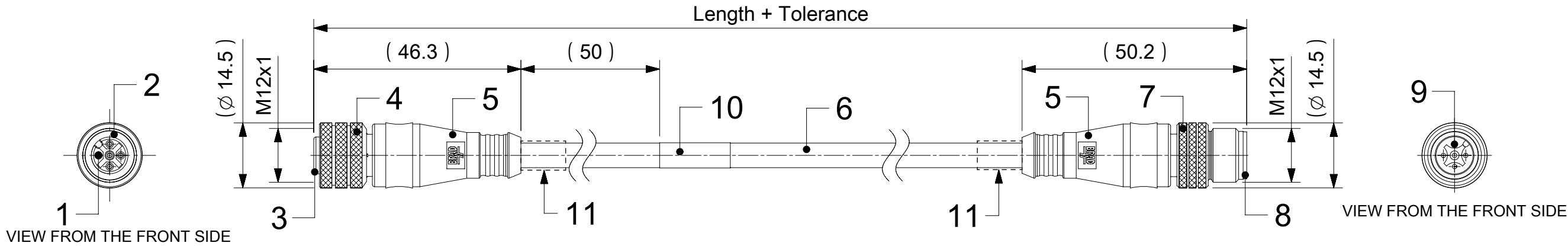


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

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	
FEMALE								
MALE								
CONNECTIONS	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	GREY	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE SHEET 2	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	-
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	-
7	1	COUPLING NUT MALE	-	-
6	-	CABLE	SEE SHEET 2	-
5	-	OVERMOULDING BLACK	TPU	-
4	1	COUPLING NUT FEMALE	-	-
3	1	INSERT FEMALE BLACK	PUR	-
2	1	O-RING RED	FPM	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	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: NEW P/N ADDED			molex						
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE M12 XP AC FE STR MA STR XM DE						
ANGULAR TOL ± 1.0 °													
EC NO: 758299													
4 PLACES		±		DRWN: RSCHIEBER			2023/07/31						
3 PLACES		±		CHK'D: RSILLER			2023/08/01						
2 PLACES		± 0.05		APPR: RSILLER			2023/08/01						
1 PLACE		± 0.3		INITIAL REVISION:			PRODUCT CUSTOMER DRAWING						
0 PLACES		± 0.5		DRWN: JMARSZALEK			DOCUMENT NUMBER						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION			DRAWING			SERIES					
											1200668084		
											PSD		
								DOC TYPE					
								DOC PART					
								REVISION					
								A16					
								SHEET NUMBER					
								1 OF 4					

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

OPTIONS

88X030XXX

88=Micro-Change
M12x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

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

Cable type: See Table

Units:
M=Meter
C=Centimeter

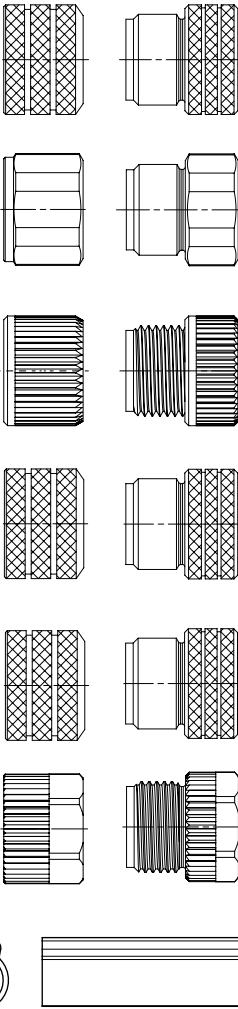
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

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

COUPLING NUTS
FEMALE MALE



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	0.25mm²	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	0.34mm²	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	0.25mm²	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	0.34mm²	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	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-

CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF FINISHED LENGTH

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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: NEW P/N ADDED

EC NO: 758299
DRWN: RSCHIEBER
CHK'D: RSILLER
APPR: RSILLER

2023/07/31
2023/08/01
2023/08/01

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/09/16
2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

moLEX

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668084

DOC TYPE

PSD

DOC PART

000

REVISION

A16

SEE SHEET 3-4

GENERAL MARKET

2 OF 4

10	9	8	7	6	5	4	3	2	1					
PART LIST														
No.	MOLEX PN	Engineering No.	Length	No.	MOLEX PN	Engineering No.	Length	No.	MOLEX PN	Engineering No.	Length			
1	1200060049	884030E03M050	5m	36	1200071114	883030P03M020H	2m	106	1200668352	888030P02M250	25m			
2	1200060050	884030P03M015	1.5m	37	1200071122	883030P03M030H	3m	107	1200668370	883030E03M040	4m			
3	1200060051	884030P03M030	3m	38	1200071123	883030P03M010H	1m	108	1200668373	883030H09M006	0.6m			
4	1200070081	883030E03M006	0.6m	39	1200071131	883030P03M0201	2m	109	1200668374	883030H09M010	1m			
5	1200070083	883030E03M010	1m	40	1200071199	884030E03M200	20m	110	1200668375	883030H09M030	3m			
6	1200070085	883030E03M020	2m	41	1200071273	883030P03M100H	10m	111	1200668376	883030H09M040	4m			
7	1200070086	883030E03M0205	2m	42	1200071284	885030P03M100	10m	112	1200668377	883030H09M100	10m			
8	1200070088	883030E03M030	3m	43	1200071288	883030P03M060	6m	113	1200668378	884030H09M006	0.6m			
9	1200070091	883030E03M050	5m	44	1200071408	885030P03M030	3m	114	1200668379	884030H09M010	1m			
10	1200070092	883030E03M0505	5m	45	1200071500	885030E03M005	0.5m	115	1200668380	884030H09M040	4m			
11	1200070093	883030E03M100	10m	46	1200071583	885030E03M080	8m	116	1200668381	884030H09M100	10m			
12	1200070102	883030P03M003	0.3m	47	1200071594	884030E03M015	1.5m	117	1200668399	888030E02M003	0.3m			
13	1200070104	883030P03M006	0.6m	48	1200071596	884030E03M060	6m	118	1200668486	884030H09M023	2.3m			
14	1200070105	883030P03M100	10m	49	1200071703	884030E03M0205	2m	119	1200668487	885030E03M200	20m			
15	1200070470	884030E03M003	0.3m	50	1200071707	884030E03M0505	5m	120	1200668491	888030H08M010	1m			
16	1200070472	884030E03M006	0.6m	51	1200071715	884030E03M150	15m	121	1200668497	885030H09M010	1m			
17	1200070473	884030E03M010	1m	52	1200071774	884030E03M020H	2m	122	1200668500	885030H09M020	2m			
18	1200070474	884030E03M020	2m	53	1200071793	884030E03M1501✱	15m	123	1200668501	885030H09M050	5m			
19	1200070475	884030E03M030	3m	54	1200071881	884030E03M1005	10m	124	1200668502	885030H09M092	9.2m			
20	1200070476	884030E03M100	10m	55	1200071947	885030P03M007	0.7m	125	1200668509	885030H09M006	0.6m			
21	1200070486	884030P03M003	0.3m	56	1200071948	885030E03M040	4m	126	1200668510	885030H09M030	3m			
22	1200070487	884030P03M006	0.6m	57	1200072010	884030P03M050H	5m	127	1200668511	885030H09M100	10m			
23	1200070488	884030P03M010	1m	58	1200072081	885030E03M035	3.5m	128	1200668521	885030E03M250	25m			
24	1200070489	884030P03M020	2m	59	1200072092	884030E03M040	4m	129	1200668528	885030E03M020H	2m			
25	1200070490	884030P03M050	5m	60	1200072104	883030P03M040	4m	130	1200668530	885030E03M010H	1m			
26	1200070586	885030E03M030	3m	61	1200072105	884030P03M200	20m	131	1200668544	888030P02M500	50m			
27	1200070596	885030P03M020	2m	62	1200072172	884030E03M050H	5m	132	1200668548	884030H09M006H	0.6m			
28	1200070906	885030E03M010	1m	63	1200072544	884030E03M120	12m	133	1200668549	884030H09M010H	1m			
29	1200070969	885030E03M050	5m	64	1200072649	884030P03M0105	1m	134	1200668550	884030H09M050H	5m			
30	1200070970	885030E03M020	2m	65	1200072650	884030P03M0505	5m	135	1200668602	885030P03M020G	2m			
31	1200071006	883030E03M020H	2m	66	1200072656	885030P03M120	12m	136	1200668609	885030E02M050	5m			
32	1200071029	884030P03M100	10m	67	1200072658	883030P03M120	12m	137	1200668646	883030P03M030HY	3m			
33	1200071047	883030P03M050H	5m	68	1200072697	885030E03M060	6m	138	1200668652	885030E03M070	7m			
34	1200071049	885030P03M050	5m	69	1200072744	884030E03M0501✱	5m	139	1200668656	885030E02M100	10m			
35	1200071053	883030P03M150	15m	70	1200072762	884030P03M0101	1m	140	1200668657	885030E02M020	2m			
NOTES:														
✱ - Part No. with Yellow PVC overmolding														
<table><tr><td>DOCUMENT STATUS</td><td>P1</td><td>RELEASE DATE</td><td>2023/08/01</td><td>14:04:33</td></tr></table>										DOCUMENT STATUS	P1	RELEASE DATE	2023/08/01	14:04:33
DOCUMENT STATUS	P1	RELEASE DATE	2023/08/01	14:04:33										
9	8	7	6	5	4	3	2	1						

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: NEW P/N ADDED				molex				
mm		1:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)												
ANGULAR TOL		± 1.0 °										
4 PLACES		±		EC NO: 758299 DRWN: RSCHIEBER 2023/07/31 CHK'D: RSILLER 2023/08/01 APPR: RSILLER 2023/08/01				PRODUCT CUSTOMER DRAWING				
3 PLACES		±										
2 PLACES		± 0.05										
1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES		± 0.5						1200668084		PSD	000	A16
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
						A3-SIZE	120066	SEE PART LIST		GENERAL MARKET		3 OF 4

PART LIST

No.	MOLEX PN	Engineering No.	Length
141	1200668661	884030E02M0031	✱0.3m
142	1200668662	883030E02M006	0.6m
143	1200668664	885030E02M010	1m
144	1200668672	884030E03M0051	✱0.5m
145	1200668674	885030E03M150	15m
146	1200668683	885030H09M150	15m
147	1200668684	885030H09M200	20m
148	1200668687	884030P03M005	0.5m
149	1200668689	884030H08M030	3m
150	1200668690	883030P03M020YH	2m
151	1200668691	883030P03M010YH	1m
152	1200668712	883030P03M100HY	10m
153	1200668713	883030P03M050HY	5m
154	1200668714	884030H09M0209	2m
155	1200668715	884030H09M003	0.3m
156	1200668718	884030E03M250	25m
157	1200668719	884030E03M300	30m
158	1200668720	884030P03M150	15m
159	1200668721	884030P03M250	25m
160	1200668722	884030P03M300	30m
161	1200668723	884030P03M350	35m
162	1200668724	884030P03M400	40m
163	1200668737	884030H09M055	5.5m
164	1200668754	884030P03M020H	2m
165	1200668765	885030P03M015	1.5m
166	1200668770	884030E03M350	35m
167	1200668771	884030E03M400	40m
168	1200668774	888030H08M100	10m
169	1200668775	885030P03M300	30m
170	1200668777	888030E02M020	2m
171	1200668778	888030E02M030	3m
172	1200668779	888030E02M050	5m
173	1200668780	888030E02M100	10m
174	1200668784	885030E03M300	30m
175	1200668785	885030E03M350	35m

No.	MOLEX PN	Engineering No.	Length
176	1200668786	884030E03M070	7m
177	1200668794	885030P03M006H	0.6m
178	1200668795	885030P03M010H	1m
179	1200668796	885030P03M030H	3m
180	1200668797	885030P03M050H	5m
181	1200668798	885030P03M100H	10m
182	1200668800	885030P03M200H	20m
183	1200668801	885030P03M300H	30m
184	1200668802	885030P03M350H	35m
185	1200668803	888030P02M010H	1m
186	1200668804	888030P02M020H	2m
187	1200668806	888030P02M050H	5m
188	1200668807	888030P02M100H	10m
189	1200668808	888030P02M150H	15m
190	1200668809	888030P02M200H	20m
191	1200668810	888030P02M350H	35m
192	1200668815	884030P03M0805	8m
193	1200668853	885030H09M040	4m
194	1200668854	885030H09M060	6m
195	1200668903	885030P03C130	0.13m
196	1200668972	885030E03M003	0.3m
197	1200668973	885030E03M025	2.5m
198	1200668980	885030E03M080H	8m
199	1200668981	885030E03M040H	4m
200	1200668982	885030E03M060H	6m
201	1200668985	885030E03M030H	3m
202	1200669111	885030P03M150H	15m
203	1200669117	888030H08M040	4m
204	1200669133	888030P02M3008	30m
205	1200669134	883030H09M015	1.5m
206	1200669135	883030H09M200	20m
207	1200669153	883030E03M0101	1m
208	1200669161	888030H08M150	15m
209	1200669212	888030H08M050	5m
210	1200669310	888030H08M005	0.5m

No.	MOLEX PN	Engineering No.	Length
211	1200669311	888030H08M008	0.8m
212	1200669312	888030H08M012	1.2m
213	1200669313	888030H08M015	1.5m
214	1200669314	888030H08C250	0.25m
215	1200669353	888030P02M130	13m
216	1200669423	884030E03M025	2.5m
217	1200669424	884030E03M035	3.5m
218	1200669437	888030H08M200	20m
219	1200669477	888030E02M300	30m
220	1200669478	888030E02M400	40m
221	1200669479	888030E02M500	50m
222	1200669499	883030E03M080	8m
223	1200669500	883030E03M120	12m
224	1200669501	883030E03M140	14m
225	1200669502	883030E03M160	16m
226	1200669503	883030E03M180	18m
227	1200669508	884030E03M080	8m
228	1200669509	884030E03M140	14m
229	1200669510	884030E03M160	16m
230	1200669511	883030E03M060	6m
231	1200669561	883030E02M050	5m
232	1200669350	883030H09M030H	3m
233	1200669609	883030E02M0201	2m
234	1200669717	884030P03M080	8m
235	1200669522	883030E03M200	20m
236	1200669523	883030E03M250	25m
237	1200669752	884030H09M015H	1.5m
238	1200669759	884030H09M020H	2.0m
239	1200669753	884030H09M025H	2.5m
240	1200669758	884030H09M030H	3.0m
241	1200669955	888030H08M300	30m
242			
243			
244			
245			

No.	MOLEX PN	Engineering No.	Length
246	1200669756	885030H09M015H	1.5m
247	1200669762	885030H09M020H	2.0m
248	1200669757	885030H09M025H	2.5m
249	1200669763	885030H09M030H	3.0m
250	1200669878	884030E03M002H	0.2m
251	1200669879	884030E03M004H	0.4m
252	1200669880	884030E03M009H	0.9m
253	1200669881	884030E03M013H	1.3m
254	1200669882	884030E03M016H	1.6m
255	1200669883	884030E03M180H	18m
256	1200669884	884030E03M800H	80m
257	1200669905	885030E03M085H	8.5m
258	1200669906	885030E03M090H	9m
259	1200669907	885030E03M110H	11m
260	1200669926	884030H09M065H	6.5m
261	1200669927	884030H09M070H	7.0m
262	1200669931	884030H09M075H	7.5m
263	1200669932	884030H09M080H	8.0m
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NOTES:
✱ - Part No. with Yellow PVC overmolding

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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

CURRENT REV DESC: NEW P/N ADDED

EC NO: 758299

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2023/07/31

2023/08/01

2023/08/01

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/09/16

2016/12/08

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

1200668084

PSD

000

A16

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

A3-SIZE

120066

SEE PART LIST

GENERAL MARKET

4 OF 4