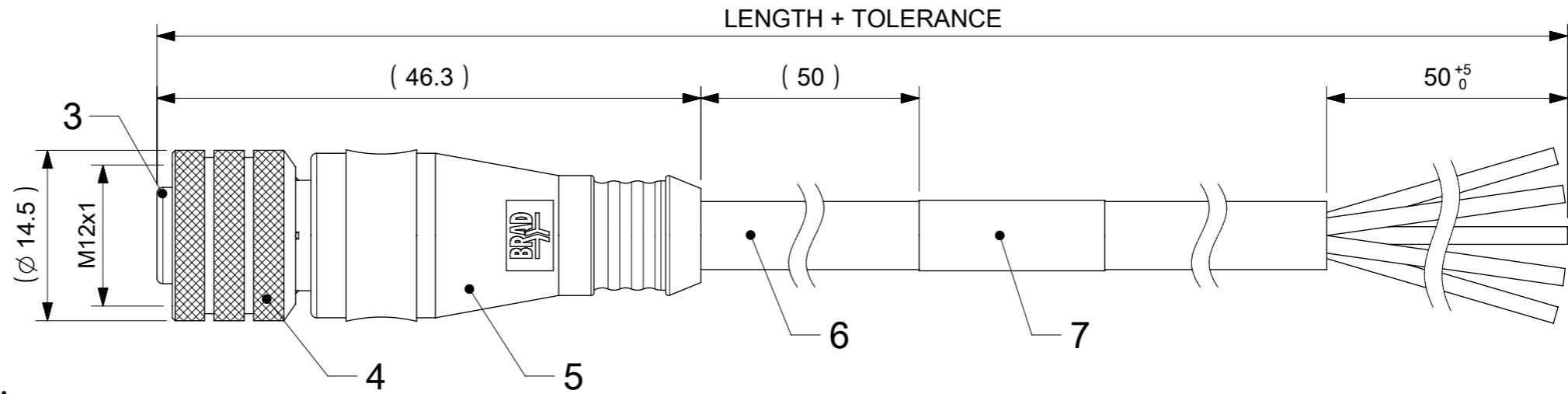
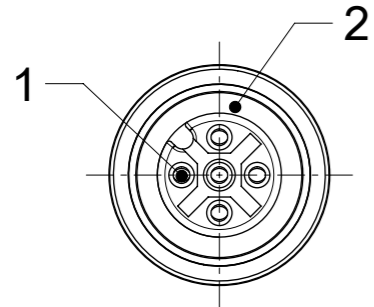
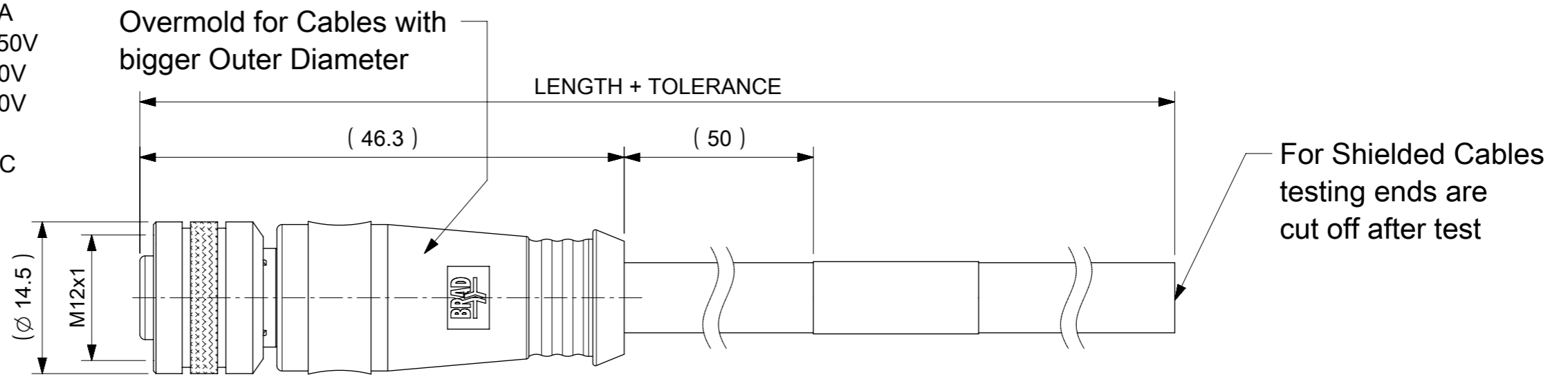
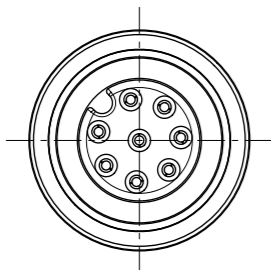


FEMALE PLUG M12 STRAIGHT



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

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
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

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

QUALITY SYMBOLS	EC NO: 103195 DRWN: JMARSZALEK CHK'D: APPR: RSILLER 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: MM SCALE: 2:1 DRWN BY: JMARSZALEK DATE: 2016/01/12 CHK'D BY: DATE: APPR BY: RSILLER DATE: 2016/04/08	 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
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ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

80X000XXXXXX

80=M12x1 Single ended

Poles:
3=3 Poles
4=4 Poles
5=5 Poles
8=8 Poles

Heads style:
000=Plug Female Straight

Cable type: See Table

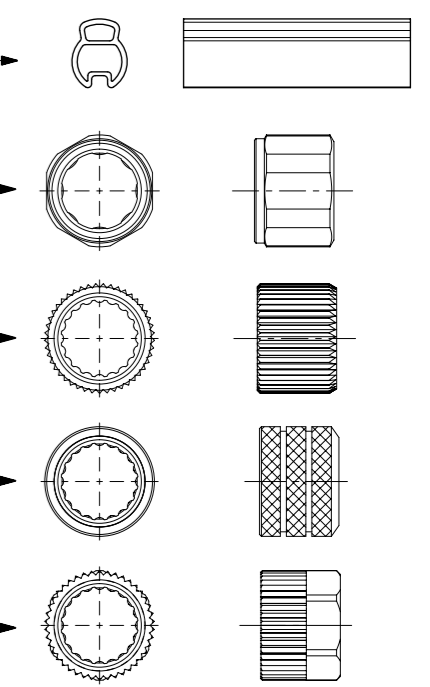
Units:
M=Meter
C=Centimeter
T=10x Meter

Length
Examples:
005=0.5 units
010=1 units
020=1 units
050=5 units
100=10 units
150=15 units
200=20 units

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

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



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

CABLE LENGTH TOLERANCES


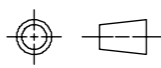
OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

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

QUALITY SYMBOLS FA = 0 FE = 0 FB = 0 FC = 0 FD = 0 FE = 0 FF = 0 FG = 0 FH = 0	EC NO: 103195 DRWN: JMARSZALEK CHK'D: APPR: RSILLER	2016/01/12 2016/04/08	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS	SCALE		
			ANGULAR TOL ± 1.0 °		MM	1:1		
			4 PLACES ±		DRWN BY	DATE		
			3 PLACES ±		JMARSZALEK	2016/01/12		
2 PLACES ± 0.05		CHK'D BY	DATE					
1 PLACE ± 0.1		APPR BY	DATE					
0 PLACES ± 0.2		RSILLER	2016/04/08					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE	THIRD ANGLE PROJECTION	PRODUCT CUSTOMER DRAWING				
		A3		SERIES	MATERIAL NUMBER	CUSTOMER		
				120065	SEE SHEET 3-4	GENERAL MARKET		
				DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER
				1200658605		PSD	000	2 OF 4

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
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

<p>QUALITY SYMBOLS</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p> <p>▽ = 0</p>	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				
			ANGULAR TOL ± 1.0 °		MM	1:1				
	EC NO: 103195 DRWN: JMARSZALEK CHK'D: RSILLER APPR: RSILLER	REV: A	4 PLACES	±	DRWN BY	DATE				
			3 PLACES	±	JMARSZALEK	2016/01/12				
			2 PLACES	± 0.05	CHK'D BY	DATE	PRODUCT CUSTOMER DRAWING			
			1 PLACE	± 0.1	RSILLER	2016/04/08				
	0 PLACES	± 0.2	APPR BY	DATE	SERIES	MATERIAL NUMBER	CUSTOMER			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE	THIRD ANGLE PROJECTION	120065	SEE PART LIST	GENERAL MARKET			
			A3		DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER	
				1200658605		PSD	000	3 OF 4		

PART LIST

Pos.	Part No.	Engineering No.	Cable Length
141	1200658704	804000I03M040G	4m
142	1200658705	804000I03M050G	5m
143	1200658706	804000I03M100G	10m
144	1200658806	804000P04M003	0.3m
145	1200658807	804000P04M020	2m
146	1200658817	805000I26M010	1m
147	1200658902	804000P82M2007	20m
148	1200658966	805000P82M0507	5m
149	1200658972	808000S19M100	10m
150	1200659026	805000P82M1007	10m
151	1200659049	805000P20M050	5m
152	1200659060	804000I03M050Y	5m
153	1200659064	803000I03M050Y	5m
154	1200659065	804000I03M100Y	10m
155	1200659066	804000P82M0507Y	5m
156	1200659067	804000P82M1007Y	10m
157	1200659073	803000I03M100Y	10m
158	1200659075	804000I03M020Y	2m
159	1200659076	804000S20M100Y	10m
160	1200659085	805000I03M050Y	5m
161	1200659087	804000P82M0207Y	2m
162	1200659090	805000I26M100Y	10m
163	1200659113	804000H12M050	5m
164	1200659116	805000I26M050Y	5m
165	1200659119	803000I03M020Y	2m
166	1200659175	808000S19M200H	20m
167	1200659176	808000S19M300H	30m
168	1200659177	804000I03M030Y	3m
169	1200659183	808000S19M150H	15m
170	1200659184	808000S19M250H	25m
171	1200659271	804000H12M100	10m
172	1200659371	805000I03M100Y	10m
173	1200659376	804000S20M350	35m
174	1200659390	803000S20M070	7m
175	1200659393	805000P12M050	5m

Pos.	Part No.	Engineering No.	Cable Length
176	1200659558	803000I20M100Y	10m
177	1200659593	804000H12M020	2m
178	1200659621	804000I04M050	5m
179	1200659635	805000P20M300	30m
180	1200659694	804000P82M1507Y	15m
181	1200868439	808000S19M150	15m
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Pos.	Part No.	Engineering No.	Cable Length
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Pos.	Part No.	Engineering No.	Cable Length
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QUALITY SYMBOLS 	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
	EC NO: 103195 DRWN: JMARSZALEK CHK'D: REV APPR: RSILLER	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0 °		DIMENSION UNITS MM	SCALE 1:1
		4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.1 0 PLACES ± 0.2	DRWN BY JMARSZALEK	DATE 2016/01/12	CHK'D BY DATE
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPR BY RSILLER	DATE 2016/04/08	DRAWING SIZE A3
		THIRD ANGLE PROJECTION 			
		PRODUCT CUSTOMER DRAWING			
		SERIES 120065	MATERIAL NUMBER SEE PART LIST	CUSTOMER GENERAL MARKET	
		DOCUMENT NUMBER 1200658605		DOC TYPE PSD	DOC PART 000
				SHEET NUMBER 4 OF 4	