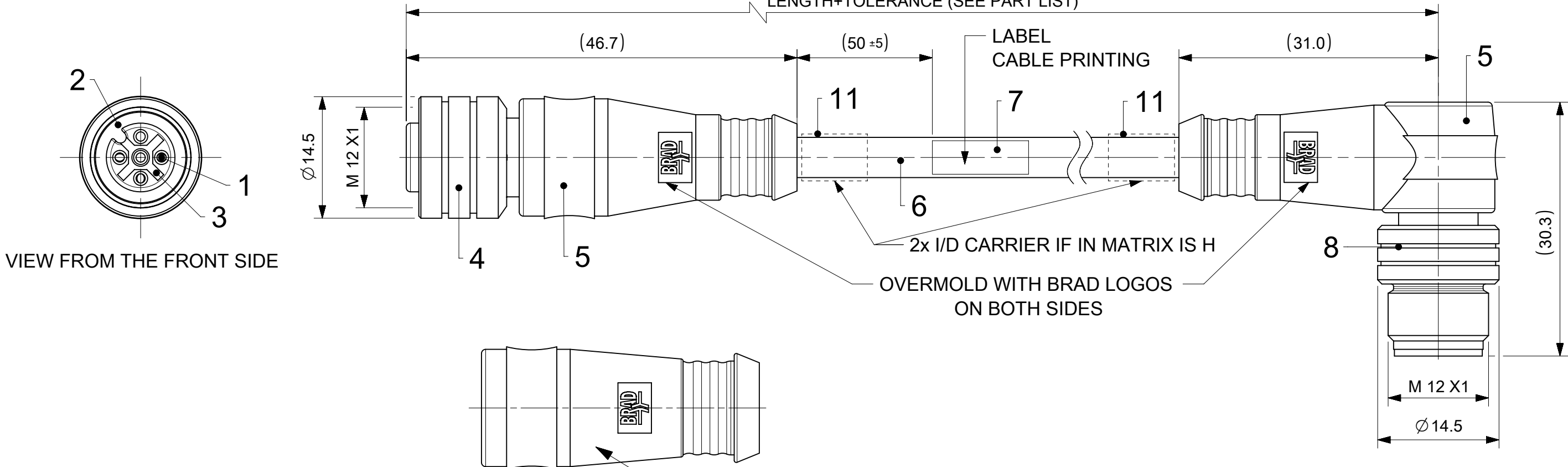


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 90° ANGLED

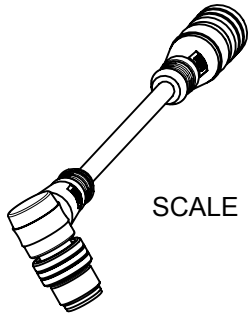


TECHNICAL SPECIFICATION:
CONTACT CURRENT RATING: 3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING: 3-4 POLES 250V
5 POLES 60V DC
8 POLES 30V
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

BILL OF MATERIAL

11	2 (SEE MATRIX)	ID CARRIER	PVC	TRANSPARENT
10	1	INSERT MALE	PUR	BLACK
9	3/4/5/8	CONTACT M12 MALE	BRASS	SELECTIVE GOLD OVER NICKEL
8	1	COUPLING NUT MALE	BRASS	NICKEL
7	1	LABEL	VINYL	YELLOW
6	-	CABLE	SEE MATRIX/ CABLE SPECIFICATION	---
5	-	OVERMOULD	TPU	SEE MATRIX
4	1	COUPLING NUT FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE	PUR	BLACK
2	1	O-RING	FPM	RED
1	3/4/5/8	CONTACT M12 FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR

DOCUMENT STATUS	P1	RELEASE DATE	2021/11/23	16:25:48
-----------------	----	--------------	------------	----------

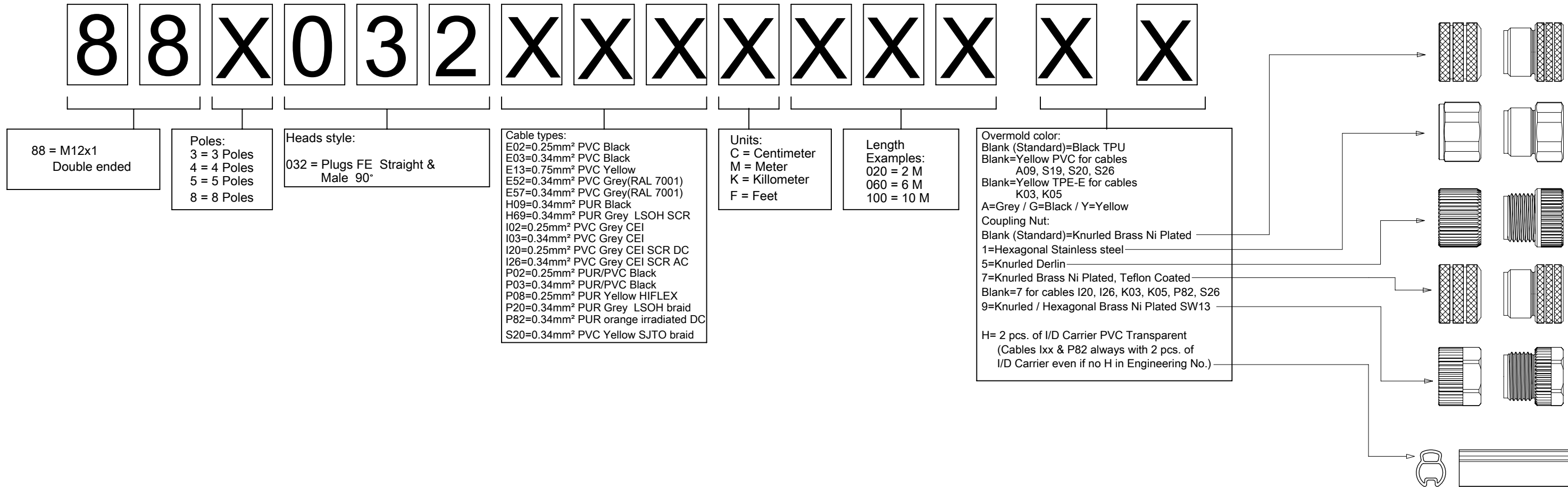


FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
	DIMENSION UNITS		SCALE		CURRENT REV DESC: 8 POLE VERSION AND NEW P/N'S ADDED			molex						
	mm		2:1											
	GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR MA RA XM									
	ANGULAR TOL ± 1.0 °													
	4 PLACES		±		EC NO: 686239			2021/11/15						
	3 PLACES		±		DRWN: RSCHIEBER									
	2 PLACES		± 0.05		CHK'D: RSILLER						2021/11/23			
	DIVISIONAL SYMBOLS	1 PLACE		± 0.3		APPR: RSILLER			2021/11/23					
		0 PLACES		± 0.5		INITIAL REVISION:			DOCUMENT NUMBER					
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: DSOPPIN 2018/09/27										
				APPR: RSILLER 2018/10/22			1200070026							
				THIRD ANGLE PROJECTION			DOC TYPE		DOC PART		REVISION			
							PSD		000		A4			
				DRAWING			SHEET NUMBER							
				A3-SIZE			120007		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
									SEE PART LIST		GENERAL MARKET		1 OF 4	

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

SPECIAL TYPES

COUPLING NUT
FEMALE MALE

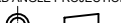


CABLE SPECIFICATION

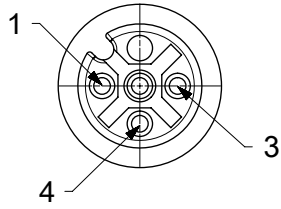
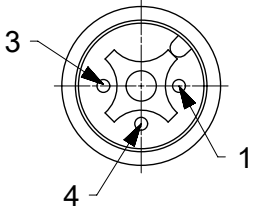
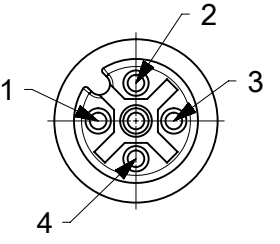
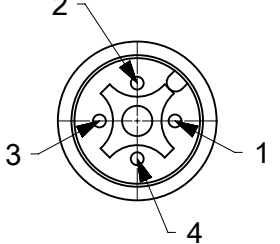
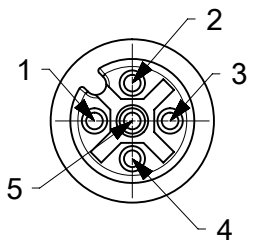
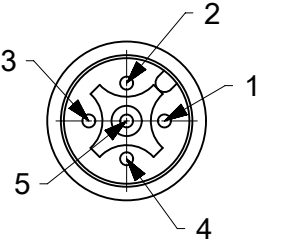
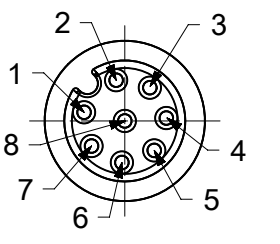
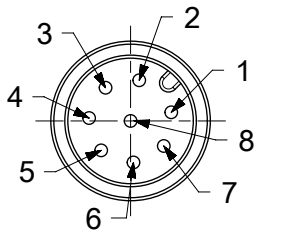
CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 / 4 / 5 / 8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E52	4	0.34mm²	PVC GRAY	-	-	- 30 to + 70°C	- 5 to + 70°C	-	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LSOH	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	-
H69	4	0.2mm²	PUR LSOH	-	-	-	-40°C to +80°C	-	-
P02	3 / 4 / 5 / 8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
P82	4	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C,	-50°C to +105°C,	-	-
I03	4	0.34mm²	PVC GRAY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
K03	4	AWG18	TPE YELLOW	ITC E195601 OR PLTC	AWM I/II A/B FT4 LL54185	-	-40°C to +105°C	-	-
K05	4	0.34mm²	TPE YELLOW	ITC E195601 OR PLTC	AWM I/II A/B FT4 LL54185	-	-40°C to +105°C	-	-
S20	4	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 AWM II	-30°C to +105°C	-40°C to +105°C	-	-

CABLE LENGTH TOLERANCE

OVER	UPTO AND INCULDING	TOLERANCE
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION															
F A = 0 F C = 0 F E = 0		DIMENSION UNITS mm		SCALE 1:1		CURRENT REV DESC: 8 POLE VERSION AND NEW P/N'S ADDED			molex CSE M12 XP AC FE STR MA RA XM								
GENERAL TOLERANCES (UNLESS SPECIFIED)																	
		ANGULAR TOL ± 1.0°				EC NO: 686239											
DIVISIONAL SYMBOLS		4 PLACES ±				DRWN: RSCHIEBER 2021/11/15			PRODUCT CUSTOMER DRAWING								
		3 PLACES ±				CHK'D: RSILLER 2021/11/23											
		2 PLACES ± 0.05				APPR: RSILLER 2021/11/23											
		1 PLACE ± 0.3				INITIAL REVISION: DRWN: DSOPPIN 2018/09/27 APPR: RSILLER 2018/10/22											
		0 PLACES ± 0.5															
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER 1200070026		DOC TYPE PSD		DOC PART 000		REVISION A4	
						A3-SIZE		120007		MATERIAL NUMBER SEE PART LIST		CUSTOMER GENERAL MARKET		SHEET NUMBER 2 OF 4			

CONTACT POSITION FRONT VIEW:

3 POLES FEMALE		3 POLES MALE		4 POLES FEMALE		4 POLES MALE		5 POLES FEMALE		5 POLES MALE		8 POLES FEMALE		8 POLES MALE	
															
PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	WHITE	1	WHITE
2	-	2	-	2	WHITE	2	WHITE	2	WHITE	2	WHITE	2	BROWN	2	BROWN
3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	GREEN	3	GREEN
4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	BLACK	4	YELLOW	4	YELLOW
5	-	5	-	5	-	5	-	5	GREY OR GREEN/YELLOW	5	GREY OR GREEN/YELLOW	5	GREY	5	GREY
CODING REQUIRED TO IEC 61076-2-101				CODING REQUIRED TO IEC 61076-2-101				CODING REQUIRED TO IEC 61076-2-101				6	PINK	6	PINK
												7	BLUE	7	BLUE
												8	RED	8	RED
												CODING REQUIRED TO IEC 61076-2-101			

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: 8 POLE VERSION AND NEW P/N'S ADDED				molex						
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)								CSE M12 XP AC FE STR MARA XM						
ANGULAR TOL ± 1.0 °				EC NO: 686239				PRODUCT CUSTOMER DRAWING							
4 PLACES ±				DRWN: RSCHIEBER 2021/11/15											
3 PLACES ±				CHK'D: RSILLER 2021/11/23											
2 PLACES ± 0.05				APPR: RSILLER 2021/11/23											
1 PLACE ± 0.3				INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION			
0 PLACES ± 0.5				DRWN: DSOPPIN 2018/09/27				1200070026		PSD	000	A4			
				APPR: RSILLER 2018/10/22											
DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		120007		SEE PART LIST		GENERAL MARKET		3 OF 4	

	10	9	8	7	6	5	4	3	2	1	
F	PART LIST										F
	NO.	MOLEX PN	ENGINEERING PN	LENGTH (mm)	NO.	MOLEX PN	ENGINEERING PN	LENGTH (mm)			
	1	1200070158	883032E03M003	300	52	1200661017	884032K03M050	5000			
	2	1200070159	883032E03M006	600	53	1200661018	884032K03M060	6000			
	3	1200070160	883032E03M010	1000	54	1200661021	884032K03M090	9000			
	4	1200070161	883032E03M020	2000	55	1200661022	884032K03M100	10000			
	5	1200668205	883032E03M050	5000	56	1200661023	884032K03M120	12000			
	6	1200072378	883032E03M060	6000	57	1200661480	884032K03M200	20000			
	7	1200668053	883032E03M100	10000	58	1200660398	884032K05M005	500			
	8	1200668268	883032E03M200	20000	59	1200660400	884032K05M010	1000			
E	9	1200072879	883032H09M010	1000	60	1200660401	884032K05M015	1500			
	10	1200070166	883032I03M006	600	61	1200660402	884032K05M020	2000			
	11	1200668007	883032I03M010	1000	62	1200660403	884032K05M030	3000			
	12	1200070171	883032P03M006	600	63	1200073045	884032K05M035	3500			
	13	1200070172	883032P03M010	1000	64	1200660404	884032K05M040	4000			
	14	1200070173	883032P03M020	2000	65	1200660405	884032K05M050	5000			
	15	1200070174	883032P03M030	3000	66	1200660406	884032K05M060	6000			
	16	1200072294	883032P03M0305	3000	67	1200073042	884032K05M070	7000			
	17	1200668341	883032P03M050	5000	68	1200661540	884032K05M080	8000			
	18	1200668763	883032P03M0501	5000	69	1200668345	884032P03M002G	200			
D	19	1200072705	883032P03M060	6000	70	1200072838	884032P03M003	300			
	20	1200070184	883032S20M010	1000	71	1200071519	884032P03M006	600			
	21	1200070185	883032S20M020	2000	72	1200071407	884032P03M010	1000			
	22	1200668663	884032E02M050	5000	73	1200070547	884032P03M0105	1000			
	23	1200668072	884032E03M006	600	74	1200669261	884032P03M015	1500			
	24	1200668073	884032E03M010	1000	75	1200070026	884032P03M020	2000			
	25	1200668755	884032E03M012	1200	76	1200071520	884032P03M030	3000			
	26	1200668756	884032E03M014	1400	77	1200070914	884032P03M050	5000			
	27	1200665032	884032E03M020	2000	78	1200072213	884032P03M1005	10000			
	28	1200071014	884032E03M030	3000	79	1200668077	884032P82M0037	300			
C	29	1200072163	884032E03M0501	5000	80	1200668343	884032P82M0067	600			
	30	1200668075	884032E03M100	10000	81	1200668267	884032P82M0107	1000			
	31	1200668200	884032E03M1001	10000	82	1200668282	884032P82M0157	1500			
	32	1200668307	884032E03M1005	10000	83	1200668078	884032P82M0207	2000			
	33	1200668309	884032E03M1205	12000	84	1200668177	884032S20M020	2000			
	34	1200668173	884032E03M1501	15000	85	1200668161	884032S20M030	3000			
	35	1200668223	884032E03M200	20000	86	1200070907	884032S20M050	5000			
	36	1200668308	884032E03M2005	20000	87	1200668974	885032E03M003	300			
	37	1200071277	884032E52M010A	1000	88	1200668979	885032E03M006	600			
	38	1200070841	884032E52M020A	2000	89	1200071271	885032E03M010	1000			
B	39	1200668494	884032H09M010	1000	90	1200668092	885032E03M020	2000			
	40	1200668290	884032H09M020	2000	91	1200668975	885032E03M025	2500			
	41	1200668311	884032H69M010	1000	92	1200668976	885032E03M030	3000			
	42	1200668076	884032H69M030	3000	93	1200668977	885032E03M050	5000			
	43	1200668312	884032H69M050	5000	94	1200668978	885032E03M100	10000			
	44	1200665040	884032H69M100	10000	95	1200668493	885032H09M010	1000			
	45	1200072424	884032I03M003	300	96	1200668603	885032P03M020G	2000			
	46	1200668522	884032I03M020	2000	97	1200661925	885032P03M080	8000			
	47	1200661012	884032K03M006	600	98	1200661926	885032P03M100	10000			
	48	1200661013	884032K03M010	1000	99	1200669119	885032P03M190	19000			
A	49	1200661014	884032K03M020	2000	100	1200669767	888032E02M0201	2000			
	50	1200661015	884032K03M030	3000	101	1200669768	888032E02M0301	3000			
	51	1200661598	884032K03M036	3600	102	1200669769	888032E02M0501	5000			
DOCUMENT STATUS P1 RELEASE DATE 2021/11/23 16:25:48											
	10	9	8	7	6	5	4	3	2	1	

FUNCTIONAL SYMBOLS

= 0

= 0

= 0

DIVISIONAL SYMBOLS

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

DIMENSION UNITS

mm

SCALE

1:1

CURRENT REV DESC: 8 POLE VERSION AND NEW P/N'S ADDED

EC NO: 686239

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2021/11/15

2021/11/23

2021/11/23

INITIAL REVISION:

DRWN: DSOPPIN

APPR: RSILLER

2018/09/27

2018/10/22

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120007

DOCUMENT NUMBER

1200070026

DOC TYPE

PSD

DOC PART

000

REVISION

A4

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

4 OF 4

CSE M12 XP AC FE STR MA RA XM

PRODUCT CUSTOMER DRAWING

1200070026

PSD

000

A4

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Molex:

[1200661925](#) [1200661926](#) [1200669119](#)