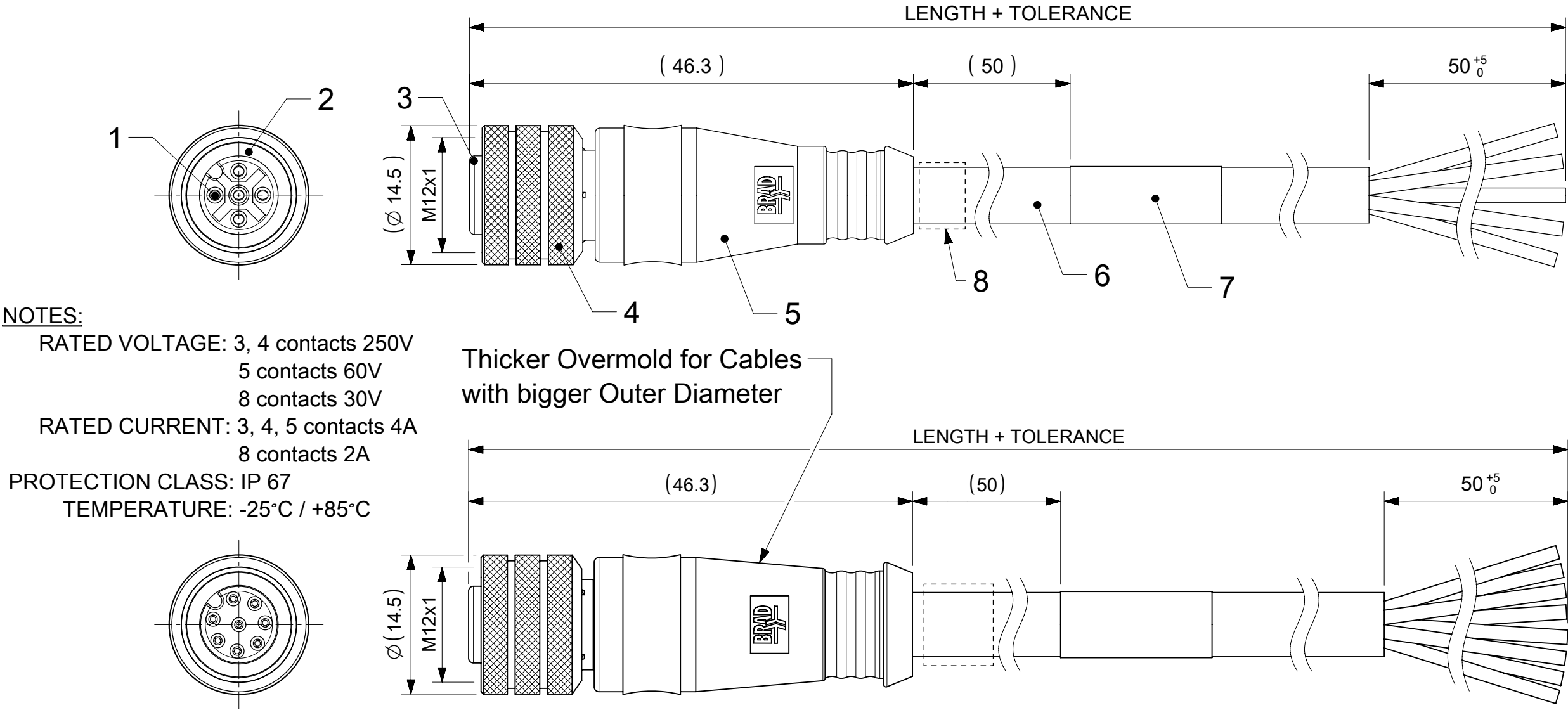


FEMALE PLUG M12 STRAIGHT



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
CODING REQUIRED TO IEC 61076-2-101							

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

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

FUNCTIONAL SYMBOLS

0

mm

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

DIVISIONAL SYMBOLS

0

mm

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

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

EC NO: 823996
DRWN: ANIKES1
CHK'D: GGA
APPR: GGA
2025/05/30
2025/05/30
2025/05/30

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER
2016/01/11
2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

1200651978

PSD

000

A13

1 OF 4

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

OPTIONS

8 0 X 0 0 0 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:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter

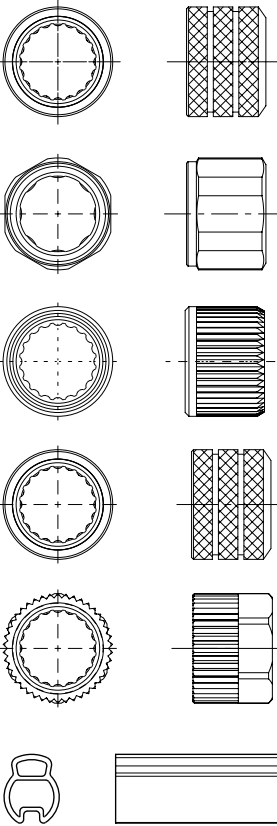
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black
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
9=Knurled / Hexagonal Brass Ni Plated

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS

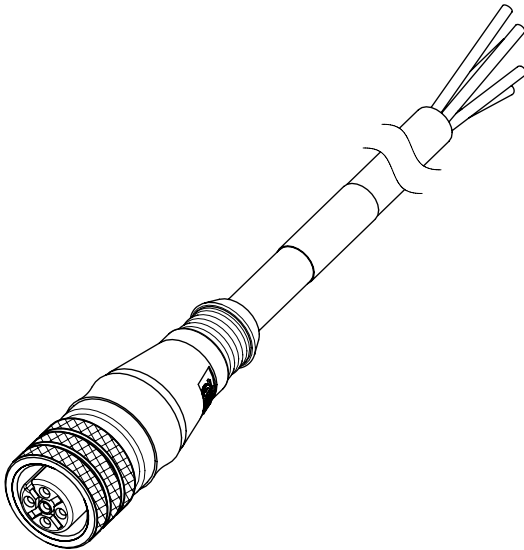


CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 / 4 / 5 / 8	0.25mm ²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm ²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H08	3 / 4 / 5 / 8	0.25mm ²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H09	3 / 4 / 5	0.34mm ²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
P02	3 / 4 / 5 / 8	0.25mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-

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



SCALE 1:1

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: RETRACTED P/N 1200658191 AS PER PCN#516775.			molex			
FA = 0	mm		1:1								
FE = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR XM SE UNSH						
FF = 0	ANGULAR TOL ± 1.0 °										
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 823996			PRODUCT CUSTOMER DRAWING			
	3 PLACES		±		DRWN: ANIKES1 2025/05/30						
	2 PLACES		± 0.05		CHK'D: GGA 2025/05/30						
	1 PLACE		± 0.3		APPR: GGA 2025/05/30						
	0 PLACES		± 0.5		INITIAL REVISION:						
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: JMARSZALEK 2016/01/11			DOCUMENT NUMBER			
APPR: RSILLER 2016/04/08					1200651978						
				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOC TYPE	
						A3-SIZE		120065		DOC PART	
										REVISION	
										A13	
								MATERIAL NUMBER		SHEET NUMBER	
								SEE SHEET 3-4		GENERAL MARKET	
										2 OF 4	

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/30	10:55:41
-----------------	----	--------------	------------	----------

A

Part No.	Engineering No.	Cable Length
1200658551	808000E02M1001	10m
1200658812	808000E02M150	15m
1200659256	808000E02M200	20m
1200659052	808000E02M2001	20m
1200658984	808000E02M2501	25m
1200659200	808000E02M250H	25m
1200659613	808000E02M300	30m
1200659053	808000E02M3001	30m
1200659187	808000E02M4001	40m
1200659387	808000E02M500	50m
8P H08 CABLE		
1200658642	808000H08M010	1m
1200658643	808000H08M015	1.5m
1200658644	808000H08M020	2m
1200658813	808000H08M025	2.5m
1200658645	808000H08M030	3m
1200658646	808000H08M040	4m
1200658244	808000H08M050	5m
1200658264	808000H08M100	10m
1200658930	808000H08M150	15m
1200658899	808000H08M250	25m
3P H09 CABLE		
1200659584	803000H09M003	0.3m
1200658637	803000H09M015	1.5m
1200658177	803000H09M100	10m
1200658636	803000H09M010	1m
1200658175	803000H09M020	2m
1200658638	803000H09M030	3m
1200658639	803000H09M040	4m
1200658176	803000H09M050	5m
4P H09 CABLE		
1200658891	804000H09M003	0.3m
1200658640	804000H09M010	1m
1200657395	804000H09M012	1.2m
1200658550	804000H09M015	1.5m
1200658178	804000H09M020	2m

FORMAT: master to prod-A3 REVISION: J1 DATE: 2021/05/09	10	9	8
---	----	---	---

10	9	8	7	6	5	4	3	2	1
PART LIST									
F	Part No.	Engineering No.	Cable Length	Part No.	Engineering No.	Cable Length	Part No.	Engineering No.	Cable Length
	1200658641	804000H09M040	4m	1200651795	808000P02M070	7m	1200659474	804000P03M250	25m
	1200658179	804000H09M050	5m	1200650955	808000P02M080	8m	1200659341	804000P03M2501	25m
	1200064434	804000H09M050G	5m	1200650956	808000P02M0801	8m	1200659475	804000P03M300	30m
	1200658008	804000H09M050H	5m	1200650957	808000P02M100	10m	1200657129	804000P03M400	40m
	1200658190	804000H09M100	10m	1200659553	808000P02M100H	10m	1200657130	804000P03M500	50m
	1200658191	804000H09M150	15m	1200659397	808000P02M100Y	10m	5P P03 CABLE		
	1200658009	804000H09M100H	10m	1200658021	808000P02M150	15m	1200060646	805000P03M003	0.3m
	1200658880	804000H09M200	20m	1200659554	808000P02M150H	15m	1200659282	805000P03M005	0.5m
	1200065006	804000H09M250G	25m	1200651817	808000P02M200	20m	1200659283	805000P03M007	0.7m
E	5P H09 CABLE			1200659334	808000P02M200H	20m	1200658197	805000P03M010	1m
	1200658632	805000H09M010	1m	1200651818	808000P02M250	25m	1200060647	805000P03M020	2m
	1200658633	805000H09M015	1.5m	1200651820	808000P02M300	30m	1200065004	805000P03M0201	2m
	1200658172	805000H09M020	2m	1200656766	808000P02M350	35m	1200659326	805000P03M020H	2m
	1200658634	805000H09M030	3m	1200656767	808000P02M400	40m	1200062521	805000P03M030	3m
	1200658635	805000H09M040	4m	3P P03 CABLE			1200658020	805000P03M040	4m
	1200658173	805000H09M050	5m	1200061765	803000P03M002	0.2m	1200651792	805000P03M050	5m
	1200658174	805000H09M100	10m	1200062098	803000P03M006	0.6m	1200652154	805000P03M060	6m
	1200657306	805000H09M100H	10m	1200060152	803000P03M010	1m	1200060649	805000P03M100	10m
	1200658780	805000H09M200	20m	1200060004	803000P03M020	2m	1200658991	805000P03M100H	10m
D	1200659144	805000H09M300	30m	1200060153	803000P03M030	3m	1200061431	805000P03M150	15m
	1200657264	805000H09M500	50m	1200065012	803000P03M030G	3m	1200659329	805000P03M150H	15m
	4P P02 CABLE			1200064093	803000P03M032	3.2m	1200064292	805000P03M200	20m
	1200658609	804000P02M020	2m	1200658610	803000P03M040	4m	1200659330	805000P03M200H	20m
	1200658927	804000P02M050	5m	1200060005	803000P03M050	5m	1200659214	805000P03M300	30m
	8P P02 CABLE			1200651769	803000P03M050G	5m	1200659594	805000P03M300H	30m
	1200655073	808000P02M003	0.3m	1200063415	803000P03M0707	7m	1200659595	805000P03M350H	35m
	1200658525	808000P02C350	0.35m	1200060006	803000P03M100	10m			
	1200651794	808000P02M010	1m	1200063673	803000P03M1001	10m			
	1200659399	808000P02M015	1.5m	1200062811	803000P03M100H	10m			
C	1200650951	808000P02M020	2m	1200060157	803000P03M150	15m			
	1200658022	808000P02M030	3m	1200060158	803000P03M200	20m			
	1200650952	808000P02M040	4m	1200062772	803000P03M250	25m			
	1200650953	808000P02M050	5m						
	1200659552	808000P02M050H	5m						
	1200659092	808000P02M050Y	5m						
	1200650954	808000P02M060	6m						
B									
A									
NOTES: ✱ - Part No. with Yellow PVC overmolding ✱✱ - Part No. with Black PVC overmolding									
DOCUMENT STATUS P1 RELEASE DATE 2025/05/30 10:55:41									
10	9	8	7	6	5	4	3	2	1

FUNCTIONAL SYMBOLS ▽A= 0 ▽E= 0 ▽F= 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					
	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	DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	A3-SIZE	120065	1200651978		PSD	000	A13

EC NO: 823996
DRWN: ANIKES1
CHK'D: GGA
APPR: GGA

2025/05/30
2025/05/30
2025/05/30

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/11
2016/04/08

CURRENT REV DESC: RETRACTED P/N 1200658191 AS PER PCN#516775.

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

SEE SHEET 3-4

GENERAL MARKET

4 OF 4