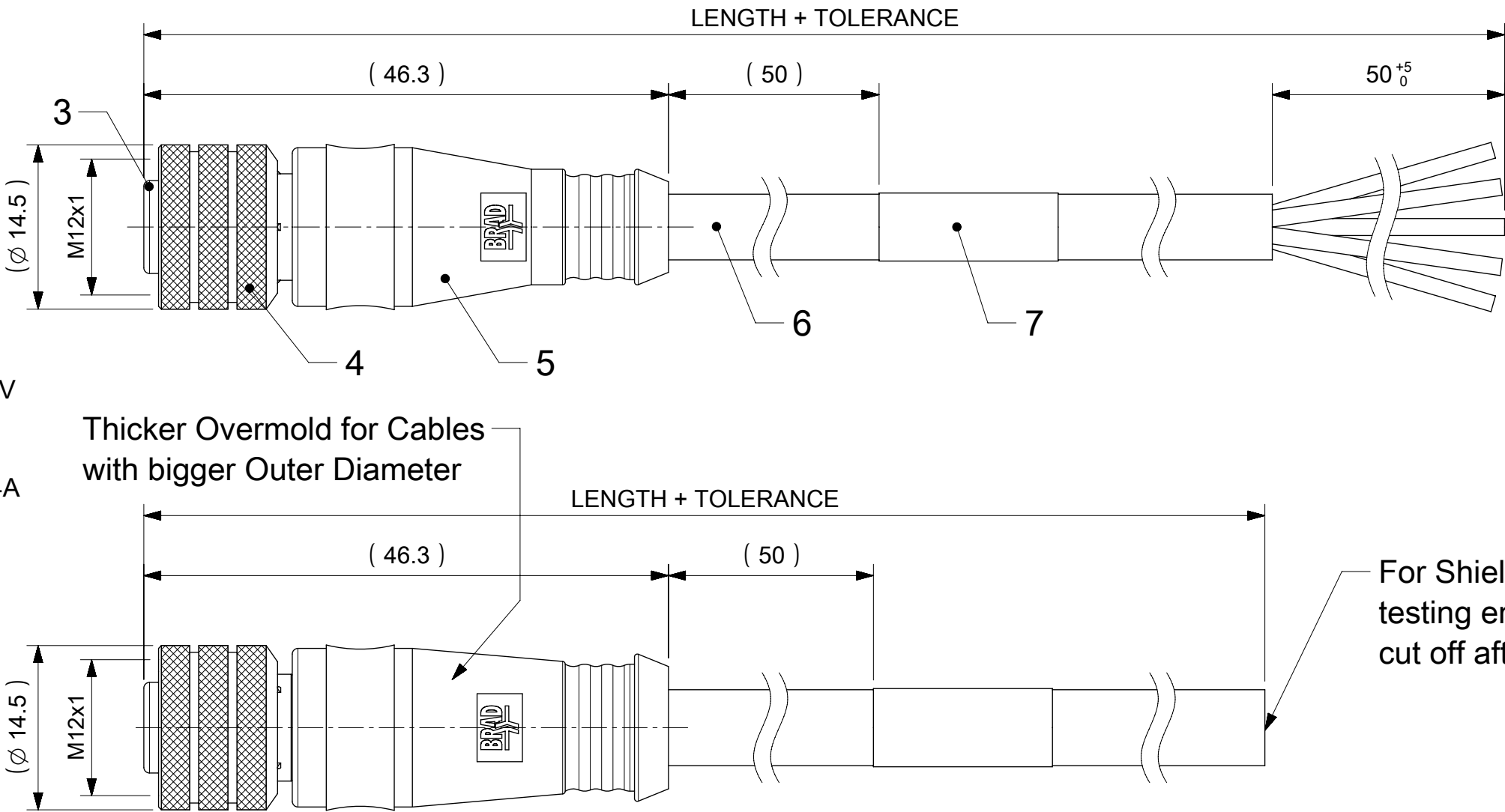


FEMALE PLUG M12 STRAIGHT

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

7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
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			
	2017/10/19	2017/10/20	2017/10/20	2017/10/20
F = 0 E = 0 P = 0 V = 0 C = 0 X = 0 B = 0 V = 0	EC NO: 123627 DRWN: BBRAUCH CHK'D: BBRAUCH	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	DIMENSION UNITS mm SCALE 2:1 DRWN BY JMARSZALEK DATE 2016/01/12 CHK'D BY DATE APPR BY JALEXANDER DATE 2016/04/08 DRAWING SIZE A3 THIRD ANGLE PROJECTION	molex® CSE M12 XP AC FE STR XM SE UNSH PRODUCT CUSTOMER DRAWING SERIES 120065 MATERIAL NUMBER SEE SHEET 3-4 CUSTOMER GENERAL MARKET DOCUMENT NUMBER 1200658605 DOC TYPE PSD DOC PART 000 SHEET NUMBER 1 OF 4

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

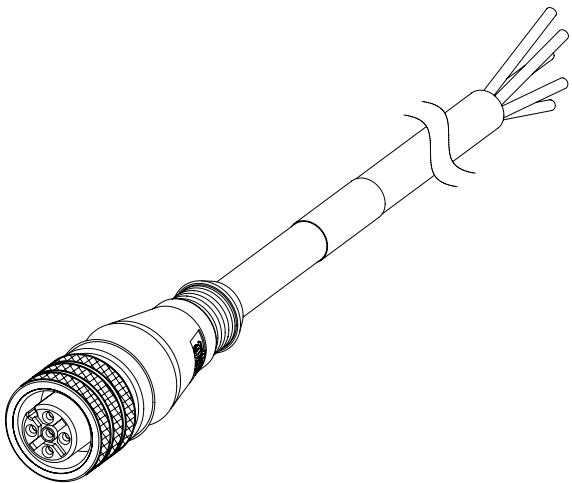


OPTIONS

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 C=Centimeter	Length Examples: 005=0.5 unit 010=1 unit 100=10 units		Overmold color: Blank (Standard) Blank=Yellow T Blank=Yellow T A=Grey / G=Bl	

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
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E63	5	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
H12	4	0.50mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-50°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000, Temp max 60°C	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
I02	3 / 4 / 8	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I04	4	0.50mm²	PVC CEI GREY	-	-	-25°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-	-
P12	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
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
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, 10xO.D.	-15°C to +105°C, 15xO.D.	-	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		2017/10/19 2017/10/20 EC NO: 123627 DRWN: BBRAUCH CHK'D: APPR: BBRAUCH		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° <table><tr><td>4 PLACES</td><td>±</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></tr><tr><td>0 PLACES</td><td>± 0.5</td></tr></table> DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		4 PLACES	±	3 PLACES	±	2 PLACES	± 0.05	1 PLACE	± 0.3	0 PLACES	± 0.5	DIMENSION UNITS		SCALE		molex® CSE M12 XP AC FE STR XM SE UNSH				
4 PLACES	±																							
3 PLACES	±																							
2 PLACES	± 0.05																							
1 PLACE	± 0.3																							
0 PLACES	± 0.5																							
FA = 0	FC = 0					FE = 0	FV = 0	FA = 0	FC = 0	FE = 0	FV = 0	FA = 0	FC = 0	FE = 0	FV = 0	FA = 0	FC = 0	FE = 0	FV = 0					
mm		1:1		DRWN BY JMARZSALEK		DATE 2016/01/12		PRODUCT CUSTOMER DRAWING																
CHK'D BY		DATE		APPR BY JALEXANDER		DATE 2016/04/08							SERIES 120065		MATERIAL NUMBER SEE SHEET 3-4		CUSTOMER GENERAL MARKET							
DRAWING SIZE A3		THIRD ANGLE PROJECTION		DOCUMENT NUMBER 1200658605		DOC TYPE PSD		DOC PART 000		SHEET NUMBER 2 OF 4														

9				8				7				6				5				4				3				2				1			
PART LIST																																			
No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length				
1	1200060017	804000I03M050	5m	36	1200061955	804000I03M200A	20m	71	1200063684	804000S20M2001	✱ 20m	106	1200656200	808000S19M030	3m	2	1200060030	803000I03M050	5m	37	1200061956	804000I03M300A	30m	72	1200063819	804000E52K0011A	100m	107	1200656201	808000S19M050	5m				
3	1200060033	804000I03M100	10m	38	1200061957	804000I03M400A	40m	73	1200063824	805000I03M050G	5m	108	1200658015	805000E63M020A	2m	4	1200060035	804000P82M0507	5m	39	1200061970	804000I03M100A	10m	74	1200063859	804000S20M0501	✱ 5m	109	1200658043	803000S20M005	0.5m				
5	1200060036	804000P82M1007	10m	40	1200062003	805000I03M050	5m	75	1200063913	805000P20M003	0.3m	110	1200658070	804000S20M080	8m	6	1200060145	803000I03M020	2m	41	1200062037	804000S20M050H	5m	76	1200063993	804000S20M200	20m	111	1200658086	805000P12M020	2m				
7	1200060148	803000I03M100	10m	42	1200062040	804000S20M030H	3m	77	1200064044	804000P82M020	2m	112	1200658103	808000P19M005	0.5m	7	1200060148	803000I03M100	10m	43	1200062049	808000E52M050	5m	78	1200064072	804000P82M006	0.6m	113	1200658104	808000P19M150	15m				
8	1200060166	803000S20M010	1m	44	1200062094	803000H69M050	5m	79	1200064073	803000P82M0107	1m	114	1200658221	804000I20M050	5m	9	1200060167	803000S20M020	2m	45	1200062254	804000P82M0207	2m	80	1200064161	804000I20M100	10m	115	1200658230	805000S20M050	5m				
10	1200060168	803000S20M030	3m	46	1200062268	804000S20M020H	2m	81	1200064164	804000I20M020	2m	116	1200658236	808000E52M020	2m	10	1200060168	803000S20M030	3m	47	1200062363	804000S20M100H	10m	82	1200064230	804000I03M080	8m	117	1200658242	804000H69M300	30m				
11	1200060170	803000S20M050	5m	48	1200062364	804000P04M020G	2m	83	1200064254	804000E52M010A	1m	118	1200658252	805000S26M020	2m	13	1200060173	803000S20M150	15m	49	1200062454	803000P82M0067	0.6m	84	1200064256	803000P82M0207	2m	118	1200658252	805000S26M020	2m				
12	1200060171	803000S20M100	10m	50	1200062496	804000S20M010H	1m	85	1200064445	805000P12M023	2.3m	119	1200658256	808000S19M006	0.6m	14	1200060436	804000E52M200A	20m	51	1200062604	804000P20M100	10m	86	1200064490	804000P20M020	2m	120	1200658282	804000P20M250	25m				
13	1200060173	803000S20M150	15m	52	1200062656	804000P20M030	3m	87	1200065005	805000P82M0207	2m	121	1200658283	805000I03M020	2m	15	1200060452	804000I03M020	2m	53	1200062657	804000P20M050	5m	87	1200065005	805000P82M0207	2m	122	1200658293	803000E52M3001A	30m				
14	1200060436	804000E52M200A	20m	54	1200062675	808000P19M030	3m	88	1200651108	803000K05M020	2m	123	1200658299	805000P82M100	10m	16	1200060454	804000I03M030	3m	55	1200062676	808000P19M050	5m	89	1200651110	803000K05M050	5m	124	1200658466	803000E13C450	0.45m				
15	1200060452	804000I03M020	2m	56	1200062754	803000P82M0047	0.4m	90	1200651121	804000K05M020	2m	125	1200658474	805000S20M020	2m	17	1200060466	804000P82M030	3m	57	1200062765	808000P19M020	2m	91	1200651124	804000K05M050	5m	126	1200658524	803000E13M030	3m				
16	1200060454	804000I03M030	3m	58	1200062858	805000P12M100	10m	92	1200651126	804000K05M100	10m	127	1200658543	804000I20M150	15m	18	1200060467	804000P82M050	5m	59	1200062869	804000P20M150	15m	93	1200651767	803000E52M050A	5m	128	1200658553	805000I26M150	15m				
17	1200060466	804000P82M030	3m	60	1200062969	805000I26M100	10m	94	1200651778	804000E52M050A	5m	129	1200658554	805000I26M200	20m	19	1200060468	804000P82M100	10m	61	1200063017	804000P04M0083	0.8m	95	1200651857	804000E52M100A	10m	130	1200658555	805000I26M250	25m				
18	1200060467	804000P82M050	5m	62	1200063035	805000P20M100	10m	96	1200652019	808000P19M100	10m	131	1200658593	803000I03M040	4m	20	1200060469	804000S20M010	1m	63	1200063041	805000P12M0033	0.3m	97	1200655003	805000S26M050	5m	132	1200658599	804000I03M010	1m				
21	1200060470	804000S20M020	2m	64	1200063114	804000P04M0163	1.6m	98	1200655009	805000S26M100	10m	133	1200658600	804000I03M040	4m	22	1200060471	804000S20M0201	✱ 2m	65	1200063141	803000P12M0033	0.3m	99	1200655010	804000S20M150H	15m	134	1200658605	805000I03M010	1m				
22	1200060471	804000S20M0201	✱ 2m	66	1200063182	804000S20M0501H	5m	100	1200655025	805000I03M100G	10m	135	1200658606	805000I03M040	4m	23	1200060472	804000S20M030	3m	67	1200063205	804000I03M060	6m	101	1200655074	808000P19M060	6m	136	1200658677	808000I02M010	1m				
23	1200060472	804000S20M030	3m	68	1200063205	804000I03M060	6m	102	1200655336	804000P82M0107	1m	137	1200658678	808000I02M020	2m	24	1200060474	804000S20M050	5m	68	1200063409	804000S20M1001	✱ 10m	103	1200655605	804000P82M0307	3m	138	1200658679	808000I02M030	3m				
24	1200060474	804000S20M050	5m	69	1200063562	804000I04M030	3m	104	1200656198	808000S19M010	1m	139	1200658680	808000I02M040	4m	25	1200060476	804000S20M100	10m	70	1200063569	803000S20M003	0.3m	105	1200656199	808000S19M020	2m	140	1200658681	808000I02M050	5m				
25	1200060476	804000S20M100	10m													26	1200060478	804000S20M150	15m																
26	1200060478	804000S20M150	15m													27	1200060644	805000I03M030	3m																
27	1200060644	805000I03M030	3m													28	1200060645	805000I03M100	10m																
28	1200060645	805000I03M100	10m													29	1200060715	805000P82M050	5m																
29	1200060715	805000P82M050	5m													30	1200061240	803000P82M0507	5m																
30	1200061240	803000P82M0507	5m													31	1200061559	803000I20M100	10m																
31	1200061559	803000I20M100	10m													32	1200061620	804000E52M3001A	30m																
32	1200061620	804000E52M3001A	30m													33	1200061680	804000H69M050	5m																
33	1200061680	804000H69M050	5m													34	1200061727	805000I26M050	5m																
34	1200061727	805000I26M050	5m													35	1200061936	805000E63M050A	5m																
35	1200061936	805000E63M050A	5m																																

NOTES:
✱ - Part No. with Yellow PVC overmolding

QUALITY SYMBOLS

FA

= 0

FC

= 0

FB

= 0

FV

= 0

CC

= 0

XS

= 0

■

= 0

▽

= 0

2017/10/19

2017/10/20

EC NO: 123627

DRWN: BBRAUCH

CHK'D: BBRAUCH

APPR: BBRAUCH

REV

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

DIMENSION UNITS

mm

DRWN BY

JMARSZALEK

CHK'D BY

DATE

APPR BY

JALEXANDER

DRAWING SIZE

A3

SCALE

1:1

DATE

2016/01/12

DATE

2016/04/08

THIRD ANGLE PROJECTION

molex®

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

SERIES

120065

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

DOCUMENT NUMBER

1200658605

DOC TYPE

PSD

DOC PART

000

SHEET NUMBER

3 OF 4

RELEASE STATUS

P1

RELEASE DATE

20.10.2017

07:18:20

9

8

7

6

5

	9	8	7	6	5	4	3	2	1								
	PART LIST																
E	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	
	141	1200658682	808000I02M100	10m	176	1200659371	805000I03M100Y	10m	211				246				
	142	1200658701	804000I03M010G	1m	177	1200659376	804000S20M350	35m	212				247				
	143	1200658702	804000I03M020G	2m	178	1200659390	803000S20M070	7m	213				248				
	144	1200658703	804000I03M030G	3m	179	1200659393	805000P12M050	5m	214				249				
D	145	1200658704	804000I03M040G	4m	180	1200659558	803000I20M100Y	10m	215				250				
	146	1200658705	804000I03M050G	5m	181	1200659593	804000H12M020	2m	216				251				
	147	1200658706	804000I03M100G	10m	182	1200659621	804000I04M050	5m	217				252				
	148	1200658806	804000P04M003	0.3m	183	1200659635	805000P20M300	30m	218				253				
	149	1200658807	804000P04M020	2m	184	1200659694	804000P82M1507Y	15m	219				254				
C	150	1200658817	805000I26M010	1m	185	1200659767	804000H12M0209	2m	220				255				
	151	1200658902	804000P82M2007	20m	186	1200659768	804000H12M0309	3m	221				256				
	152	1200658966	805000P82M0507	5m	187	1200659769	804000H12M0509	5m	222				257				
	153	1200658972	808000S19M100	10m	189	1200659770	804000H12M1009	10m	223				258				
	154	1200659026	805000P82M1007	10m	190	1200659989	805000S26M200	20m	224				259				
B	155	1200659049	805000P20M050	5m	191	1200659997	808000E52M100	10m	225				260				
	156	1200659060	804000I03M050Y	5m	192	1200868439	808000S19M150	15m	226				261				
	157	1200659064	803000I03M050Y	5m	193				227				262				
	158	1200659065	804000I03M100Y	10m	194				228				263				
	159	1200659066	804000P82M0507Y	5m	195				229				264				
A	160	1200659067	804000P82M1007Y	10m	196				230				265				
	161	1200659073	803000I03M100Y	10m	197				231				266				
	162	1200659075	804000I03M020Y	2m	198				232				267				
	163	1200659076	804000S20M100Y	10m	199				233				268				
	164	1200659085	805000I03M050Y	5m	200				234				269				
	165	1200659087	804000P82M0207Y	2m	201				235				270				
	166	1200659090	805000I26M100Y	10m	202				236				271				
	167	1200659113	804000H12M050	5m	203				237				272				
	168	1200659116	805000I26M050Y	5m	204				238				273				
	169	1200659119	803000I03M020Y	2m	205				239				274				
	170	1200659175	808000S19M200H	20m	206				240				275				
	171	1200659176	808000S19M300H	30m	207				241				276				
	172	1200659177	804000I03M030Y	3m	208				242				277				
	173	1200659183	808000S19M150H	15m	209				243				278				
	174	1200659184	808000S19M250H	25m	210				244				279				
	175	1200659271	804000H12M100	10m					245				280				
									</								