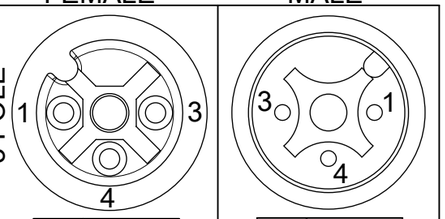
CONTACT POSITION FRONT VIEW

FEMALE	MALE

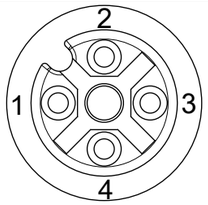
3 POLE



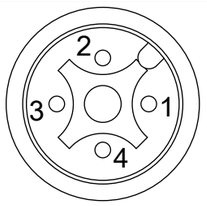
PIN	WIRE
1	BROWN
3	BLUE
4	BLACK

PIN	WIRE
1	BROWN
3	BLUE
4	BLACK

4 POLE

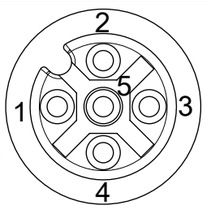


PIN	WIRE
1	BROWN
2	WHITE
3	BLUE
4	BLACK

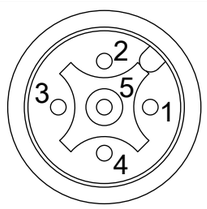


PIN	WIRE
1	BROWN
2	WHITE
3	BLUE
4	BLACK

5 POLE

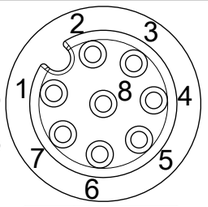


PIN	WIRE
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

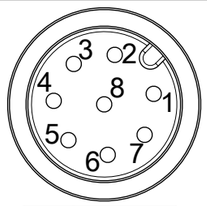


PIN	WIRE
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY

8 POLE



PIN	WIRE
1	WHITE
2	BROWN
3	GREEN
4	YELLOW
5	GRAY
6	PINK
7	BLUE
8	RED



PIN	WIRE
1	WHITE
2	BROWN
3	GREEN
4	YELLOW
5	GRAY
6	PINK
7	BLUE
8	RED

SHIELD CONNECTED TO
THE COUPLING NUT FROM BOTH SIDE

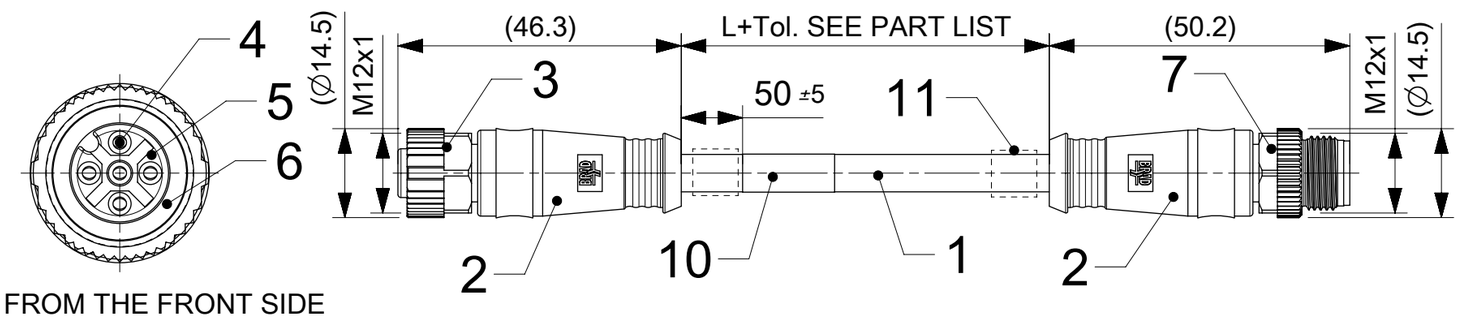
ENGINEERING No -NUMERICAL CODE

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

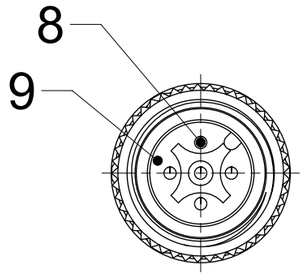
8	8	X	S	3	0	B	S	X	M	X	X	X	H

OPTIONS

- 88 = M12x1 DOUBLE ENDED
- POLES: 3 = 3 POLES; 4 = 4 POLES; 5 = 5 POLES; 8 = 8 POLES
- HEADER: S30 = FEMALE STRAIGHT - MALE STRAIGHT
- CABLE TYPE: BS1= 0.34mm² TPU, SHLD BK; BS2= 0.25mm² TPU, SHLD BK
- UNIT: M = METER
- LENGTH: EXAMPLE: 010 = 1 m; 050 = 5 m; 100 = 10 m
- H=2x ID CARRIER
  COUPLING NUT: BLANK = KNU/HEX; 7 = TEFLON KNU
  OVERMOULD: BLANK = BLACK; A = GREY; G = BLACK; Y = YELLOW



VIEW FROM THE FRONT SIDE
SCALE 2:1



VIEW FROM THE FRONT SIDE
SCALE 2:1

NOTES:

CONTACT CURRENT RATING:
3-5 POLES 4A
8 POLES 2A
VOLTAGE RATING
3-4 POLES 250V
5 POLES 60V
8 POLES 30V
PROTECTION CLASS IP67

DOCUMENT STATUS	P1	RELEASE DATE	2025/09/22 23:17:13

FORMAT: master-lb-prod-A3
REVISION: J1
DATE: 2021/05/01

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

FUNCTIONAL SYMBOLS: FA = 0; FC = 0; FD = 0
DIVISIONAL SYMBOLS

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: ADDED NEW PN TO THE PARTS LIST

EC NO: 833761
DRWN: VHANDI 2025/08/19
CHK'D: NIKHIS3 2025/09/22
APPR: HKNEELAND 2025/09/22

INITIAL REVISION:
DRWN: RSCHIEBER 2023/12/14
APPR: RSILLER 2023/12/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120069

molex

CSE M12 M12 XP AC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200698654	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 2	GENERAL MARKET	1 OF 2

PART LIST

MOLEX PN	ENGINEERING No	L+Tol. [mm]
1200698644	883S30BS1M010	1000 +40
1200698645	883S30BS1M020	2000 +60
1200698646	883S30BS1M030	3000 +60
1200698647	883S30BS1M050	5000 +60
1200698648	883S30BS1M100	10000 +80

MOLEX PN	ENGINEERING No	L+Tol. [mm]
1200698649	884S30BS1M010	1000 +40
1200698650	884S30BS1M020	2000 +60
1200699353	884S30BS1M025	2500 +60
1200698651	884S30BS1M030	3000 +60
1200698652	884S30BS1M050	5000 +60
1200698653	884S30BS1M100	10000 +80

MOLEX PN	ENGINEERING No	L+Tol. [mm]
1200699539	885S30BS1M005	500 +40
1200698654	885S30BS1M010	1000 +40
1200698757	885S30BS1M015	1500 +60
1200698655	885S30BS1M020	2000 +60
1200698656	885S30BS1M030	3000 +60
1200698758	885S30BS1M040	4000 +60
1200698657	885S30BS1M050	5000 +60
1200698658	885S30BS1M100	10000 +80
1200699482	885S30BS1M100H	10000 +80
1200699061	885S30BS1M200	20000 +140
1200699483	885S30BS1M200H	20000 +140
1200699762	885S30BS1M030H	3000 +60
1200699763	885S30BS1M150H	15000 +140
1200699764	885S30BS1M300H	30000 +160

MOLEX PN	ENGINEERING No	L+Tol. [mm]
1200698659	888S30BS2M010	1000 +40
1200698835	888S30BS2M015	1500 +60
1200698660	888S30BS2M020	2000 +60
1200698836	888S30BS2M025	2500 +60
1200698661	888S30BS2M030	3000 +60
1200698837	888S30BS2M040	4000 +60
1200698662	888S30BS2M050	5000 +60
1200698848	888S30BS2M060	6000 +80
1200699815	888S30BS2M070	7000 +80
1200699836	885S30BS1M080	8000 +80
1200698663	888S30BS2M100	10000 +80
1200698998	888S30BS2M150	15000 +140
1200699394	888S30BS2M200	20000 +140
1200699600	888S30BS2M500	50000 +500
1200699754	888S30BS2M300	30000 +160

A1

CABLE SPECIFICATION

CABLE TYPE	WIRE GAUGE	CABLE JACKET	UL	CSA	static	flexing	drag chain tested	shield	other
BS1 3P,4P,5P	0.34mm²	TPU black	STYLE 21215	yes	-40°C to +90°C 5xD	-25°C to +80°C 7.5xD	5 mio cycles	braid	WELD SLAG RESISTANCE
BS2 8P	0.25mm²								

For Raw Cable Specification see SD-120209-003

BILL OF MATERIAL

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	2	ID CARRIER (SEE MATRIX)	PVC	-
10	1	LABEL YE	VINYL	-
9	1	INSERT XP MA M12 SH BK	PUR	-
8	X	CONTACT MA	BRASS	GOLD OVER Ni-PLATED
7	1	KNU/HEX NUT M12 MA	BRASS	Ni-PLATED
6	1	GASKET RD	FPM	-
5	1	INSERT XP FE M12 SH BK	PUR	-
4	X	CONTACT FE	BRASS	GOLD OVER Ni-PLATED
3	1	KNU/HEX NUT M12 FE	BRASS	Ni-PLATED
2	-	OVERMOULD BK	TPU	-
1	-	CABLE	SEE SHEET 2	-

DOCUMENT STATUS | P1 | RELEASE DATE | 2025/09/22 23:17:13

CABLE LENGTH TOLERANCES

LENGTH	TOLERANCE
0 m - 1 m	+40 mm
>1 m - 5 m	+60 mm
>5 m - 10 m	+80 mm
>10 m - 20 m	+140 mm
>20 m - 30 m	+160 mm
>30 m	+1% length

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

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0

DIVISIONAL SYMBOLS

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

CURRENT REV DESC: ADDED NEW PN TO THE PARTS LIST

EC NO: 833761
DRWN: VHANDI 2025/08/19
CHK'D: NIKHIS3 2025/09/22
APPR: HKNEELAND 2025/09/22

INITIAL REVISION:
DRWN: RSCHIEBER 2023/12/14
APPR: RSILLER 2023/12/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120069

molex

CSE M12 M12 XP AC FE STR WSOR MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200698654	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	2 OF 2

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01