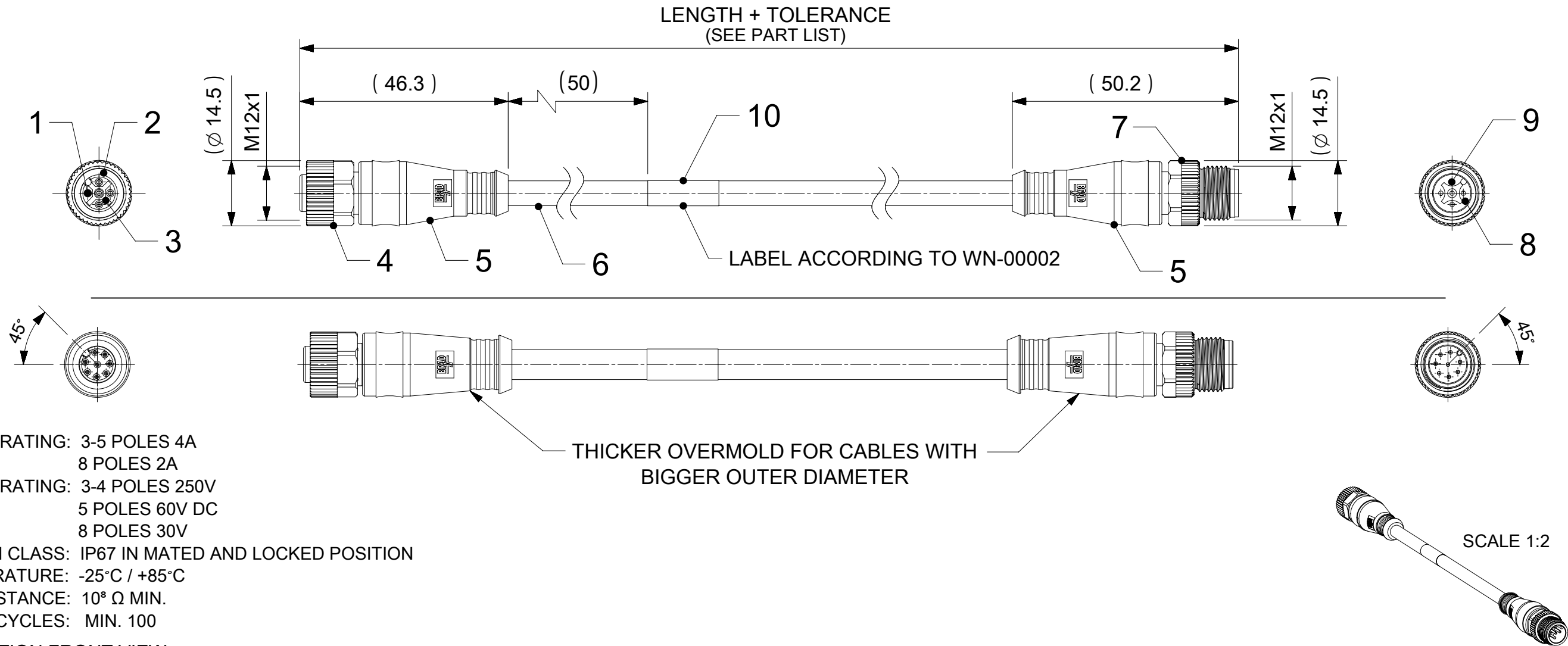


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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.	
mm		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		THIRD ANGLE PROJECTION	DRAWING	SERIES
			A3-SIZE	120066
			MATERIAL NUMBER	CUSTOMER
			SEE SHEET 3 & 4	GENERAL MARKET
			DOCUMENT NUMBER	DOC TYPE DOC PART REVISION
			1200668993	PSD 000 B
			EC NO: 789428	2023/03/08
			DRWN: AKABADI	2024/07/02
			CHK'D: RSILLER	2024/07/02
			APPR: RSILLER	2024/07/02
			INITIAL REVISION:	
			DRWN: JMARSZALEK	2016/07/22
			APPR: RSILLER	2016/08/29

molex

CSE M12 XP AC FE STR WSOR MA STR XM DE

PRODUCT CUSTOMER DRAWING

1200668993

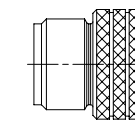
PSD 000 B

SHEET NUMBER

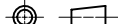
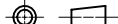
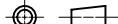
1 OF 4

A

F



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 SPECIFICATION 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-120209-00
B33	4 / 5	0.34mm²	TPU Gray								SD-120209-00
B36	4 / 5	0.34mm²	TPU Orange								SD-120209-00
B41	8	0.25mm²	TPU Black								SD-120209-00
B42	5	0.34mm²	TPU Black								SD-120209-00
B49	8	0.25mm²	TPU Orange								SD-120209-00
B55	3 / 4 / 5	0.34mm²	TPU Yellow								n/a

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)									
ANGULAR TOL		± 1.0 °							
4 PLACES		±					CSE M12 XP AC FE STR WSOR MA STR XM DE		
3 PLACES		±							
2 PLACES		± 0.05		PRODUCT CUSTOMER DRAWING					
1 PLACE		± 0.3							
0 PLACES		± 0.5		DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
DRAWING WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066		1200668993	
								PSD	
								000	
DRAWING WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066		SHEET NUMBER	
								2 OF 4	
DRAWING WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 		DRAWING A3-SIZE		SERIES 120066		SHEET NUMBER 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											
1200665459	884030B30M040R	4000	1200669223	884030B33M010	1000	1200669020	884030B36M0107Y	1000											
1200668821	884030B30M050	5000	1200669576	884030B33M010A	1000	1200669531	884030B36M0157H	1500											
1200665460	884030B30M050R	5000	1200669714	884030B33M015A	1500	1200669021	884030B36M0157Y	1500											
1200669182	884030B30M060	6000	1200669224	884030B33M020	2000	1200669525	884030B36M0207H	2000											
1200668863	884030B30M070	7000	1200669577	884030B33M020A	2000	1200669022	884030B36M0207Y	2000											
1200669481	884030B30M080	8000	1200669225	884030B33M030	3000	1200669526	884030B36M0307H	3000											
1200668822	884030B30M100	10000	1200669578	884030B33M030A	3000	1200669023	884030B36M0307Y	3000											
1200669504	884030B30M120	12000	1200669280	884030B33M040	4000	1200669024	884030B36M0407Y	4000											
1200669505	884030B30M140	14000	1200669715	884030B33M040A	4000	1200669532	884030B36M0507H	5000											
1200668913	884030B30M150	15000	1200669226	884030B33M050	5000	1200669532	884030B36M0507H	5000											
1200669506	884030B30M160	16000	1200669579	884030B33M050A	5000	1200668859	884030B36M0507Y	5000											
1200668914	884030B30M200	20000	1200669716	884030B33M070A	7000	1200669025	884030B36M0607Y	6000											
1200668915	884030B30M250	25000	1200669251	884030B33M100	10000														
1200668916	884030B30M300	30000	1200669580	884030B33M100A	10000														
1200669513	884030B30M400	40000	1200669619	884030B33M150A	15000														
1200669512	884030B30M550	55000	1200669252	884030B33M200	20000														
			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																			
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											
mm		1:1																	
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 789428 DRWN: AKABADI 2023/03/08 CHK'D: RSILLER 2024/07/02 APPR: RSILLER 2024/07/02				PRODUCT CUSTOMER DRAWING											
ANGULAR TOL ± 1.0 °																			
4 PLACES		±						INITIAL REVISION: DRWN: JMARSZALEK 2016/07/22 APPR: RSILLER 2016/08/29				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
3 PLACES		±		1200668993		PSD						000		B					
2 PLACES		± 0.05																	
1 PLACE		± 0.3																	
0 PLACES		± 0.5																	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
						A3-SIZE		120066		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	

	10	9	8	7	6	5	4	3	2	1												
F	PART LIST										F											
E	MOLEX PNENGINEERING NoL [mm]			MOLEX PNENGINEERING NoL [mm]								E										
	8P CABLE B41			4P CABLE B55																		
	1200668895	888030B41M006	600	1200669734	884030B55M005Y	500																
	1200668896	888030B41M010	1000	1200669618	884030B55M010Y	1000																
	1200665461	888030B41M010R	1000	1200669263	884030B55M020Y	2000																
	1200668897	888030B41M020	2000	1200669264	884030B55M030Y	3000																
	1200665462	888030B41M020R	2000	1200669265	884030B55M040Y	4000																
	1200668898	888030B41M030	3000	1200669266	884030B55M050Y	5000																
	1200665463	888030B41M030R	3000	1200669267	884030B55M060Y	6000																
	1200665464	888030B41M040R	4000	1200669418	884030B55M070Y	7000																
D	1200668899	888030B41M050	5000	1200657251	884030B55M080Y	8000						D										
	1200665465	888030B41M050R	5000	1200657252	884030B55M090Y	9000																
	1200669177	888030B41M090	9000	1200669268	884030B55M100Y	10000																
	1200668900	888030B41M100	10000	1200669269	884030B55M120Y	12000																
	1200669567	888030B41M150	15000	1200669270	884030B55M150Y	15000																
	1200669568	888030B41M200	20000	1200657253	884030B55M160Y	16000																
	5P CABLE B42			1200669271	884030B55M200Y	20000																
	1200668823	885030B42M006	600	1200669742	884030B55M250Y	25000																
	1200668824	885030B42M010	1000	1200669743	884030B55M300Y	30000																
	1200668825	885030B42M020	2000	5P CABLE B55																		
C	1200668826	885030B42M030	3000	1200669663	885030B55M010Y	1000						C										
	1200668827	885030B42M050	5000	1200669664	885030B55M020Y	2000																
	1200668828	885030B42M100	10000	1200669665	885030B55M030Y	3000																
	1200659548	885030B42M150	15000	1200669666	885030B55M050Y	5000																
	1200659549	885030B42M200	20000	1200669667	885030B55M100Y	10000																
	8P CABLE B49			1200669668	885030B55M150Y	15000																
	1200669112	888030B49M038Y	3800	1200669669	885030B55M200Y	20000																
											B											
A												A										
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						CSE M12 XP AC FE STR WSOR MA STR XM DE														
GENERAL TOLERANCES (UNLESS SPECIFIED)								PRODUCT CUSTOMER DRAWING														
ANGULAR TOL ± 1.0 °																						
4 PLACES ±				EC NO: 789428																		
3 PLACES ±				DRWN: AKABADI2023/03/08																		
2 PLACES ± 0.05				CHK'D: RSILLER2024/07/02																		
1 PLACE ± 0.3				APPR: RSILLER2024/07/02																		
0 PLACES ± 0.5				INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION										
				DRWN: JMARSZALEK2016/07/22				1200668993		PSD	000	B										
				APPR: RSILLER2016/08/29																		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER										
						A3-SIZE	120066	SEE SHEET 3 & 4		GENERAL MARKET		4 OF 4										
DOCUMENT STATUS				P1	RELEASE DATE	2024/07/02	09:17:54															
	10	9	8	7	6	5	4	3	2	1												