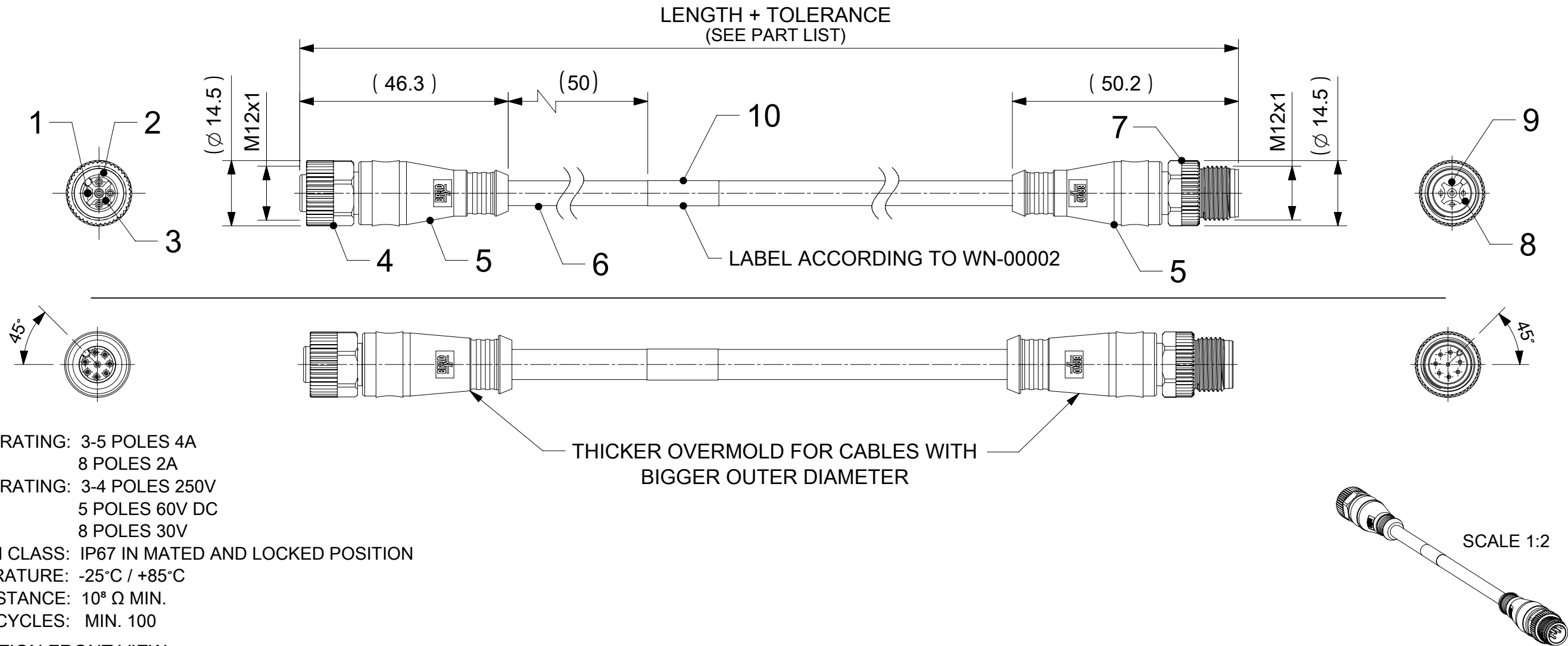


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:
CONTACT CURRENT RATING: 3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING: 3-4 POLES 250V
5 POLES 60V DC
8 POLES 30V
PROTECTION CLASS: IP67 IN MATED AND LOCKED POSITION
TEMPERATURE: -25°C / +85°C
INSULATION RESISTANCE: 10⁸ Ω MIN.
MATING CYCLES: MIN. 100

CONTACT POSITION FRONT VIEW:

CABLE	3 POLES		4 POLES		5 POLES		5 POLES		8 POLES	
	B30, B55		B30, B33, B36, B55		B30, B33, B36, B55		B42		B41, B49	
FEMALE										
MALE										
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	---	2	WHITE	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	---	5	---	5	GREY	5	GREEN/ YELLOW	5	GREY
							5		6	PINK
									7	BLUE
									8	RED

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS P1 RELEASE DATE 2024/07/02 09:17:54

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

10	1	LABEL OR PRINTING	VINYL / ---	---
9	3 / 4 / 5	CONTACT M12 MALE	COPPER	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	---
7	1	COUPLING NUT MALE	SEE SHEET 2	SEE SHEET 2
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT FEMALE	SEE SHEET 2	SEE SHEET 2
3	1	INSERT FEMALE BLACK	PUR	---
2	1	O-RING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE GOLD OVER NICKEL
	8		BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.		molex					
mm		1:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR WSOR MA STR XM DE							
ANGULAR TOL ± 1.0°											
4 PLACES		±		EC NO: 789428		PRODUCT CUSTOMER DRAWING					
3 PLACES		±		DRWN: AKABADI 2023/03/08							
2 PLACES		± 0.05		CHK'D: RSILLER 2024/07/02		DOCUMENT NUMBER 1200668993					
1 PLACE		± 0.3		APPR: RSILLER 2024/07/02						DOC TYPE PSD	
0 PLACES		± 0.5		INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29		MATERIAL NUMBER SEE SHEET 3 & 4		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 4	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS											
THIRD ANGLE PROJECTION 				DRAWING A3-SIZE		SERIES 120066					

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

88X030XXXXXX

88=M12x1
Double ended

Poles:
3=3 Poles
4=4 Poles
5=5 Poles
8=8 Poles

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter
T=10x Meter

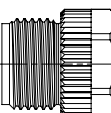
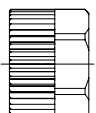
Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

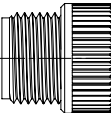
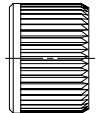
Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow / R=Red

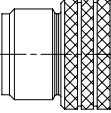
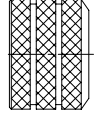
Coupling Nut:
Blank (Standard)=Knurled/Hex Brass, Ni Plated
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated

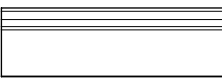
H= 2 pcs. of I/D Carrier PVC Transparent
(Cable B36 always with
2 pcs. I/D Carrier)

FEMALEMALE









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 PRODUCT SPECIFICATION	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	1552200001	SD-120209-001
B33	4 / 5	0.34mm²	TPU Gray								SD-120209-001
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-001
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

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

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

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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.

EC NO: 789428
DRWN: AKABADI
CHK'D: RSILLER
APPR: RSILLER

2023/03/08
2024/07/02
2024/07/02

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/07/22
2016/08/29

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668993

DOC TYPE

PSD

DOC PART

000

REVISION

B

SEE SHEET 3 & 4

GENERAL MARKET

2 OF 4

10	9	8	7	6	5	4	3	2	1																																																							
PART LIST																																																																
MOLEX PN			ENGINEERING No			L [mm]																																																										
3P CABLE B30			5P CABLE B30			5P CABLE B33																																																										
1200668889	883030B30M006	600	1200659666	885030B30M005	500	1200669257	885030B33M005	500																																																								
1200668890	883030B30M010	1000	1200656067	885030B30M005H	500	1200669901	885030B33M005A	500																																																								
1200668891	883030B30M020	2000	1200668991	885030B30M006	600	1200669258	885030B33M010	1000																																																								
1200668892	883030B30M030	3000	1200668992	885030B30M010	1000	1200669656	885030B33M010A	1000																																																								
1200668893	883030B30M050	5000	1200669242	885030B30M0107	1000	1200669247	885030B33M020	2000																																																								
1200668894	883030B30M100	10000	1200669145	885030B30M015	1500	1200669657	885030B33M020A	2000																																																								
1200669718	883030B30M150	15000	1200668993	885030B30M020	2000	1200669253	885030B33M030	3000																																																								
1200669719	883030B30M200	20000	1200659667	885030B30M025	2500	1200669658	885030B33M030A	3000																																																								
1200669720	883030B30M250	25000	1200668994	885030B30M030	3000	1200669254	885030B33M050	5000																																																								
4P CABLE B30			1200668994	885030B30M030	3000	1200669659	885030B33M050A	5000																																																								
1200669157	884030B30M002	200	1200669482	885030B30M040	4000	1200669248	885030B33M100	10000																																																								
1200669923	884030B30M003	300	1200668995	885030B30M050	5000	1200669660	885030B33M100A	10000																																																								
1200669480	884030B30M005	500	1200669484	885030B30M060	6000	1200669661	885030B33M150A	15000																																																								
1200668817	884030B30M006	600	1200669485	885030B30M080	8000	1200669249	885030B33M200	20000																																																								
1200668818	884030B30M010	1000	1200668996	885030B30M100	10000	1200669662	885030B33M200A	20000																																																								
1200665456	884030B30M010R	1000	1200669486	885030B30M150	15000	1200669255	885030B33M300	30000																																																								
1200669521	884030B30M015	1500	1200669487	885030B30M180	18000	1200669902	885030B33M300A	30000																																																								
1200668819	884030B30M020	2000	1200669488	885030B30M200	20000	1200669903	885030B33M400A	40000																																																								
1200665457	884030B30M020R	2000	1200669489	885030B30M250	25000	1200669904	885030B33M500A	50000																																																								
1200669144	884030B30M025	2500	1200669483	885030B30M300	30000	4P CABLE B36																																																										
1200668820	884030B30M030	3000	4P CABLE B33			1200669524	884030B36M0057H	500																																																								
1200665458	884030B30M030R	3000	1200669876	884030B33M003A	300	1200669019	884030B36M0057Y	500																																																								
1200669158	884030B30M030R	3000	1200669250	884030B33M005	500	1200669562	884030B36M0067Y	600																																																								
1200669181	884030B30M040	4000	1200669575	884030B33M005A	500	1200669530	884030B36M0107H	1000																																																								
1200669181	884030B30M040	4000	1200669223	884030B33M010	1000	1200669530	884030B36M0107H	1000																																																								
1200665459	884030B30M040R	4000	1200669576	884030B33M010A	1000	1200669020	884030B36M0107Y	1000																																																								
1200668821	884030B30M050	5000	1200669714	884030B33M015A	1500	1200669531	884030B36M0157H	1500																																																								
1200665460	884030B30M050R	5000	1200669224	884030B33M020	2000	1200669021	884030B36M0157Y	1500																																																								
1200669182	884030B30M060	6000	1200669577	884030B33M020A	2000	1200669525	884030B36M0207H	2000																																																								
1200668863	884030B30M070	7000	1200669225	884030B33M030	3000	1200669022	884030B36M0207Y	2000																																																								
1200669481	884030B30M080	8000	1200669578	884030B33M030A	3000	1200669526	884030B36M0307H	3000																																																								
1200668822	884030B30M100	10000	1200669280	884030B33M040	4000	1200669023	884030B36M0307Y	3000																																																								
1200669504	884030B30M120	12000	1200669715	884030B33M040A	4000	1200669024	884030B36M0407Y	4000																																																								
1200669505	884030B30M140	14000	1200669226	884030B33M050	5000	1200669532	884030B36M0507H	5000																																																								
1200668913	884030B30M150	15000	1200669579	884030B33M050A	5000	1200668859	884030B36M0507Y	5000																																																								
1200669506	884030B30M160	16000	1200669716	884030B33M070A	7000	1200669025	884030B36M0607Y	6000																																																								
1200668914	884030B30M200	20000	1200669251	884030B33M100	10000																																																											
1200668915	884030B30M250	25000	1200669580	884030B33M100A	10000																																																											
1200668916	884030B30M300	30000	1200669619	884030B33M150A	15000																																																											
1200669513	884030B30M400	40000	1200669252	884030B33M200	20000																																																											
1200669512	884030B30M550	55000	1200669620	884030B33M200A	20000																																																											
			1200669877	884030B33M250A	25000																																																											
			1200669256	884030B33M300	30000																																																											
			1200669874	884030B33M300A	30000																																																											
			1200669875	884030B33M700A	70000																																																											
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION <table><tr><td>DIMENSION UNITS</td><td>SCALE</td><td rowspan="10">CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.</td><td colspan="4"> molex CSE M12 XP AC FE STR WSOR MA STR XM DE </td></tr><tr><td colspan="6">GENERAL TOLERANCES (UNLESS SPECIFIED)</td></tr><tr><td colspan="6">ANGULAR TOL ± 1.0 °</td></tr><tr><td>4 PLACES</td><td>±</td><td colspan="3" rowspan="3">EC NO: 789428 DRWN: AKABADI 2023/03/08 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02</td></tr><tr><td>3 PLACES</td><td>±</td></tr><tr><td>2 PLACES</td><td>± 0.05</td></tr><tr><td>1 PLACE</td><td>± 0.3</td><td colspan="3" rowspan="3">INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29</td></tr><tr><td>0 PLACES</td><td>± 0.5</td></tr><tr><td colspan="6">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td></tr><tr><td colspan="3"></td><td>THIRD ANGLE PROJECTION</td><td>DRAWING</td><td>SERIES</td></tr></table> <table><tr><td>MATERIAL NUMBER</td><td>CUSTOMER</td><td colspan="2">SHEET NUMBER</td></tr><tr><td>SEE SHEET 3 & 4</td><td>GENERAL MARKET</td><td colspan="2">3 OF 4</td></tr></table>										DIMENSION UNITS	SCALE	CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.	molex CSE M12 XP AC FE STR WSOR MA STR XM DE				GENERAL TOLERANCES (UNLESS SPECIFIED)						ANGULAR TOL ± 1.0 °						4 PLACES	±	EC NO: 789428 DRWN: AKABADI 2023/03/08 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02			3 PLACES	±	2 PLACES	± 0.05	1 PLACE	± 0.3	INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29			0 PLACES	± 0.5	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		SEE SHEET 3 & 4	GENERAL MARKET	3 OF 4	
DIMENSION UNITS	SCALE	CURRENT REV DESC: CHANGED DIMENSIONING STYLE OF OVERALL LENGTH TO "END TO END". ADDED B49 CABLE P/N'S & NOTES. SORTED PART LIST USING CABLE TYPES ON SHEET 3&4.	molex CSE M12 XP AC FE STR WSOR MA STR XM DE																																																													
GENERAL TOLERANCES (UNLESS SPECIFIED)																																																																
ANGULAR TOL ± 1.0 °																																																																
4 PLACES	±		EC NO: 789428 DRWN: AKABADI 2023/03/08 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02																																																													
3 PLACES	±																																																															
2 PLACES	± 0.05																																																															
1 PLACE	± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29																																																													
0 PLACES	± 0.5																																																															
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																																																																
			THIRD ANGLE PROJECTION	DRAWING	SERIES																																																											
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER																																																														
SEE SHEET 3 & 4	GENERAL MARKET	3 OF 4																																																														
DOCUMENT STATUS	P1	RELEASE DATE	2024/07/02	09:17:54																																																												
10	9	8	7	6	5	4	3	2	1																																																							

