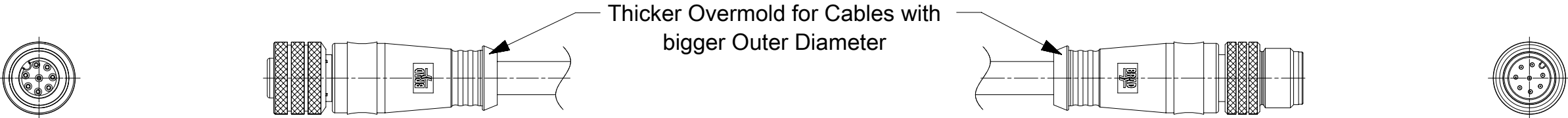
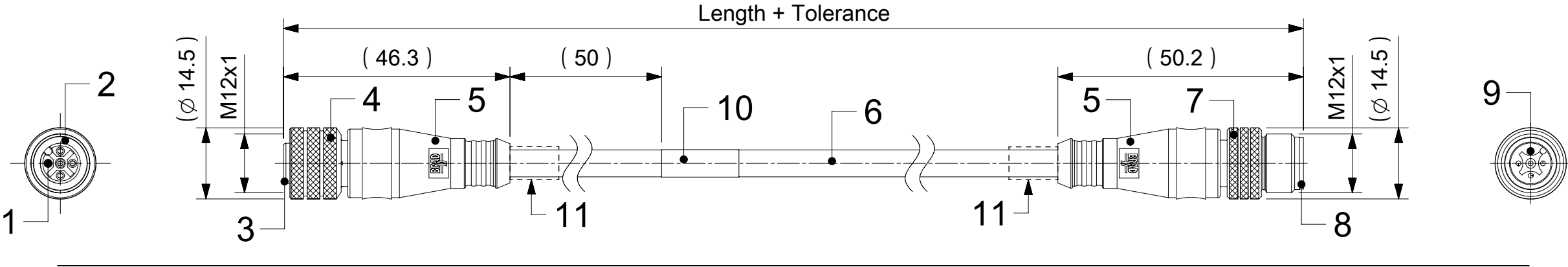


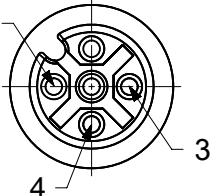
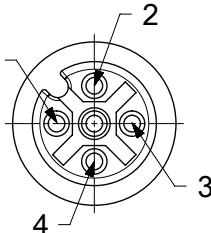
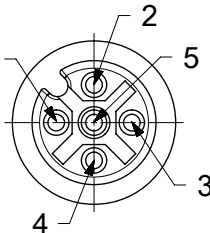
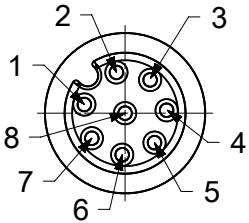
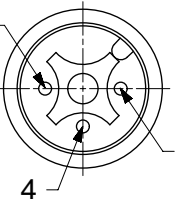
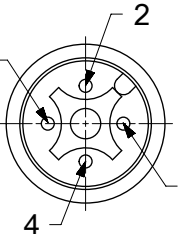
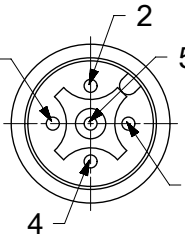
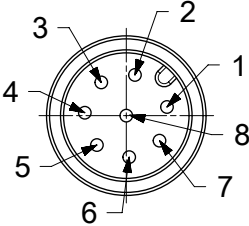
FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



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								

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

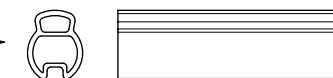
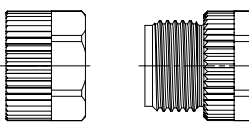
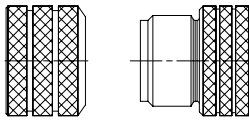
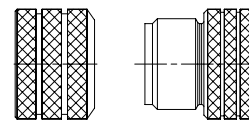
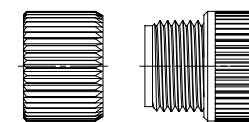
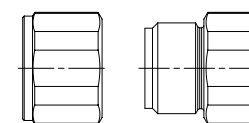
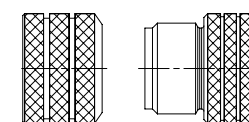
OPTIONS

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

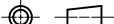
Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated _____
1=Hexagonal Stainless steel _____
5=Knurled Derlin _____
7=Knurled Brass Ni Plated, Teflon Coated _____
Blank=7 for cables I20, I26, K03, K05, P82, S26
8=Type 316 stainless steel _____
9=Knurled / Hexagonal Brass Ni Plated SW13 _____

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

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

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: OBSOLETE PART NUMBERS AS PER PCN#506884			molex						
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR MA STR XM DE									
ANGULAR TOL ± 1.0°													
4 PLACES		±		EC NO: 662770			PRODUCT CUSTOMER DRAWING						
3 PLACES		±		DRWN: SUGEEB 2021/02/23									
2 PLACES		± 0.05		CHK'D: GGA 2021/06/02									
1 PLACE		± 0.3		APPR: GGA 2021/06/02			DOCUMENT NUMBER						
0 PLACES		± 0.5		INITIAL REVISION:							1200668165		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER			
				A3-SIZE		120066		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
								SEE TABLE		GENERAL MARKET		2 OF 5	

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/02	05:45:39
-----------------	----	--------------	------------	----------

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	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E57	5	0.34mm²	PVC GREY	-	-	-	-5°C to +70°C	-	-
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	-	-
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 / 5	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 PLTC	I/II A/B 90°C/300V	max 105°C	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, >7.5xO.D.	-15°C to +90°C, >12.5xO.D.	-	-
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

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: OBSOLETED PART NUMBERS AS PER PCN#506884			molex CSE M12 XP AC FE STR MA STR XM DE PRODUCT CUSTOMER DRAWING					
mm		1:1										
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 662770 DRWN: SUGEEB CHK'D: GGA APPR: GGA						2021/02/23 2021/06/02 2021/06/02		
ANGULAR TOL		± 1.0 °										
4 PLACES		±										
3 PLACES		±										
2 PLACES		± 0.05										
1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK APPR: RSILLER			2016/09/19 2016/12/08					
0 PLACES		± 0.5										
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
				A3-SIZE	120066	SEE TABLE		GENERAL MARKET		3 OF 5		
								1200668165		PSD	000	A4

PART LIST															
No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
1	1200070023	884030S20M060H	6m	48	1200071238	884030S20M015H	1.5m	95	1200660887	884030K03M030	3m	133	1200665368	884030K05M280	28m
2	1200070095	883030I03M003	0.3m	49	1200071254	884030P82M050	5m	96	1200660891	884030K03M040	4m	134	1200668001	884030K03M110	11m
3	1200070096	883030I03M006	0.6m	50	1200071264	884030S20M040H	4m	97	1200660895	884030K03M050	5m	135	1200668003	884030K03M005	0.5m
4	1200070097	883030I03M010	1m	51	1200071272	884030S20M005	0.5m	98	1200660898	884030K03M060	6m	136	1200668004	884030K03M240	24m
5	1200070098	883030I03M020	2m	52	1200071279	885030I26M050	5m	99	1200660899	884030K03M070	7m	137	1200668067	884030P82M0507	5m
6	1200070099	883030I03M030	3m	53	1200071338	884030I20M030	3m	100	1200660900	884030K03M080	8m	138	1200668068	884030S20M010	1m
7	1200070100	883030I03M050	5m	54	1200071343	883030E52M003A	0.3m	101	1200660901	884030K03M090	9m	139	1200668082	885030I26M006	0.6m
8	1200070101	883030I03M100	10m	55	1200071428	884030P82M0407	4m	102	1200660902	884030K03M100	10m	140	1200668090	885030S26M020H	2m
9	1200070110	883030S20M010	1m	56	1200071501	884030P82M003	0.3m	103	1200660904	884030K03M120	12m	141	1200668098	888030P19M010	1m
10	1200070111	883030S20M020	2m	57	1200071580	884030P82M030	3m	104	1200660905	884030K03M140	14m	142	1200668099	888030P19M050	5m
11	1200070480	884030I03M010	1m	58	1200071582	884030P82M015	1.5m	105	1200660906	884030K03M150	15m	143	1200668165	885030I03M100	10m
12	1200070481	884030I03M020	2m	59	1200071624	884030E52M030A	3m	106	1200660907	884030K03M160	16m	144	1200668172	883030S20M050	5m
13	1200070483	884030I03M050	5m	60	1200071627	884030I03M0205	2m	107	1200660909	884030K03M200	20m	145	1200668187	884030P82M050H	5m
14	1200070484	884030I03M060	6m	61	1200071647	884030P82M0307	3m	108	1200660911	884030K03M250	25m	146	1200668252	888030P19M030	3m
15	1200070485	884030I03M100	10m	62	1200072106	885030I26M005	0.5m	109	1200660915	884030K05M070	7m	147	1200668281	885030I26M025	2.5m
16	1200070494	884030P82M0057	0.5m	63	1200072359	885030I26M015	1.5m	110	1200660918	884030K05M140	14m	148	1200668310	883030S20M005	0.5m
17	1200070499	884030S20M020	2m	64	1200072601	884030P82M0201	2m	111	1200660921	884030K05M200	20m	149	1200668349	884030P82M0101	1m
18	1200070500	884030S20M030	3m	65	1200660271	884030A09M020	2m	112	1200660922	884030K05M210	21m	150	1200668371	883030I03M040	4m
19	1200070502	884030S20M050	5m	66	1200660273	884030A09M0208	2m	113	1200661034	885030K03M010	1m	151	1200668372	884030I03M040	4m
20	1200070504	884030S20M100	10m	67	1200660277	884030A09M030	3m	114	120066						

9	8	7	6	5	4	3	2	1
---	---	---	---	---	---	---	---	---

PART LIST

No.	Part No.	Engineering No.	Cable Length
171	1200668735	884030P82M0707Y	7m
172	1200668736	885030I26M015Y	1.5m
173	1200668773	885030P82M0107	1m
174	1200668873	885030I26M050Y	5m
175	1200669113	884030A09M0308	3m
176	1200669118	884030P82M0307Y	3m
177	1200669149	883030I03M010Y	1m
178	1200669218	885030I03M100Y	10m
179	1200669227	884030K05M500	50m
180	1200669228	884030K05M600	60m
181	1200718014	884030P82M0607	6m
182	1200660166	883030A09M010	1m
183	1200660261	884030A09M005	0.5m
184	1200660262	884030A09M006	0.6m
185	1200660266	884030A09M010	1m
186	1200660269	884030A09M015	1.5m
187	1200660294	884030A09M080	8m
188	1200660299	884030A09M1008	10m
189	1200660434	885030A09M050	5m
190	1200661037	885030K03M040	4m
191	1200661039	885030K03M060	6m
192	1200661041	885030K03M080	8m
193	1200661684	885030K03M300	30m
194	1200661686	885030K03M180	18m
195	1200661687	885030K03M230	23m
196	1200668081	885030E57M100A	10m

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

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

CURRENT REV DESC: OBSOLETE PART NUMBERS
AS PER PCN#506884

EC NO: 662770
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

2021/02/23
2021/06/02
2021/06/02

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/09/19
2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

molex

CSE M12 XP AC FE STR MA STR XM DE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200668165

DOC TYPE

PSD

DOC PART

000

REVISION

A4

A3-SIZE

120066

SEE TABLE

GENERAL MARKET

5 OF 5

Mouser Electronics

Authorized Distributor

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

Molex:

[1200660915](#) [1200661438](#) [1200661441](#) [1200661543](#) [1200661906](#) [1200665368](#) [1200668001](#) [884030K05M190](#)
[884030K05M250](#)