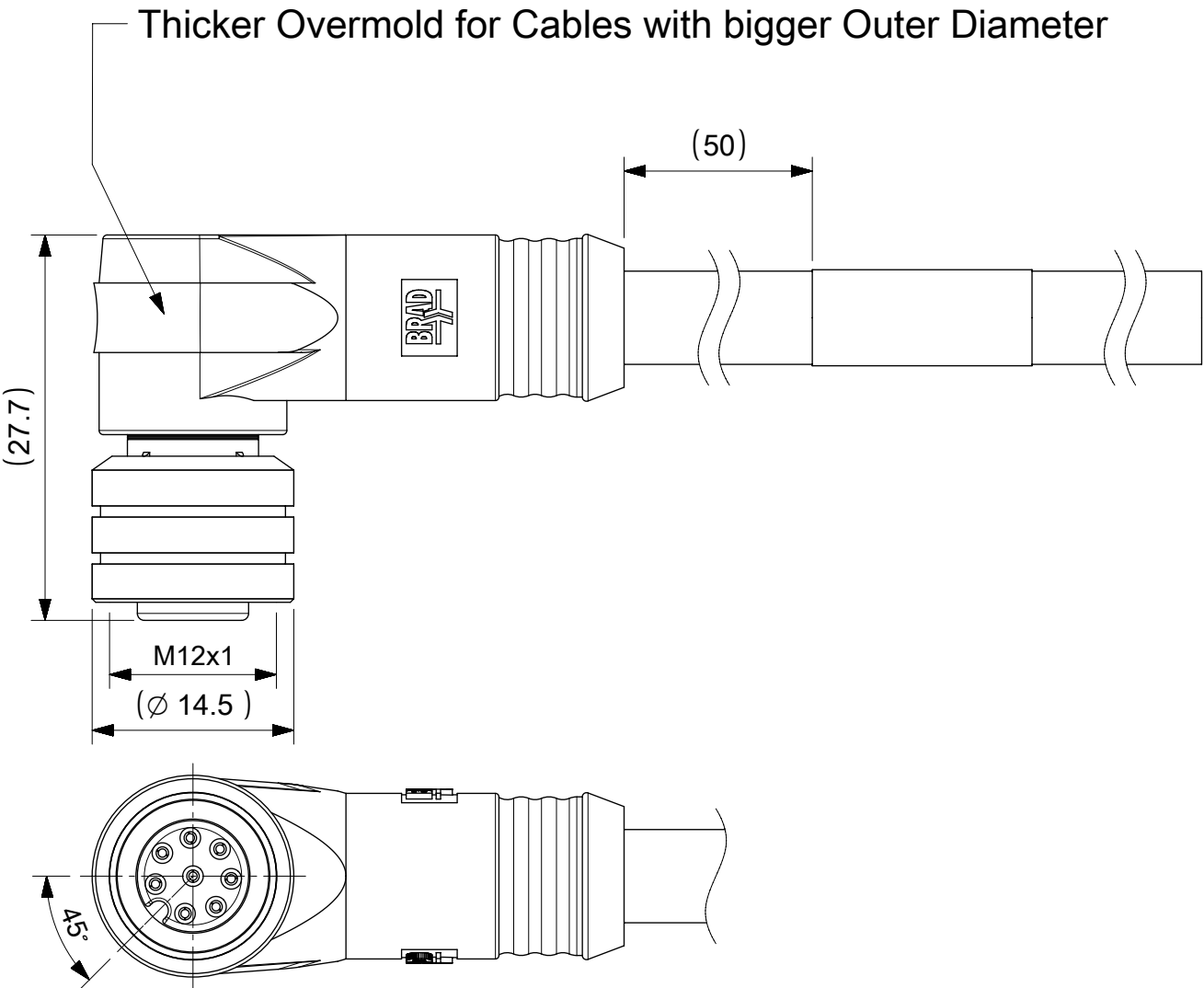
SHEET NUMBER

1 OF 2

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 / +85°C



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	5	GREY
						6	PINK
						7	BLUE
						8	RED
SHIELD CONNECTED TO THE COUPLING NUT							
CODING REQUIRED TO IEC 61076-2-101							

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

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

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
= 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0		2017/04/29		2017/05/04		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex®					
AKONDRACIUK		MIWASIECZKO		ANGULAR TOL ± 1.0 °		MM		2:1									
				4 PLACES ±		AKONDRACIUK		2017/04/29		CSE M12 XP AC FE RA XM SE SH							
				3 PLACES ±		CHK'D BY		DATE									
				2 PLACES ± 0.05		APPR BY		DATE		PRODUCT CUSTOMER DRAWING							
				1 PLACE ± 0.1		MIWASIECZKO		2017/05/04									
				0 PLACES ± 0.2		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3				120069		SEE SHEET 3		GENERAL MARKET			
		A		REV						DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
										1200698017		PSD		000		1 OF 3	

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

8 0 X S 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:
S01=Plug Shield Female
90° Angled

Cable type: See Table

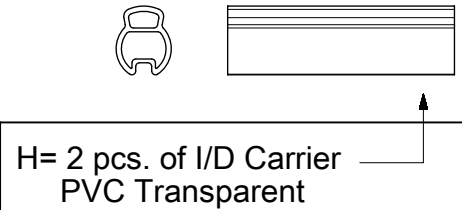
Units:
M=Meter
C=Centimeter

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

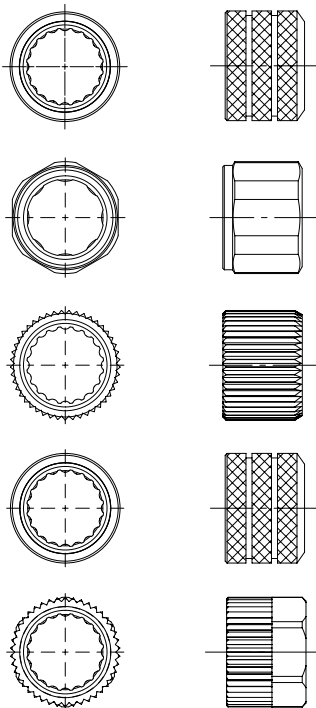
OPTIONS

Overmold color:
Blank (Standard)=Yellow TPU
Blank=Yellow TPU for cables S20,S26
Blank=Black TPU for cables P19,P20
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

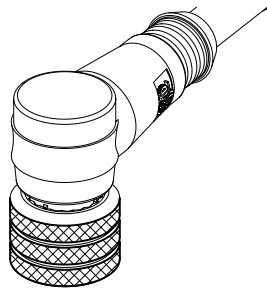


COUPLING NUTS



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

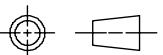
CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
P19	8	0.25mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	2 000 000 cycles, 15xO.D.	YES
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES



SCALE 1:1

CABLE LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																					
QUALITY SYMBOLS		EC NO: 116393 DRWN: AKONDRACIUK CHK'D: MIWASIECZKO APPR: MIWASIECZKO	2017/04/29 2017/05/04	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		molex® CSE M12 XP AC FE RA XM SE SH PRODUCT CUSTOMER DRAWING											
 = 0	 = 0					 = 0	 = 0	 = 0	 = 0						 = 0	 = 0	MM		1:1		
DRWN BY								DATE													
AKONDRACIUK								2017/04/29													
				4 PLACES		±		CHK'D BY								DATE					
				3 PLACES		±		APPR BY								DATE					
				2 PLACES		± 0.05		MIWASIECZKO								2017/05/04					
				1 PLACE		± 0.1		DRAWING SIZE								THIRD ANGLE PROJECTION					
				0 PLACES		± 0.2		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3				SERIES			MATERIAL NUMBER		CUSTOMER		
				A		REV								120069			SEE SHEET 3		GENERAL MARKET		
												DOCUMENT NUMBER			DOC TYPE		DOC PART		SHEET NUMBER		
												1200698017			PSD		000		2 OF 3		

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