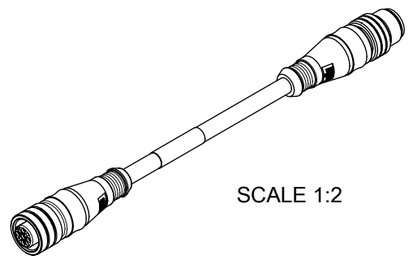
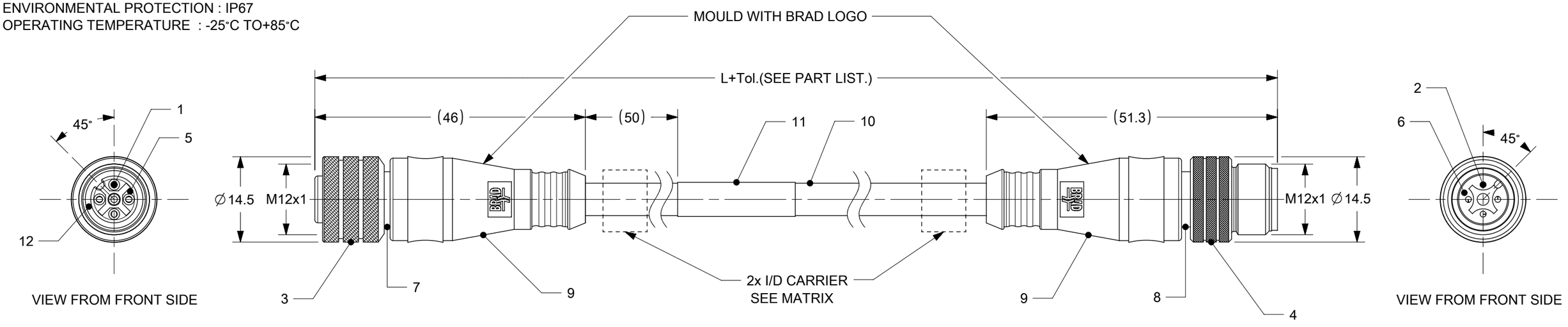
FEMALE MICRO-CHANGE M12 STRAIGHT TO MALE MICRO-CHANGE M12 STRAIGHT



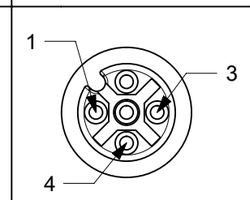
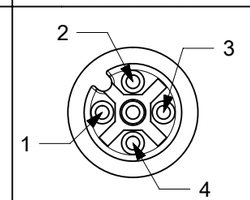
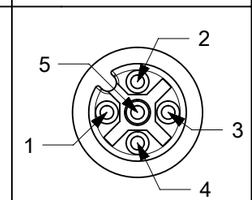
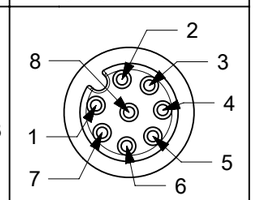
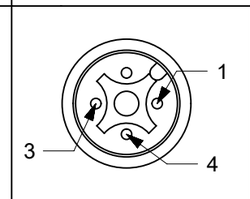
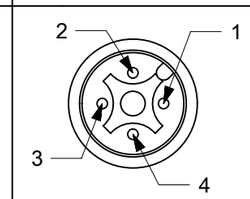
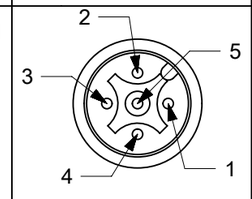
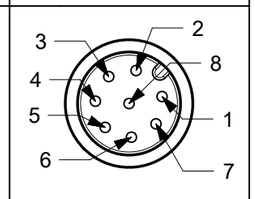
SCALE 1:2

ELECTRICAL SPECIFICATIONS :

VOLTAGE RATING : 3-4P = 250V
5P = 60V
8P = 30V
CURRENT RATING : 3-5P = 4 AMPS
8P = 2 AMPS
INSULATION RESISTANCE : 10^8 Ω MN
MATING CYCLES : MAX. 100
ENVIRONMENTAL PROTECTION : IP67
OPERATING TEMPERATURE : -25°C TO+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	GREY	5	GREY
							6	PINK
							7	BLUE
							8	RED

CODING REQUIRED TO IEC 61076-2-101

BOM

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
1	3/ 4 / 5 / 8	CONTACT FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
2	3/ 4 / 5 / 8	CONTACT MALE	BRASS	SELECTIVE GOLD OVER NICKEL
3	1	COUPLING NUT FEMALE	BRASS	Ni-PLATED
4	1	COUPLING NUT MALE	BRASS	Ni-PLATED
5	1	M12 INSERT FEMALE	PUR	BLACK
6	1	M12 INSERT MALE	PUR	BLACK
7	1	SLEEVE SHLD FEMALE	BRASS	Ni-PLATED
8	1	SLEEVE SHLD MALE	BRASS	Ni-PLATED
9	-	OVERMOULD	TPU	SEE MATRIX
10	-	CABLE	SEE MATRIX	SEE MATRIX
11	1	LABEL YELLOW	VINYL	-
12	1	O-RING	FPM	RED

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

DIMENSION UNITS	SCALE
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

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

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

EC NO: 662770
DRWN: SUGEEB 2021/02/26
CHK'D: GGA 2021/06/02
APPR: GGA 2021/06/02

INITIAL REVISION:
DRWN: RSTONE 2017/01/04
APPR: BWOODMAN 2017/01/18

molex

MICRO-CHANGE ASSEMBLY
MALE/FEMALE, SHIELDED 3-8 POLE

PRODUCT CUSTOMER DRAWING

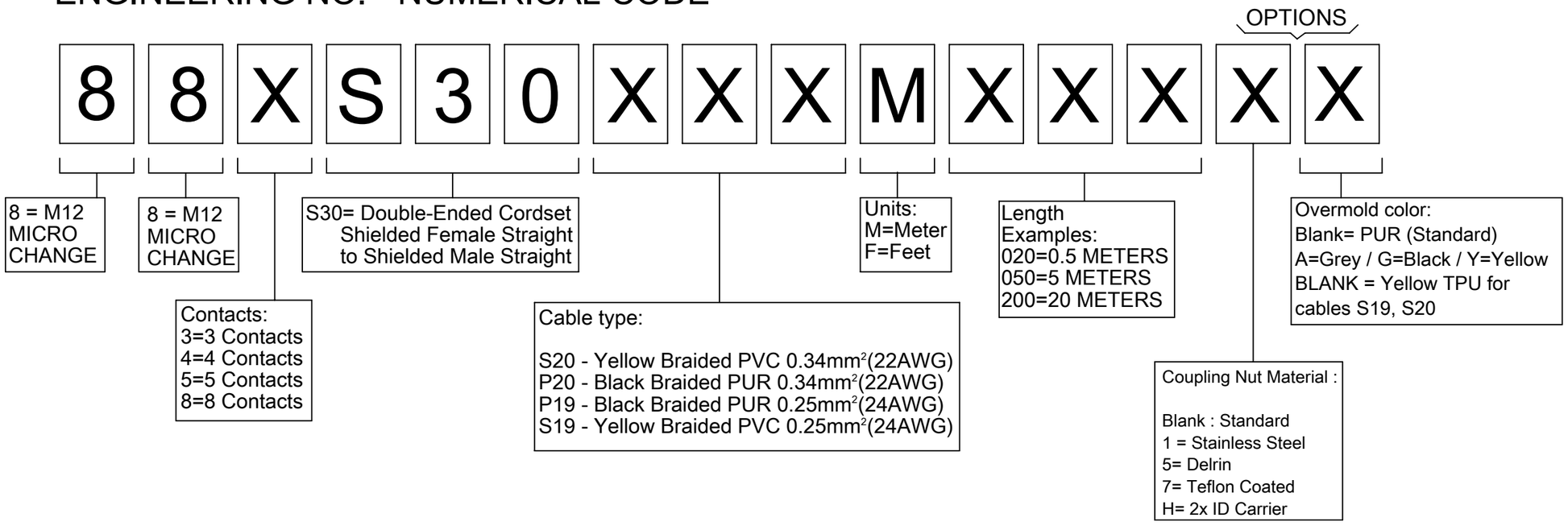
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120069-041	PSD	001	A4

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120069	SEE TABLE	GENERAL MARKET	1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/02 05:44:58

FORMAT: master-lb-prod-A3
REVISION: J
DATE: 2020/01/14

ENGINEERING NO. - NUMERICAL CODE



CABLE INFORMATION :

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
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, Velocity = 120m/min ; bending 15XO.D.	YES
P20	3/4/5	0.34mm²	PUR BLACK LSOH	-	-	-40ºC to +90ºC	-25ºC to +90ºC	-	YES
S19	8	0.25mm²	PVC YELLOW	UL 2661	CSA C22.2	-30°C to +105°C, 10xO.D.	-15°C to +105°C, 15xO.D.	2 000 000 cycles , speed =4m/sec	YES
S20	3/4/5	0.34mm²	PVC YELLOW	UL 2661	1731-CSA	-30°C to +105°C	-40°C to +105°C	-	YES

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
mm	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

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

EC NO: 662770
DRWN: SUGEEB 2021/02/26
CHK'D: GGA 2021/06/02
APPR: GGA 2021/06/02

INITIAL REVISION:
DRWN: RSTONE 2017/01/04
APPR: BWOODMAN 2017/01/18

molex

MICRO-CHANGE ASSEMBLY
MALE/FEMALE, SHIELDED 3-8 POLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120069-041	PSD	001	A4

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120069	SEE TABLE	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/02 05:44:58

FORMAT: master-lb-prod-A3
REVISION: J
DATE: 2020/01/14

PART LIST

No..	MOLEX PN	ENGINEERING NO.	LENGTH
1	1200695045	883S30P20M010	1m
2	1200698080	883S30P20M050	5m
3	1200698035	884S30P20M010	1m
4	1200698036	884S30P20M050	5m
5	1200698128	884S30P20M100	10m
6	1200698129	884S30P20M150	15m
7	1200695054	885S30P20M003	0.3m
8	1200699582	885S30P20M006H	0.6m
9	1200698395	885S30P20M010	1m
10	1200699583	885S30P20M010H	1m
11	1200698342	885S30P20M015	1.5m
12	1200698039	885S30P20M020	2m
13	1200699584	885S30P20M020H	2m
14	1200698448	885S30P20M030	3m
15	1200699585	885S30P20M030H	3m
16	1200698040	885S30P20M050	5m
17	1200699586	885S30P20M050H	5m
18	1200698544	885S30P20M060	6m
19	1200699587	885S30P20M060H	6m
20	1200695053	885S30P20M100	10m
21	1200699588	885S30P20M100H	10m
22	1200698590	885S30P20M120	12m
23	1200699589	885S30P20M150H	15m
24	1200699590	885S30P20M200H	20m
25	1200698140	885S30P20M250	25m
26	1200699591	885S30P20M300H	30m
27	1200699592	885S30P20M350H	35m
28	1200698041	888S30P19M003	0.3m
29	1200698111	888S30P19M010	1m
30	1200690211	888S30P19M020	2m

NO.	MOLEX PN	ENGINEERING NO.	LENGTH
32	1200698042	888S30P19M030	3m
33	1200100233	888S30P19M050	5m
34	1200695005	888S30P19M100	10m
35	1200695011	888S30P19M250	25m
36	1200100128	883S30S20M050	5m
37	1200100203	884S30S20M100	10m
38	1200698091	888S30S19M010	1m
39	1200699605	885S30P20M070	7m
40	1200699606	885S30P20M055	5.5m
41	1200699703	885S30P20M090	9m

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/02 05:44:58

FORMAT: master-tb-prod-A4
REVISION: J
DATE: 2020/01/14

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

DIMENSION UNITS	SCALE
mm	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

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

EC NO: 662770
DRWN: SUGEEB 2021/02/26
CHK'D: GGA 2021/06/02
APPR: GGA 2021/06/02

INITIAL REVISION:
DRWN: RSTONE 2017/01/04
APPR: BWOODMAN 2017/01/18

molex

MICRO-CHANGE ASSEMBLY
MALE/FEMALE, SHIELDED 3-8 POLE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120069-041	PSD	001	A4

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A4-SIZE	120069	SEE TABLE	GENERAL MARKET	3 OF 3