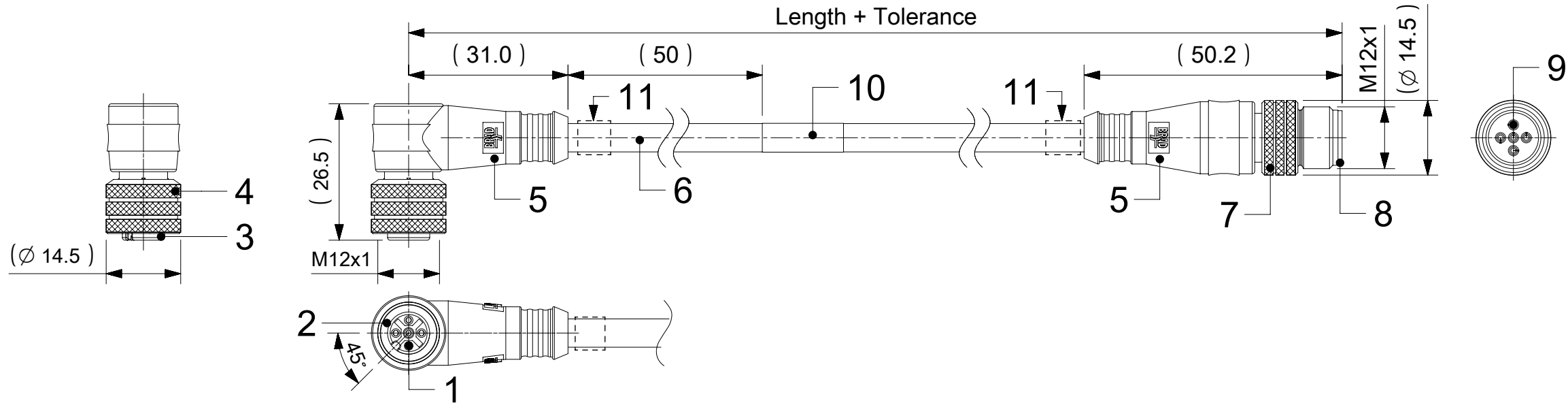


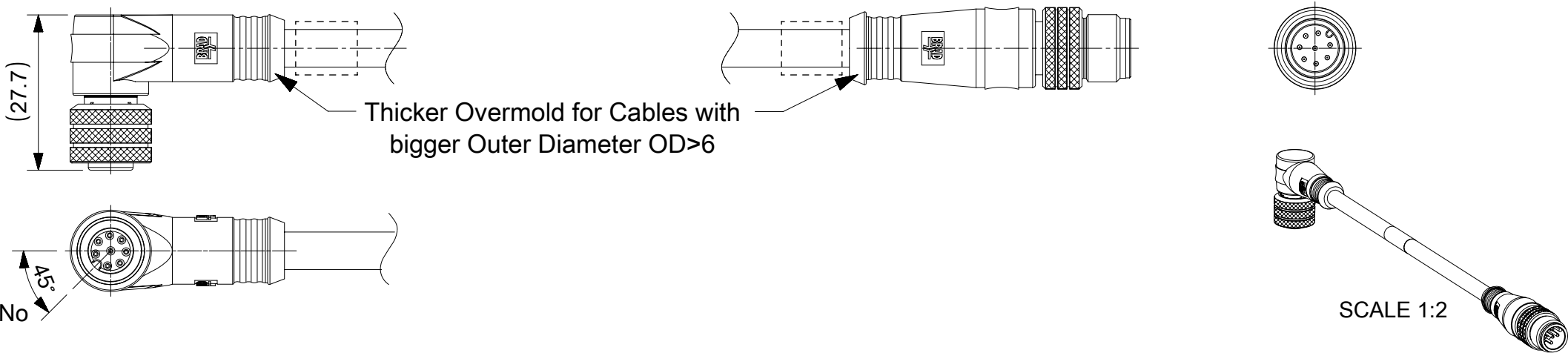
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



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

* FOR CABLES Ixx USE PRINTING ON THE CABLE IN THE SAME MEASUREMENT LIKE FOR LABEL – ENGINEERING No



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	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE PART LIST	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES Ixx	---	---
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE Au OVER Ni
8	1	INSERT MALE BLACK	SEE PART LIST	---
7	1	COUPLING NUT MALE	SEE PART LIST	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	SEE PART LIST	---
4	1	COUPLING NUT FEMALE	SEE PART LIST	---
3	1	INSERT FEMALE BLACK	SEE PART LIST	---
2	1	O-RING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE Au OVER Ni
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: ADD NEW PN FOR NEW LENGTH 7M			molex		
mm		1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 1.0 °		EC NO: 791338 DRWN: RSILLER 2024/07/03 CHK'D: THAERDT 2024/07/03 APPR: THAERDT 2024/07/03			CSE M12 XP AC FE RA MA STR XM DE				
4 PLACES ±									
3 PLACES ±									
2 PLACES ± 0.05									
1 PLACE ± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/10/06 APPR: RSILLER 2016/12/08			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES ± 0.5					1200660973		PSD	000	A11
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER	SHEET NUMBER
				A3-SIZE	120066			GENERAL MARKET	1 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/03	14:19:30
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ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

8	8	X	0	X	1	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---	---	---	---	---

88=Micro-Change
M12x1
Double ended

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

Heads style: 031=Plug Female 90° to Plug Male Straight 021=Plug Female 90° to Plug Male Straight with Female Coupling Nut

Cable type: See Table

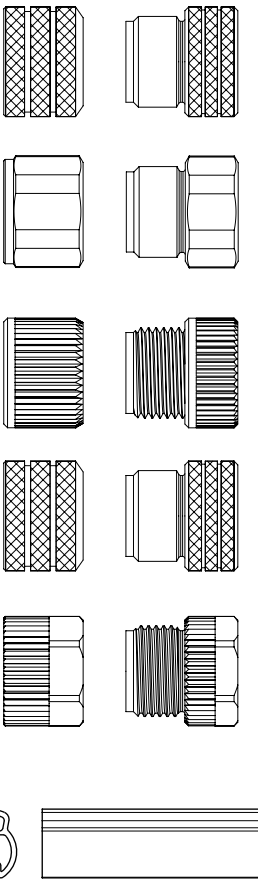
Units:
M=Meter
C=Centimeter

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

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent —
(Cables lxx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.)

COUPLING NUT
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
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°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	-	YES
K03	4	18AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
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.	-	-
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	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
H08	8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	UL 21198/10493	-40°C to +80°C, >5xO.D.	-25°C to +80°C, >10xO.D.	2 000 000 cycles, Temp max 60°C	-
P02	8	0.25mm²	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

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/03	14:19:30
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DIMENSION UNITS		SCALE		CURRENT REV DESC: ADD NEW PN FOR NEW LENGTH 7M					molex						
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE RA MA STR XM DE											
ANGULAR TOL ± 1.0°															
4 PLACES		±		EC NO: 791338					PRODUCT CUSTOMER DRAWING						
3 PLACES		±		DRWN: RSILLER 2024/07/03											
2 PLACES		± 0.05		CHK'D: THAERDT 2024/07/03											
1 PLACE ± 0.3				APPR: THAERDT 2024/07/03					DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION
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DRWN: JMARSZALEK 2016/10/06				2016/10/08					1200660973			PSD	000	A11	
APPR: RSILLER				THIRD ANGLE PROJECTION		DRAWING	SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						A3-SIZE		120066		GENERAL MARKET		2 OF 4			

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																							
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40	1200659115	884031I20M005Y	0.5m																																																																																																																																																																														
41	1200660374	884031K05M005	0.5m																																																																																																																																																																														
42	1200660375	884031K05M006	0.6m																																																																																																																																																																														
43	1200660376	884031K05M010	1m																																																																																																																																																																														
44	1200660377	884031K05M015	1.5m																																																																																																																																																																														
45	1200660378	884031K05M020	2m																																																																																																																																																																														
46	1200660379	884031K05M030	3m																																																																																																																																																																														
47	1200660380	884031K05M040	4m																																																																																																																																																																														
48	1200660381	884031K05M050	5m																																																																																																																																																																														
49	1200660382	884031K05M060	6m																																																																																																																																																																														
75	1200668071	884031S20M020	2m																																																																																																																																																																														
76	1200668191	883031S20M030	3m																																																																																																																																																																														
77	1200668237	883031S20M100	10m																																																																																																																																																																														
78	1200668258	883031I03M080	8m																																																																																																																																																																														
79	1200668287	884031I20M025	2.5m																																																																																																																																																																														
80	1200668667	884031I20M030Y	3m																																																																																																																																																																														
81	1200070443	884021S20M003	0.3m																																																																																																																																																																														
82	1200070444	884021S20M006	0.6m																																																																																																																																																																														
83	1200070445	884021S20M010	1m																																																																																																																																																																														
84	1200070446	884021S20M020	2m																																																																																																																																																																														
110	1200658763	883031H09M010	1m																																																																																																																																																																														
111	1200658764	883031H09M020	2m																																																																																																																																																																														
112	1200658765	883031H09M030	3m																																																																																																																																																																														
113	1200669349	883031H09M030H	3m																																																																																																																																																																														
114	1200658766	883031H09M040	4m																																																																																																																																																																														
115	1200658767	883031H09M050	5m																																																																																																																																																																														
116	1200658768	883031H09M100	10m																																																																																																																																																																														
117	1200070140	883031P03M003	0.3m																																																																																																																																																																														
118	1200070141	883031P03M006	0.6m																																																																																																																																																																														
119	1200070142	883031P03M010	1m																																																																																																																																																																														
D	<table> <tr><td>15</td><td>1200070523</td><td>884031I03M030</td><td>3m</td></tr> <tr><td>16</td><td>1200070534</td><td>884031S20M030</td><td>3m</td></tr> <tr><td>17</td><td>1200070651</td><td>884031I03M006</td><td>0.6m</td></tr> <tr><td>18</td><td>1200070768</td><td>884031S20M050</td><td>5m</td></tr> <tr><td>19</td><td>1200070783</td><td>884031S20M100H</td><td>10m</td></tr> <tr><td>20</td><td>1200071138</td><td>884031S20M010H</td><td>1m</td></tr> <tr><td>21</td><td>1200071139</td><td>884031S20M020H</td><td>2m</td></tr></table>	15	1200070523	884031I03M030	3m	16	1200070534	884031S20M030	3m	17	1200070651	884031I03M006	0.6m	18	1200070768	884031S20M050	5m	19	1200070783	884031S20M100H	10m	20	1200071138	884031S20M010H	1m	21	1200071139	884031S20M020H	2m																																																																																																																																																				
15	1200070523	884031I03M030	3m																																																																																																																																																																														
16	1200070534	884031S20M030	3m																																																																																																																																																																														
17	1200070651	884031I03M006	0.6m																																																																																																																																																																														
18	1200070768	884031S20M050	5m																																																																																																																																																																														
19	1200070783	884031S20M100H	10m																																																																																																																																																																														
20	1200071138	884031S20M010H	1m																																																																																																																																																																														
21	1200071139	884031S20M020H	2m																																																																																																																																																																														

FORMAT: master-tb-prod-A3 REVISION: J1 DATE: 2021/05/01	9	8
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4	3	2	1
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F	Pos.	Part No.	Engineering No.	Cable Length	Pos.	Part No.	Engineering No.	Cable Length																																			
	143	1200668210	884031H09M009	0.9m	191	1200656208	888031H08C250	2.5m																																			
	144	1200668484	884031H09M010	1m	192	1200656209	888031H08M005	0.5m																																			
	145	1200668848	884031H09M013	1.3m	193	1200656210	888031H08M008	0.8m																																			
	146	1200668488	884031H09M015	1.5m	194	1200656211	888031H08M012	1.2m																																			
E	147	1200668845	884031H09M018	1.8m	195	1200656212	888031H08M015	1.5m																																			
	148	1200668212	884031H09M020	2m	196	1200070057	883021E03M006	0.6m																																			
	149	1200668847	884031H09M021	2.1m	197	1200070058	883021E03M020	2m																																			
	150	1200668215	884031H09M030	3m	198	1200070439	884021P03M006	0.6m																																			
	151	1200668670	884031H09M050	5m	199	1200070440	884021P03M010	1m																																			
D	152	1200668671	884031H09M100	10m	200	1200070441	884021P03M020	2m																																			
	153	1200070526	884031P03M003	0.3m	201	1200070442	884021P03M030	3m																																			
	154	1200070527	884031P03M006	0.6m	202	1200070870	883021P03M050	5m																																			
	155	1200060056	884031P03M010	1m	203	1200072191	883021E03M030	3m																																			
	156	1200060057	884031P03M020	2m	204	1200072198	883021E03M050	5m																																			
C	157	1200070529	884031P03M030	3m	205	1200665038	884021E03M050	5m																																			
	158	1200071187	884031P03M050	5m	206	1200668061	884021E03M006	0.6m																																			
	159	1200072012	884031P03M100	10m	207	1200668219	884021E03M030	3m																																			
	160	1300288001	885031D12M020	2m	208	1200668673	888031E02M0041	0.4m																																			
	161	1200668658	885031E02M020	2m	209	1200669541	884031P03M015	1.5m																																			
B	162	1200668610	885031E02M050	5m	210	1200669885	884031E03M004	0.4m																																			
	163	1200668660	885031E02M100	10m	211	1200669886	884031E03M005	0.5m																																			
	164	1200668339	885031E03M006	0.6m	212	1200669887	884031E03M013	1.3m																																			
	165	1200668189	885031E03M010	1m	213	1200669888	884031E03M080	8m																																			
	166	1200668278	885031E03M020	2m	214	1200070510	883031E03M070	7m																																			
A	167	1200668340	885031E03M030	3m																																							
	168	1200668279	885031E03M050	5m																																							
	169	1200668653	885031E03M070	7m																																							
	170	1200668348	885031E03M100	10m																																							
	171	1200668761	885031E03M150	15m																																							
	172	1200669229	885031H09C250	25m																																							
	173	1200668512	885031H09M006	0.6m																																							
	174	1200668496	885031H09M010	1m																																							
	175	1200668513	885031H09M020	2m																																							
	176	1200668514	885031H09M030	3m																																							
	177	1200668515	885031H09M050	5m																																							
	178	1200668516	885031H09M100	10m																																							
	179	1200073085	885031P03M006	0.6m																																							
	180	1200668188	885031P03M010	1m																																							
	181	1200072376	885031P03M0105	1m																																							
	182	1200070917	885031P03M020	2m																																							
	183	1200668091	885031P03M025	2.5m																																							
	184	1200070919	885031P03M030	3m																																							
	185	1200668273	885031P03M050	5m																																							
	186	1200073086	885031P03M100	10m																																							
	187	1200070434	884021E03M020	2m																																							
	188	1200658319	888031H08M050	5m																																							
	189	1200668673	888031E02M0041	0.4m																																							
	190	1200668849	888031P02M150	15m																																							
DOCUMENT STATUS				P1	RELEASE DATE				2024/07/03	14:19:30																																	
FORMAT: master-b-prod-A3				9				8				7				6				5				4				3				2				1							
REVISION: 11																																											
DATE: 2021/05/01																																											

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: ADD NEW PN FOR NEW LENGTH 7M									
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 791338 DRWN: RSILLER2024/07/03 CHK'D: THAERDT2024/07/03 APPR: THAERDT2024/07/03 INITIAL REVISION: DRWN: JMARSZALEK2016/10/06 APPR: RSILLER2016/12/08									
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					
								A3-SIZE		120066			
molex CSE M12 XP AC FE RA MA STR XM DE PRODUCT CUSTOMER DRAWING						DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
						1200660973		PSD		000		A11	
						MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
								GENERAL MARKET				4 OF 4	