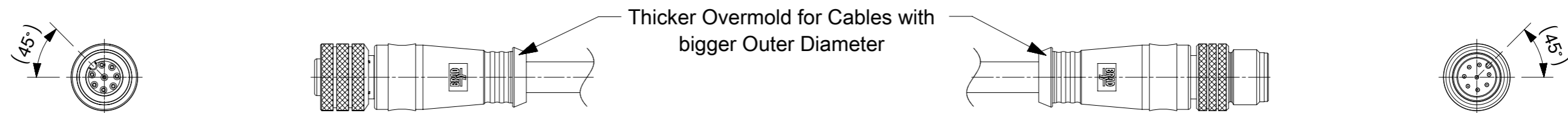
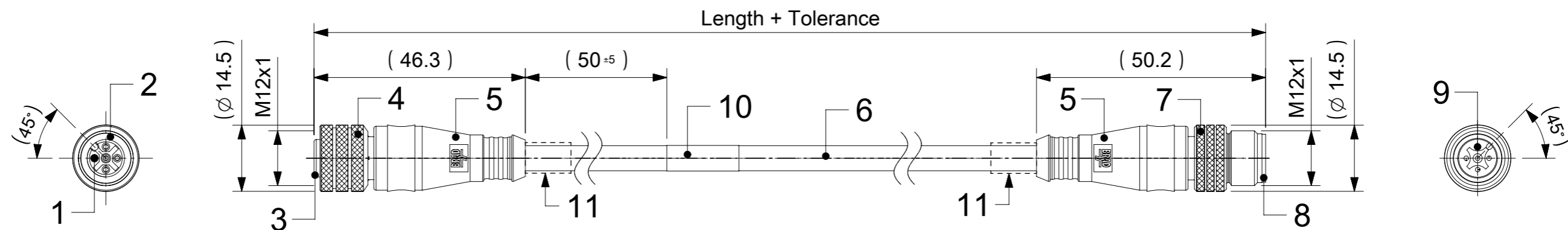


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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

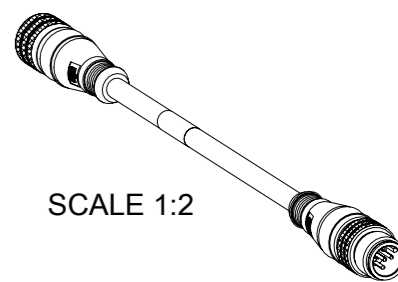
PROTECTION CLASS: IP 67

TEMPERATURE: -25°C / +85°C

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
						8	RED	

CODING REQUIRED TO IEC 61076-2-101



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	SEE SHEET 2	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	TPU	---
7	1	COUPLING NUT MALE	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	---	---
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE Au OVER Ni

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC: PART LIST REVISED		molex	
	GENERAL TOLERANCES (UNLESS SPECIFIED)	EC NO: 784475			
	ANGULAR TOL ± 1.0°	4 PLACES ±	DRWN: RSCHIEBER	2024/04/16	
	4 PLACES ±	3 PLACES ±	CHK'D: RSILLER	2024/04/26	
DIVISIONAL SYMBOLS	2 PLACES ± 0.05	APPR: RSILLER	2024/04/26	PRODUCT CUSTOMER DRAWING	
	1 PLACE ± 0.3	INITIAL REVISION:		DOCUMENT NUMBER	DOC TYPE
	0 PLACES ± 0.5	DRWN: JMARSZALEK	2016/09/19	1200668165	PSD
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	APPR: RSILLER	2016/12/08	000	A7
THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
		A3-SIZE	120066	SEE PART LIST	GENERAL MARKET
					SHEET NUMBER
					1 OF 5

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

8 8 X 0 3 0 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:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter

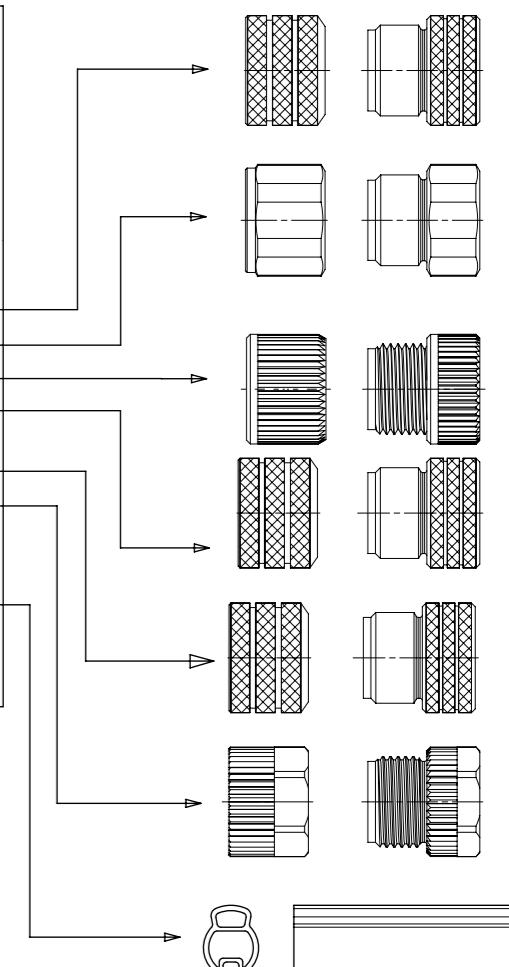
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

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

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow PVC for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

COUPLING NUT
FEMALE MALE




CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF FINISHED LENGTH

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: PART LIST REVISED			
	$\nabla_A = 0$ $\nabla_E = 0$ $\nabla_F = 0$	DIMENSION UNITS: mm SCALE: 1:1	GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL $\pm 1.0^\circ$			EC NO: 784475 DRWN: RSCHIEBER 2024/04/16 CHK'D: RSILLER 2024/04/26 APPR: RSILLER 2024/04/26
DIVISIONAL SYMBOLS	4 PLACES \pm	3 PLACES \pm	2 PLACES ± 0.05	1 PLACE ± 0.3	0 PLACES ± 0.5	PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER: 1200668165 DOC TYPE: PSD DOC PART: 000 REVISION: A7
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING: A3-SIZE	SERIES: 120066	MATERIAL NUMBER: SEE PART LIST CUSTOMER: GENERAL MARKET SHEET NUMBER: 2 OF 5

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
A09	4	22AWG	PVC YELLOW	UL 2661	I/II A/B 80°C/300V	-	-	-	-
B02	4	18AWG	PUR YELLOW	UL 20549	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4	0.34mm ²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E57	5	0.34mm ²	PVC GREY	-	-	-	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm ²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm ²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm ²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
K03	4 / 5	18AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	2 000 000 cycles, >15xO.D.	-
P20	3 / 4 / 5	0.34mm ²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm ²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S19	8	0.25mm ²	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.	2 000 000 cycles, >15xO.D.	YES
S20	3 / 4 / 5	0.34mm ²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm ²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		CURRENT REV DESC: PART LIST REVISED					
	$\nabla_A = 0$ $\nabla_F = 0$ $\nabla_V = 0$	DIMENSION UNITS mm						SCALE 1:1
DIVISIONAL SYMBOLS	GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 784475		CSE M12 XP AC FE STR MA STR XM DE			
	ANGULAR TOL ± 1.0°		DRWN: RSCHIEBER 2024/04/16					
	4 PLACES ±		CHK'D: RSILLER 2024/04/26		PRODUCT CUSTOMER DRAWING			
	3 PLACES ±		APPR: RSILLER 2024/04/26					
	2 PLACES ± 0.05		INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE	DOC PART
1 PLACE ± 0.3		DRWN: JMARSZALEK 2016/09/19		1200668165		PSD	000	A7
0 PLACES ± 0.5		APPR: RSILLER 2016/12/08		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING	SERIES	GENERAL MARKET		3 OF 5

PART LIST

Part No.	Engineering No.	Cable Length
A09		
1200660166	883030A09M010	1m
1200660261	884030A09M005	0.5m
1200660262	884030A09M006	0.6m
1200660266	884030A09M010	1m
1200660269	884030A09M015	1.5m
1200660271	884030A09M020	2m
1200660273	884030A09M0208	2m
1200660277	884030A09M030	3m
1200669113	884030A09M0308	3m
1200660286	884030A09M0508	5m
1200660291	884030A09M070	7m
1200660294	884030A09M080	8m
1200660299	884030A09M1008	10m
1200660434	885030A09M050	5m
B02		
1200660857	884030B02M020	2m
1200660860	884030B02M030	3m
1200660862	884030B02M050	5m
1200660867	884030B02M100	10m
E52		
1200071343	883030E52M003A	0.3m
1200070956	883030E52M020A	2m
1200071026	884030E52M010A	1m
1200661434	884030E52M020A	2m
1200071624	884030E52M030A	3m
1200661472	884030E52M050A	5m
1200070867	884030E52M100A	10m
1200070653	884030E52M200A	20m
E57		
1200668081	885030E57M100A	10m
I03		
1200070095	883030I03M003	0.3m
1200070096	883030I03M006	0.6m
1200070097	883030I03M010	1m
1200669149	883030I03M010Y	1m
1200070098	883030I03M020	2m
1200668632	883030I03M020Y	2m
1200070099	883030I03M030	3m
1200668633	883030I03M030Y	3m
1200668371	883030I03M040	4m
1200070100	883030I03M050	5m
1200668634	883030I03M050Y	5m
1200070101	883030I03M100	10m
1200070774	884030I03M006	0.6m

Part No.	Engineering No.	Cable Length
I03		
1200070480	884030I03M010	1m
1200070481	884030I03M020	2m
1200668637	884030I03M020Y	2m
1200071627	884030I03M0205	2m
1200070785	884030I03M030	3m
1200668372	884030I03M040	4m
1200070483	884030I03M050	5m
1200070484	884030I03M060	6m
1200070485	884030I03M100	10m
1200668638	884030I03M100Y	10m
1200070961	885030I03M030	3m
1200668642	885030I03M030Y	3m
1200668165	885030I03M100	10m
1200669218	885030I03M100Y	10m
I20		
1200071338	884030I20M030	3m
I26		
1200072106	885030I26M005	0.5m
1200668082	885030I26M006	0.6m
1200070890	885030I26M010	1m
1200668639	885030I26M010Y	1m
1200072359	885030I26M015	1.5m
1200668736	885030I26M015Y	1.5m
1200070891	885030I26M020	2m
1200668640	885030I26M020Y	2m
1200668281	885030I26M025	2.5m
1200070892	885030I26M030	3m
1200668641	885030I26M030Y	3m
1200071279	885030I26M050	5m
1200668873	885030I26M050Y	5m
K03		
1200660878	884030K03M003	0.3m
1200668003	884030K03M005	0.5m
1200660880	884030K03M006	0.6m
1200660881	884030K03M010	1m
1200660883	884030K03M020	2m
1200660887	884030K03M030	3m
1200660891	884030K03M040	4m
1200660895	884030K03M050	5m
1200660898	884030K03M060	6m
1200660899	884030K03M070	7m
1200660900	884030K03M080	8m
1200660901	884030K03M090	9m
1200660902	884030K03M100	10m

Part No.	Engineering No.	Cable Length
K03		
1200668001	884030K03M110	11m
1200660904	884030K03M120	12m
1200660905	884030K03M140	14m
1200660906	884030K03M150	15m
1200660907	884030K03M160	16m
1200661543	884030K03M180	18m
1200660909	884030K03M200	20m
1200668004	884030K03M240	24m
1200660911	884030K03M250	25m
1200661906	884030K03M500	50m
1200661664	885030K03M005	0.5m
1200661034	885030K03M010	1m
1200661035	885030K03M020	2m
1200661036	885030K03M030	3m
1200661037	885030K03M040	4m
1200661038	885030K03M050	5m
1200661039	885030K03M060	6m
1200661041	885030K03M080	8m
1200661042	885030K03M090	9m
1200661043	885030K03M100	10m
1200661685	885030K03M120	12m
1200661490	885030K03M140	14m
1200661044	885030K03M150	15m
1200661686	885030K03M180	18m
1200661687	885030K03M230	23m
1200661684	885030K03M300	30m
K05		
1200660683	884030K05M003	0.3m
1200660684	884030K05M005	0.5m
1200660686	884030K05M006	0.6m
1200660687	884030K05M010	1m
1200660688	884030K05M015	1.5m
1200660689	884030K05M020	2m
1200660690	884030K05M030	3m
1200669948	884030K05M032	3.2m
1200660691	884030K05M040	4m

Part No.	Engineering No.	Cable Length
K05		
1200660692	884030K05M050	5m
1200668615	884030K05M050H	5m
1200660693	884030K05M060	6m
1200660915	884030K05M070	7m
1200660694	884030K05M080	8m
1200660695	884030K05M100	10m
1200668616	884030K05M100H	10m
1200660696	884030K05M120	12m
1200660918	884030K05M140	14m
1200660697	884030K05M150	15m
1200660698	884030K05M180	18m
1200661441	884030K05M190	19m
1200660921	884030K05M200	20m
1200660922	884030K05M210	21m
1200660699	884030K05M230	23m
1200661438	884030K05M250	25m
1200665368	884030K05M280	28m
1200660700	884030K05M300	30m
1200661649	884030K05M400	40m
1200669227	884030K05M500	50m
1200669228	884030K05M600	60m
P20		
1200668505	884030P20M010	1m
1200668506	884030P20M020	2m
1200668507	884030P20M050	5m
1200668508	884030P20M100	10m
P82		
1200668773	885030P82M0107	1m
1200665012	885030P82M0307	3m
S19		
1200661575	888030S19M030	3m
1200661576	888030S19M050	5m
1200661577	888030S19M100	10m
1200661574	888030S19M120	12m
S20		
1200668310	883030S20M005	0.5m

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION	CURRENT REV DESC: PART LIST REVISED		molex
	DIMENSION UNITS: mm SCALE: 1:1 GENERAL TOLERANCES (UNLESS SPECIFIED) ANGULAR TOL ± 1.0° 4 PLACES ± 3 PLACES ± 2 PLACES ± 0.05 1 PLACE ± 0.3 0 PLACES ± 0.5	EC NO: 784475 DRWN: RSCHIEBER 2024/04/16 CHK'D: RSILLER 2024/04/26 APPR: RSILLER 2024/04/26		
DIVISIONAL SYMBOLS	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	THIRD ANGLE PROJECTION	DRAWING	SERIES
			A3-SIZE	120066
DOCUMENT STATUS: P1 RELEASE DATE: 2024/04/26 08:14:50		MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
		1200668165	PSD 000	A7
		SEE PART LIST	GENERAL MARKET	4 OF 5

PART LIST

Part No.	Engineering No.	Cable Length
S20		
1200070110	883030S20M010	1m
1200070111	883030S20M020	2m
1200668172	883030S20M050	5m
1200071272	884030S20M005	0.5m
1200071237	884030S20M005H	0.5m
1200071178	884030S20M006H	0.6m
1200668068	884030S20M010	1m
1200071035	884030S20M010H	1m
1200071238	884030S20M015H	1.5m
1200070499	884030S20M020	2m
1200071141	884030S20M020H	2m
1200070500	884030S20M030	3m
1200071137	884030S20M030H	3m
1200071264	884030S20M040H	4m
1200070502	884030S20M050	5m
1200071188	884030S20M050H	5m
1200070023	884030S20M060H	6m
1200070504	884030S20M100	10m
1200071161	884030S20M100H	10m
S26		
1200070597	885030S26M010	1m
1200668090	885030S26M020H	2m

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		CURRENT REV DESC: PART LIST REVISED		molex			
	DIMENSION UNITS mm	SCALE 1:1	GENERAL TOLERANCES (UNLESS SPECIFIED)		CSE M12 XP AC FE STR MA STR XM DE			
	ANGULAR TOL ± 1.0°		4 PLACES ±		EC NO: 784475	2024/04/16		
	3 PLACES ±		2 PLACES ± 0.05		DRWN: RSCHIEBER	2024/04/26		
	1 PLACE ± 0.3		0 PLACES ± 0.5		CHK'D: RSILLER	2024/04/26		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 	DRAWING A3-SIZE	SERIES 120066	DOCUMENT NUMBER 1200668165	DOC TYPE PSD	DOC PART 000	REVISION A7
INITIAL REVISION:			MATERIAL NUMBER SEE PART LIST		CUSTOMER GENERAL MARKET		SHEET NUMBER 5 OF 5	