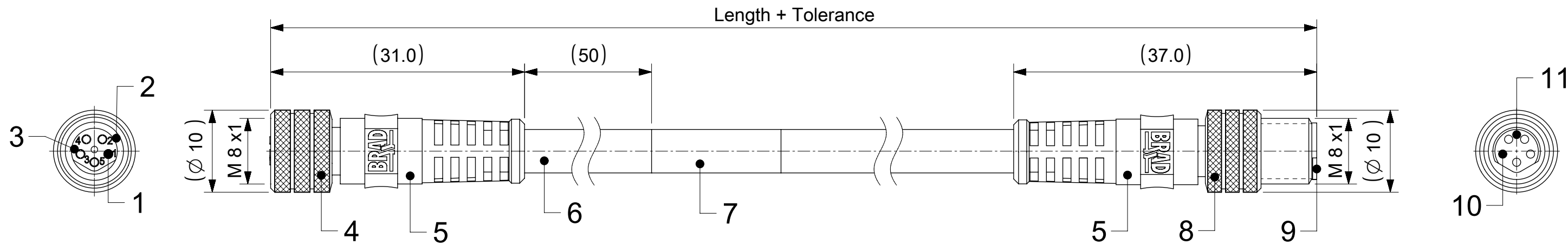


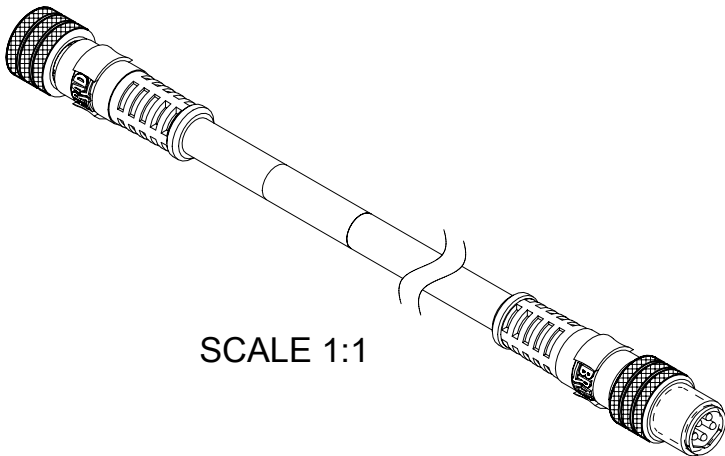
FEMALE PLUG M8 STRAIGHT TO MALE PLUG M8 STRAIGHT



NOTES:
RATED VOLTAGE: 3 contacts 60V AC/DC
4 and 5 contacts 30V AC/DC
CURRENT RATING: 3, 4, 5 contacts 3A
PROTECTION CLASS: IP 67 in mated and locked position.
TEMPERATURE: SEE CABLE INFORMATION
INSULATION RESISTANCE: 10⁸ Ω MIN.
MATING CYCLES: MIN. 100
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS	
FEMALE						
MALE						
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN
	3	BLUE	2	WHITE	2	WHITE
	4	BLACK	3	BLUE	3	BLUE
			4	BLACK	4	BLACK
					5	GREY
CODING ACCORDING TO IEC 61076-2-104						



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	1	INSERT MALE BLACK	TPU	---
10	3 / 4 / 5	CONTACT M8 MALE	BRASS	SELECTIVE Au OVER Ni
9	1	SLEEVE	BRASS	NICKEL
8	1	COUPLING NUT M8 MALE	BRASS	NICKEL
7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT M8 FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	TPU	---
2	1	O-RING RED	FKM	---
1	3 / 4 / 5	CONTACT M8 FEMALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS	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: PACKAGING SPEC ADDED				molex												
	mm		2:1																		
	GENERAL TOLERANCES (UNLESS SPECIFIED)																				
	ANGULAR TOL ± 1.0 °																				
	4 PLACES		±																		
3 PLACES		±																			
2 PLACES		± 0.05																			
1 PLACE		± 0.3																			
0 PLACES		± 0.5																			
DIVISIONAL SYMBOLS		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION				DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
										A3-SIZE		120087		1200878240		PSD		000		A17	
														MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
														SEE PART LIST		GENERAL MARKET		1 OF 4			

ENGINEERING NO. - NUMERICAL CODE

(Available parts see PART LIST table. Other parts available upon request).

OPTIONS

4

4

X

0

3

0

X

X

X

X

X

X

X

X

44=Nano-Change
M8x1
Double ended

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

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

Cable type: See Table

Units:
M=Meter
C=Centimeter

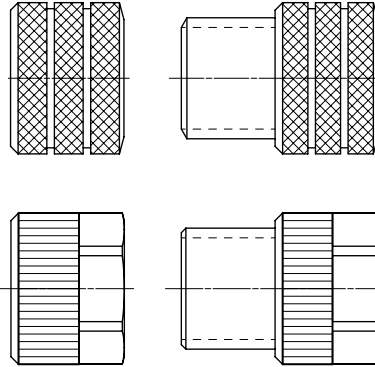
Length
Examples:
005=0.5 unit
010=1 unit
100=10 unit

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

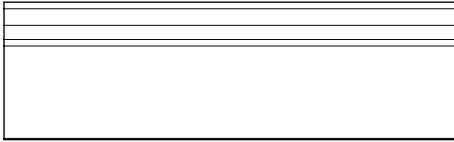
Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
9=Knurled / Hexagonal SW9 Brass Ni Plated

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

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
E02	3 / 4 / 5	0.25 mm²	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	0.25 mm²	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	-
I02	3 / 4	0.25 mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
P02	3 / 4 / 5	0.25 mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
P82	3	0.34 mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
H70	5	0.25 mm²	PUR BLACK	-	-	-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	-

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

FUNCTIONAL SYMBOLS

0

0

0

DIVISIONAL SYMBOLS

4 PLACES

3 PLACES

2 PLACES

1 PLACE

0 PLACES

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

SCALE

2:1

CURRENT REV DESC: PACKAGING SPEC ADDED

EC NO: 770174
DRWN: RSCHIEBER
CHK'D: RSILLER
APPR: RSILLER

2023/10/18
2023/11/30
2023/11/30

INITIAL REVISION:

DRWN: JMARSZALEK
APPR: RSILLER

2016/09/15
2017/01/11

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120087

DOCUMENT NUMBER

1200878240

DOC TYPE

PSD

DOC PART

000

REVISION

A17

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

CSE M8 M8 XP AC BC FE STR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT STATUS

P1

RELEASE DATE

2023/11/30

13:31:02

PART LIST

No.	Molex PN	Engineering No.	Cable Length
1	1200271413	445030H08M010	1m
2	1200280321	443030E02M020	2m
3	1200280343	443030E02M030	3m
4	1200280384	443030I02M006	0.6m
5	1200280427	443030I02M010	1m

No.	Molex PN	Engineering No.	Cable Length
36	1200878273	443030E02M003	0.3m
37	1200878274	443030E02M015	1.5m
38	1200878275	443030E02M025H	2.5m
39	1200878276	443030E02M050H	5m
40	1200878277	443030E02M060	6m

No.	Molex PN	Engineering No.	Cable Length
71	1200878351	444030E02M025	2.5m
72	1200878352	444030E02M030	3m
73	1200878353	444030E02M040	4m
74	1200878354	444030E02M050	5m
75	1200878355	444030E02M100	10m

No.	Molex PN	Engineering No.	Cable Length
106	1200878643	443030E02M010H	1m
107	1200878644	443030E02M020H	2m
108	1200878645	443030E02M030H	3m
109	1200878655	443030E02M040H	4m
110	1200878658	444030E02M050	25m

	5	1200280427	443030I02M010	1m	40	1200878277	443030E02M060	6m	75	1200878355	444030E02M100	10m	110	1200878658	444030E02M250	25m
6		1200280462	443030E02M050	5m	41	1200878278	443030E02M100	10m	76	1200878356	444030H08M020	2m	111	1200878661	444030E02M015H	1.5m
7		1200280464	443030E02M040	4m	42	1200878279	443030E02M150	15m	77	1200878357	444030P02M003	0.3m	112	1200878663	443030E02M060H	6m
8		1200281222	443030P82M003	0.3m	43	1200878280	443030E02M010G	1m	78	1200878358	444030P02M006	0.6m	113	1200878665	444030E02M005H	0.5m
9		1200281282	443030E02M025	2.5m	44	1200878281	443030E02M012G	1.2m	79	1200878359	444030P02M010	1m	114	1200878666	444030E02M025H	2.5m
10		1200281284	444030E02M015	1.5m	45	1200878282	443030I02M003	0.3m	80	1200878360	444030P02M020	2m	115	1200878671	443030E02M080H	8m
11		1200281309	445030P02M010	1m	46	1200878283	443030I02M015	1.5m	81	1200878361	444030P02M030	3m	116	1200878689	443030E02M015H	1.5m
12		1200281310	445030P02M050	5m	47	1200878284	443030I02M020	2m	82	1200878362	444030P02M050	5m	117	1200878692	444030E02M010H	1m
13		1200870687	445030P02M006	0.6m	48	1200878285	443030I02M030	3m	83	1200878494	443030E02M070	7m	118	1200878693	444030E02M020H	2m
14		1200870688	445030P02M030	3m	49	1200878286	443030I02M040	4m	84	1200878495	444030H08M010	1m	119	1200878699	443030H08M055H	5.5m
15		1200875035	443030E02M006	0.6m	50	1200878287	443030I02M050	5m	85	1200878500	443030H08M010	1m	120	1200878808	443030H08M065H	6.5m
16		1200878025	443030P82M006	0.6m	51	1200878288	443030I02M060	6m	86	1200878509	444030H08M050	5m	121	1200878809	443030E02M0039H	0.3m
17		1200878035	445030P02M020	2m	52	1200878289	443030I02M070	7m	87	1200878535	443030E02M020Y	2m	122	1200878810	444030E02M0069H	0.6m
18		1200878036	445030P02M040	4m	53	1200878290	443030I02M100	10m	88	1200878536	443030E02M050Y	5m	123	1200878811	444030E02M0309H	3m
19		1200878037	445030P02M100	10m	54	1200878291	443030I02M150	15m	89	1200878537	443030E02M040Y	4m	124	1200878812	444030P02M100	10m
20		1200878124	444030H08M003	0.3m	55	1200878292	443030P02M003	0.3m	90	1200878538	443030E02M006Y	0.6m	125	1200878828	444030E02M0109H	1m
21		1200878126	443030H08M030	3m	56	1200878293	443030P02M015	1.5m	91	1200878539	443030H08M050Y	5m	126	1200878834	443030E02M1009H	10m
22		1200878127	443030H08M050	5m	57	1200878294	443030P02M020	2m	92	1200878540	443030H08M020Y	2m	127	1200878843	444030H08M100	10m
23		1200878139	445030P02M250	25m	58	1200878295	443030P02M025	2.5m	93	1200878541	443030E02M010Y	1m	128	1200878844	444030H08M250	25m
24		1200878140	443030P02M010	1m	59	1200878296	443030P02M030	3m	94	1200878558	443030H08M006	0.6m	129	1200878847	445030H08M006	0.6m
25		1200878141	443030P02M006	0.6m	60	1200878297	443030P02M030G	3m	95	1200878559	444030H08M006	0.6m	130	1200878850	443030E02M0159H	1.5m
26		1200878149	443030H08M020	2m	61	1200878298	443030P02M035	3.5m	96	1200878574	444030E02M003H	0.3m	131	1200878923	443030E02M1509H	15m
27		1200878161	444030E02M200	20m	62	1200878299	443030P02M040	4m	97	1200878575	444030E02M030H	3m	132	1200878941	444030H08M030	3m
28		1200878166	443030H08M040	4m	63	1200878300	443030P02M060	6m	98	1200878576	443030E02M003H	0.3m	133	1200878946	445030H08M020	2m
29		1200878233	443030P02M050	5m	64	1200878301	443030P02M070	7m	99	1200878577	444030E02M006H	0.6m	134	1200878947	445030H08M050	5m
30		1200878234	443030P02M100	10m	65	1200878302	443030P02M150	15m	100	1200878596	443030P02M010H	1m	135	1200878950	445030E02M010	1m
31		1200878239	445030E02M006	0.6m	66	1200878346	444030E02M003	0.3m	101	1200878626	443030H08M080	8m	136	1200878951	444030H08C350	0.35m
32		1200878240	445030E02M020	2m	67	1200878347	444030E02M005	0.5m	102	1200878627	445030H08M040	4m	137	1200878952	444030H08C750	0.75m
33		1200878241	445030E02M050	5m	68	1200878348	444030E02M006	0.6m	103	1200878635	443030E02M080	8m	138	1200878978	443030H08M100	10m
34		1200878258	443030E02M010	1m	69	1200878349	444030E02M010	1m	104	1200878636	443030H08M055	5.5m	139	1200888155	445030H70M020	2m
35		1200878272	443030E02M002G	0.2m	70	1200878350	444030E02M020	2m	105	1200878642	443030E02M006H	0.6m	140	1200878982	443030H08M003H	0.3m

No.	Molex PN	Engineering No.	Cable Length
141	1200878983	443030H08M015H	1.5m
142	1200878984	443030H08M045H	4.5m
143	1200878985	443030H08M065	6.5m
144	1200878986	443030H08M075H	7.5m
145	1200878987	444030H08M015H	1.5m
146	1200878988	444030H08M025H	2.5m
147	1200878998	443030H08M030H	3m
148	1200878999	443030H08M050H	5m
149	1200879001	443030H08M040H	4m
150	1200878997	444030H08M003H	0.3m

No.	Molex PN	Engineering No.	Cable Length
151	1200879003	444030H08M020H	2m
152	1200879004	444030H08M010H	1m
153	1200879007	444030H08M006H	0.6m
154	1200879010	444030H08M030H	3m
155	1200879035	443030H08M006H	0.6m
156	1200879036	443030H08M010H	1m
157	1200879037	443030H08M025H	2.5m
158	1200879050	443030H08M080H	8m
159	1200879052	444030H08M035H	3.5m
160	1200879053	444030H08M040H	4m
161	1200879054	444030H08M050H	5m

FUNCTIONAL SYMBOLS	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: PACKAGING SPEC ADDED					molex				
	mm		2:1											
	GENERAL TOLERANCES (UNLESS SPECIFIED)													
	ANGULAR TOL		± 1.0 °		EC NO: 770174 DRWN: RSCHIEBER 2023/10/18 CHK'D: RSILLER 2023/11/30 APPR: RSILLER 2023/11/30 INITIAL REVISION: DRWN: JMARSZALEK 2016/09/15 APPR: RSILLER 2017/01/11					CSE M8 M8 XP AC BC FE STR MA STR XM				
	4 PLACES		±											
	3 PLACES		±											
	2 PLACES		± 0.05											
	DIVISIONAL SYMBOLS	1 PLACE		± 0.3		DOCUMENT NUMBER					1200878240			
		0 PLACES		± 0.5										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING										
				A3-SIZE		120087		SEE PART LIST		GENERAL MARKET		3 OF 4		

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/30	13:31:02
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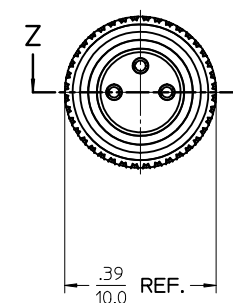
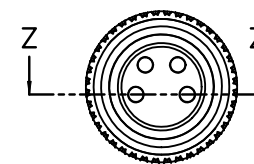
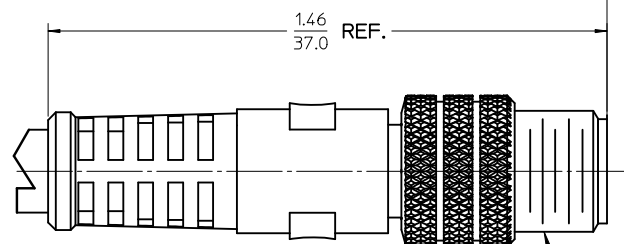
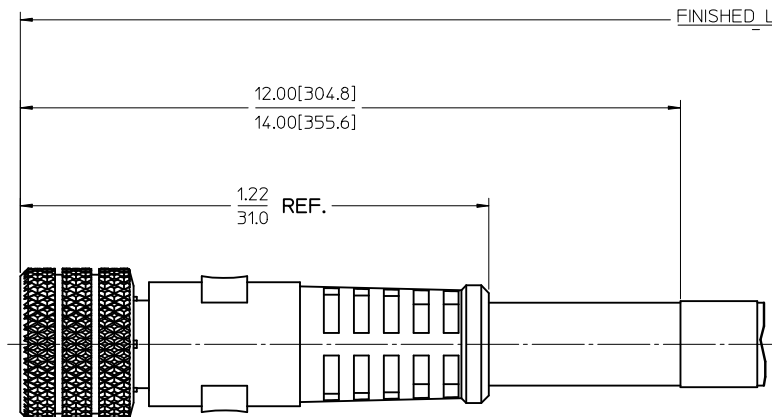
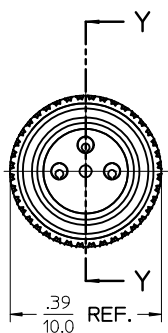
No.	Molex PN	Engineering No.	Cable Length
141	1200878983	443030H08M015H	1.5m
142	1200878984	443030H08M045H	4.5m
143	1200878985	443030H08M065	6.5m
144	1200878986	443030H08M075H	7.5m
145	1200878987	444030H08M015H	1.5m
146	1200878988	444030H08M025H	2.5m
147	1200878998	443030H08M030H	3m
148	1200878999	443030H08M050H	5m
149	1200879001	443030H08M040H	4m
150	1200878997	444030H08M003H	0.3m

No.	Molex PN	Engineering No.	Cable Length
151	1200879003	444030H08M020H	2m
152	1200879004	444030H08M010H	1m
153	1200879007	444030H08M006H	0.6m
154	1200879010	444030H08M030H	3m
155	1200879035	443030H08M006H	0.6m
156	1200879036	443030H08M010H	1m
157	1200879037	443030H08M025H	2.5m
158	1200879050	443030H08M080H	8m
159	1200879052	444030H08M035H	3.5m
160	1200879053	444030H08M040H	4m
161	1200879054	444030H08M050H	5m

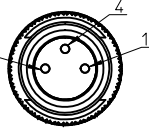
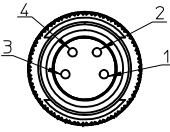
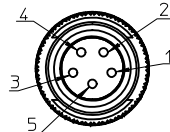
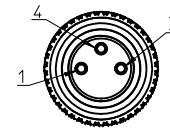
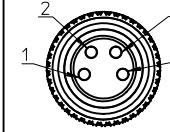
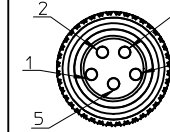
FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
	DIMENSION UNITS		SCALE		CURRENT REV DESC: PACKAGING SPEC ADDED					molex				
	mm		2:1											
	GENERAL TOLERANCES (UNLESS SPECIFIED)													
	ANGULAR TOL		± 1.0 °		EC NO: 770174 DRWN: RSCHIEBER 2023/10/18 CHK'D: RSILLER 2023/11/30 APPR: RSILLER 2023/11/30 INITIAL REVISION: DRWN: JMARSZALEK 2016/09/15 APPR: RSILLER 2017/01/11					CSE M8 M8 XP AC BC FE STR MA STR XM				
	4 PLACES		±											
	3 PLACES		±											
	2 PLACES		± 0.05											
	DIVISIONAL SYMBOLS	1 PLACE		± 0.3		DOCUMENT NUMBER					1200878240			
		0 PLACES		± 0.5										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING										
				A3-SIZE		120087		SEE PART LIST		GENERAL MARKET		3 OF 4		

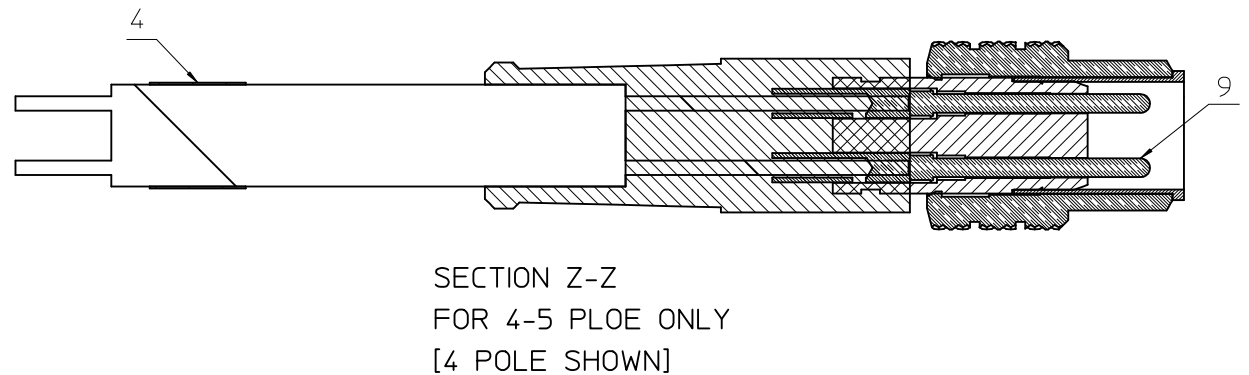
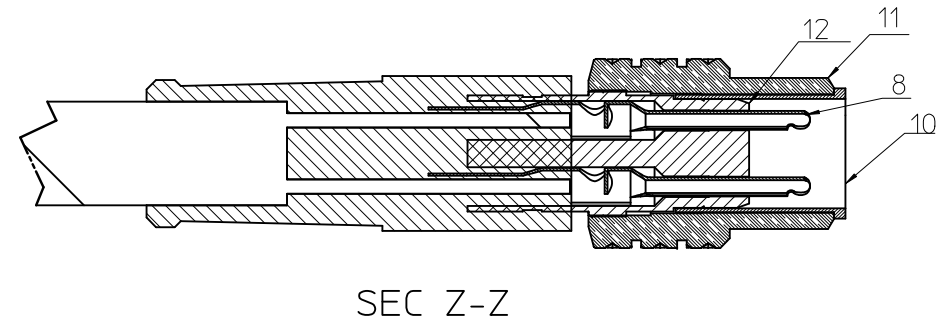
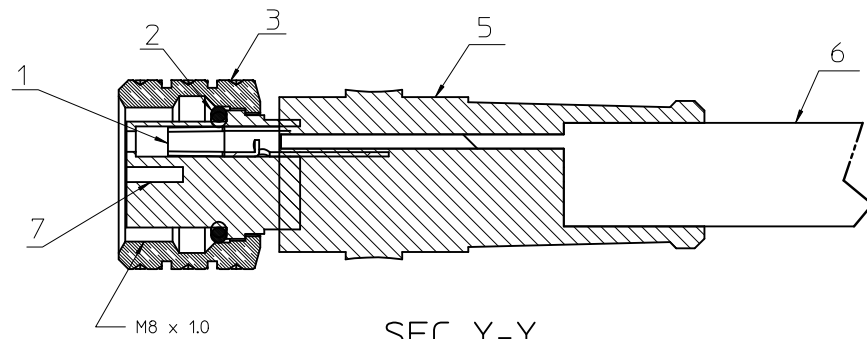
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10	9	8	7	6	5	4	3	2	1
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ENTER DESCRIPTION EC NO: WEU2012-0001 DRWN:RSCHIEBER 2011/07/06 CHKD:REISSNER 2011/07/13 APPR:CBURGER 2011/07/20			DESCRIPTION	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 4:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
							DRAWN BY DATE		TITLE CSE M8 XP MA FE STR PUR PVC UN				
							CHECKED BY DATE						
							APPROVED BY DATE						
REV B			DESCRIPTION	QUALITY SYMBOLS	mm INCH		BWOODMAN 18/08/09		MOLEX MOLEX INCORPORATED				
					4 PLACES ± --- ± ---		RSTONE 18/08/09						
					3 PLACES ± --- ± ---		JFMURPHY 18/08/09						
					2 PLACES ± --- ± .01		MATERIAL NO.						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DESCRIPTION	QUALITY SYMBOLS	1 PLACE ± 0.3 ± ---		APPROVED BY DATE		DOCUMENT NO.		SHEET NO.		
					ANGULAR ±1/2°		JFMURPHY 18/08/09		SD-120028-001		1 OF 3		
							SEE SHEET 3						
			REV	DESCRIPTION		SIZE C		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					

13	12	11	10	9	8	7	6	5	4	3	2	1
FEMALE INSERT FRONT VIEW				MALE INSERT FRONT VIEW								
3 POLE	4 POLE	5 POLE		3 POLE	4 POLE	5 POLE						
												
1 BROWN 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY		1 BROWN 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GREY						



ENTER DESCRIPTION		QUALITY SYMBOLS		GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION	
EC NO: WEU2012-0001		 			IN/MM		DRAWN BY	DATE	5:1	INCH	 THIRD ANGLE PROJECTION
2011/07/06			4 PLACES	± ---	± ---	BWOODMAN	18/08/09	TITLE			
CHKDREISSNER			3 PLACES	± ---	± ---	CHECKED BY	DATE				
2011/07/13			2 PLACES	± ---	± .01	RSTONE	18/08/09				
APPR:CBURGER			1 PLACE	± 0.3	± ---	APPROVED BY	DATE				
REV				ANGULAR ±1/2°		JFMURPHY	18/08/09	 MOLEX INCORPORATED			
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE SHEET 3		DOCUMENT NO. SD-120028-001		SHEET NO. 2 OF 3	
						SIZE		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			

	13	12	11	10	9	8	7	6	5	4	3	2	1			
J											FEMALE INSERT ASSEMBLY			MALE INSERT ASSEMBLY		
											3 POLE	4 POLE	5 POLE	3 POLE	4 POLE	5 POLE
I											QTY			QTY		
											3	4	5			
											1	1	1			
H											1	1	1	1	1	1
											1			1		
											1			1		
												1			1	
													1			1
G											1					
												1				
													1			
F														3		
															4	5
														1	1	1
														1	1	1
														1		
E															1	
																1
D											SPECIFICATION					
C																