



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

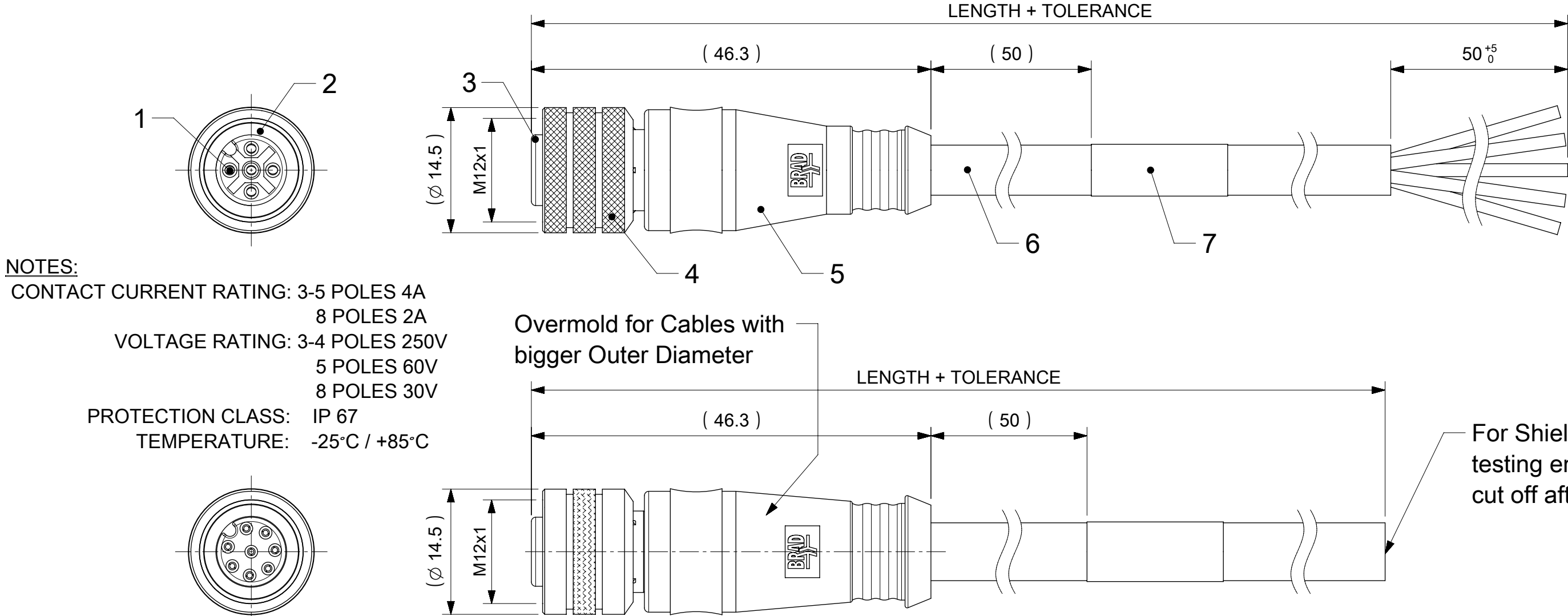


FEMALE PLUG M12 STRAIGHT

NOTES:
CONTACT CURRENT RATING: 3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING: 3-4 POLES 250V
5 POLES 60V
8 POLES 30V
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

CONTACT POSITION FRONT VIEW:

3 POLES		4 POLES		5 POLES		8 POLES	
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 OR PRINTING	VINYL / ---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING 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 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																	
QUALITY SYMBOLS		2016/01/12 2016/04/08 EC NO: 103195 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER		GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 °		DIMENSION UNITS		SCALE		molex® CSE M12 XP AC FE STR XM SE UNSH							
FA = 0 FE = 0 FP = 0						MM		2:1									
▼ = 0 FC = 0						DRWN BY		DATE		JMARSZALEK 2016/01/12							
CP = 0						CHK'D BY		DATE									
CS = 0				4 PLACES		±		APPR BY		DATE		PRODUCT CUSTOMER DRAWING					
CT = 0				3 PLACES		±											
CSX = 0				2 PLACES		± 0.05											
CTX = 0				1 PLACE		± 0.1											
CSY = 0		0 PLACES		± 0.2		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER			
CTY = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		A3				RSILLER 2016/04/08		120065		SEE SHEET 3-4		GENERAL MARKET			
A								REV		DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER	
										1200658605		PSD		000		1 OF 4	

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

OPTIONS

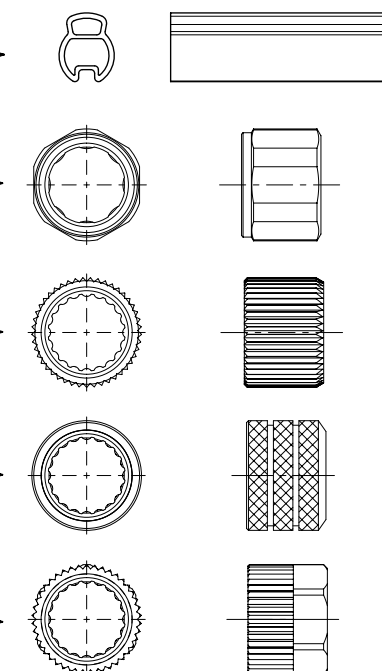
The diagram illustrates a 12-position connector code structure. The code is represented as a sequence of 12 boxes, each containing a character. The characters are grouped into seven categories, each with a corresponding explanation box below:

- Positions 1-2:** 80X. Explanation: 80=M12x1 Single ended.
- Position 3:** 0. Explanation: Poles: 3=3 Poles, 4=4 Poles, 5=5 Poles, 8=8 Poles.
- Positions 4-6:** 000. Explanation: Heads style: 000=Plug Female Straight.
- Positions 7-9:** XXX. Explanation: Cable type: See Table.
- Position 10:** X. Explanation: Units: M=Meter, C=Centimeter, T=10x Meter.
- Positions 11-13:** XXXX. Explanation: Length Examples: 005=0.5 units, 010=1 units, 020=1 units.
- Position 14:** X. Explanation: Overmold (Blank (Star), A=Grey / G, Coupling N).

H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82
always with 2 pcs.
of I/D Carrier)

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

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel _____
5=Knurled Derlin _____
7=Knurled Brass Ni Plated, Teflon Coated
9=Knurled / Hexagonal Brass Ni Plated _____



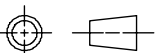
CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAW CHAIN	SHIELDING
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

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

RELEASE STATUS	P1	RELEASE DATE	08.04.2016	07:21:47
----------------	----	--------------	------------	----------

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										
 = 0	EC NO: 103195 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER REV: A	2016/01/12 2016/04/08	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 ° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.1 0 PLACES ± 0.2 DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	DIMENSION UNITS		SCALE						
 = 0				MM		1:1						
 = 0				DRWN BY		DATE		CSE M12 XP AC FE STR XM SE UNSH				
 = 0				JMARSZALEK		2016/01/12						
 = 0				CHK'D BY		DATE						
 = 0				APPR BY		DATE		PRODUCT CUSTOMER DRAWING				
 = 0				RSILLER		2016/04/08						
 = 0				DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER	
				A3				120065	SEE SHEET 3-4		GENERAL MARKET	
								DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER
					1200658605		PSD	000	2 OF 4			

9				8				7				6				5				4				3				2				1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
PART LIST																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
1	1200060017	804000I03M050	5m	36	1200061955	804000I03M200A	20m	71	1200063684	804000S20M2001	20m	106	1200658070	804000S20M080	8m	2	1200060030	803000I03M050	5m	37	1200061956	804000I03M300A	30m	72	1200063819	804000E52K0011A	100m	107	1200658086	805000P12M020	2m	3	1200060033	804000I03M100	10m	38	1200061957	804000I03M400A	40m	73	1200063824	805000I03M050G	5m	108	1200658103	808000P19M005	0.5m	4	1200060035	804000P82M0507	5m	39	1200061970	804000I03M100A	10m	74	1200063859	804000S20M0501	5m	109	1200658104	808000P19M150	15m	5	1200060036	804000P82M1007	10m	40	1200062003	805000I03M050	5m	75	1200063913	805000P20M003	0.3m	110	1200658221	804000I20M050	5m	6	1200060145	803000I03M020	2m	41	1200062037	804000S20M050H	5m	76	1200063993	804000S20M200	20m	111	1200658230	805000S20M050	5m	7	1200060148	803000I03M100	10m	42	1200062040	804000S20M030H	3m	77	1200064044	804000P82M020	2m	112	1200658236	808000E52M020	2m	8	1200060166	803000S20M010	1m	43	1200062049	808000E52M050	5m	78	1200064072	804000P82M006	0.6m	113	1200658242	804000H69M300	30m	9	1200060167	803000S20M020	2m	44	1200062094	803000H69M050	5m	79	1200064073	803000P82M0107	1m	114	1200658252	805000S26M020	2m	10	1200060168	803000S20M030	3m	45	1200062254	804000P82M0207	2m	80	1200064161	804000I20M100	10m	115	1200658256	808000S19M006	0.6m	11	1200060170	803000S20M050	5m	46	1200062268	804000S20M020H	2m	81	1200064164	804000I20M020	2m	116	1200658282	804000P20M250	25m	12	1200060171	803000S20M100	10m	47	1200062363	804000S20M100H	10m	82	1200064230	804000I03M080	8m	117	1200658283	805000I03M020	2m	13	1200060173	803000S20M150	15m	48	1200062364	804000P04M020G	2m	83	1200064254	804000E52M010A	1m	118	1200658293	803000E52M3001A	30m	14	1200060436	804000E52M200A	20m	49	1200062454	803000P82M0067	0.6m	84	1200064256	803000P82M0207	2m	119	1200658299	805000P82M100	10m	15	1200060452	804000I03M020	2m	50	1200062496	804000S20M010H	1m	85	1200064445	805000P12M023	2.3m	120	1200658466	803000E13C450	0.45m	16	1200060454	804000I03M030	3m	51	1200062604	804000P20M100	10m	86	1200064490	804000P20M020	2m	121	1200658474	805000S20M020	2m	17	1200060466	804000P82M030	3m	52	1200062656	804000P20M030	3m	87	1200065005	805000P82M0207	2m	122	1200658524	803000E13M030	3m	18	1200060467	804000P82M050	5m	53	1200062657	804000P20M050	5m	88	1200651108	803000K05M020	2m	123	1200658543	804000I20M150	15m	19	1200060468	804000P82M100	10m	54	1200062675	808000P19M030	3m	89	1200651110	803000K05M050	5m	124	1200658553	805000I26M150	15m	20	1200060469	804000S20M010	1m	55	1200062676	808000P19M050	5m	90	1200651121	804000K05M020	2m	125	1200658554	805000I26M200	20m	21	1200060470	804000S20M020	2m	56	1200062754	803000P82M0047	0.4m	91	1200651124	804000K05M050	5m	126	1200658555	805000I26M250	25m	22	1200060471	804000S20M0201	2m	57	1200062765	808000P19M020	2m	92	1200651126	804000K05M100	10m	127	1200658593	803000I03M040	4m	23	1200060472	804000S20M030	3m	58	1200062858	805000P12M100	10m	93	1200651767	803000E52M050A	5m	128	1200658599	804000I03M010	1m	24	1200060474	804000S20M050	5m	59	1200062869	804000P20M150	15m	94	1200651778	804000E52M050A	5m	129	1200658600	804000I03M040	4m	25	1200060476	804000S20M100	10m	60	1200062969	805000I26M100	10m	95	1200651857	804000E52M100A	10m	130	1200658605	805000I03M010	1m	26	1200060478	804000S20M150	15m	61	1200063017	804000P04M0083	0.8m	96	1200652019	808000P19M100	10m	131	1200658606	805000I03M040	4m	27	1200060644	805000I03M030	3m	62	1200063035	805000P20M100	10m	97	1200655003	805000S26M050	5m	132	1200658677	808000I02M010	1m	28	1200060645	805000I03M100	10m	63	1200063041	805000P12M0033	0.3m	98	1200655009	805000S26M100	10m	133	1200658678	808000I02M020	2m	29	1200060715	805000P82M050	5m	64	1200063114	804000P04M0163	1.6m	99	1200655010	804000S20M150H	15m	134	1200658679	808000I02M030	3m	30	1200061240	803000P82M0507	5m	65	1200063141	803000P12M0033	0.3m	100	1200655025	805000I03M100G	10m	135	1200658680	808000I02M040	4m	31	1200061559	803000I20M100	10m	66	1200063182	804000S20M0501H	5m	101	1200655074	808000P19M060	6m	136	1200658681	808000I02M050	5m	32	1200061620	804000E52M3001A	30m	67	1200063205	804000I03M060	6m	102	1200655336	804000P82M0107	1m	137	1200658682	808000I02M100	10m	33	1200061680	804000H69M050	5m	68	1200063409	804000S20M1001	10m	103	1200655605	804000P82M0307	3m	138	1200658701	804000I03M010G	1m	34	1200061727	805000I26M050	5m	69	1200063562	804000I04M030	3m	104	1200658015	805000E63M020A	2m	139	1200658702	804000I03M020G	2m	35	1200061936	805000E63M050A	5m	70	1200063569	803000S20M003	0.3m	105	1200658043	803000S20M005	0.5m	140	1200658703	804000I03M030G	3m

QUALITY SYMBOLS				THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
				2016/01/12		2016/04/08		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		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							
DRWN BY		DATE																			
JMARZSALEK		2016/01/12																			
CHK'D BY		DATE																			
APPR BY		DATE																			
RSILLER		2016/04/08																			
DRAWING SIZE		THIRD ANGLE PROJECTION																			
A3																					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																					

RELEASE STATUS	P1	RELEASE DATE	08.04.2016	07:21:47
9		8		7
6		5		4
3		2		1

	9	8	7	6	5	4	3	2	1																
E	PART LIST										E														
	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.		Engineering No.	Cable Length												
	141	1200658704	804000I03M040G	4m	176	1200659558	803000I20M100Y	10m	211																
	142	1200658705	804000I03M050G	5m	177	1200659593	804000H12M020	2m	212																
	143	1200658706	804000I03M100G	10m	178	1200659621	804000I04M050	5m	213																
	144	1200658806	804000P04M003	0.3m	179	1200659635	805000P20M300	30m	214																
	145	1200658807	804000P04M020	2m	180	1200659694	804000P82M1507Y	15m	215																
	146	1200658817	805000I26M010	1m	181	1200868439	808000S19M150	15m	216																
	147	1200658902	804000P82M2007	20m	182				217																
	148	1200658966	805000P82M0507	5m	183				218																
D	149	1200658972	808000S19M100	10m	184				219																
	150	1200659026	805000P82M1007	10m	185				220																
	151	1200659049	805000P20M050	5m	186				221																
	152	1200659060	804000I03M050Y	5m	187				222																
	153	1200659064	803000I03M050Y	5m	188				223																
	154	1200659065	804000I03M100Y	10m	189				224																
	155	1200659066	804000P82M0507Y	5m	190				225																
	156	1200659067	804000P82M1007Y	10m	191				226																
	157	1200659073	803000I03M100Y	10m	192				227																
	158	1200659075	804000I03M020Y	2m	193				228																
C	159	1200659076	804000S20M100Y	10m	194				229																
	160	1200659085	805000I03M050Y	5m	195				230																
	161	1200659087	804000P82M0207Y	2m	196				231																
	162	1200659090	805000I26M100Y	10m	197				232																
	163	1200659113	804000H12M050	5m	198				233																
	164	1200659116	805000I26M050Y	5m	199				234																
	165	1200659119	803000I03M020Y	2m	200				235																
	166	1200659175	808000S19M200H	20m	201				236																
	167	1200659176	808000S19M300H	30m	202				237																
	168	1200659177	804000I03M030Y	3m	203				238																
B	169	1200659183	808000S19M150H	15m	204				239																
	170	1200659184	808000S19M250H	25m	205				240																
	171	1200659271	804000H12M100	10m	206				241																
	172	1200659371	805000I03M100Y	10m	207				242																
	173	1200659376	804000S20M350	35m	208				243																
	174	1200659390	803000S20M070	7m	209				244																
	175	1200659393	805000P12M050	5m	210				245																
A											A														
	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																								
	QUALITY SYMBOLS		2016/01/12		2016/04/08		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS			SCALE		molex [®]											
	= 0		EC NO: 103195 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER		ANGULAR TOL ± 1.0 °		MM		1:1																
	= 0						DRWN BY		DATE																
	= 0						JMARSZALEK		2016/01/12																
	= 0				4 PLACES		±		CHK'D BY			DATE		PRODUCT CUSTOMER DRAWING											
	= 0				3 PLACES		±		APPR BY			DATE													
	= 0				2 PLACES		± 0.05																		
	= 0				1 PLACE		± 0.1																		
= 0						0 PLACES		± 0.2		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES		MATERIAL NUMBER		CUSTOMER					
= 0												A3				120065		SEE PART LIST		GENERAL MARKET					
																DOCUMENT NUMBER		DOC TYPE		DOC PART		SHEET NUMBER			
																		1200658605		PSD		000		4 OF 4	
		</																							