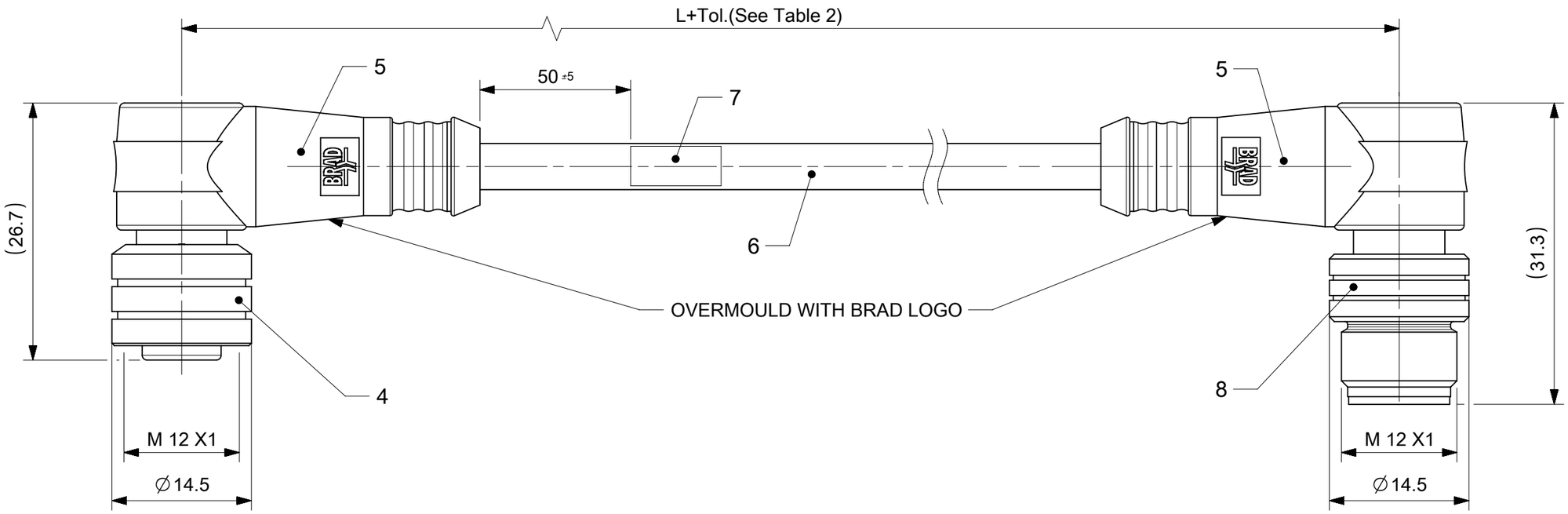
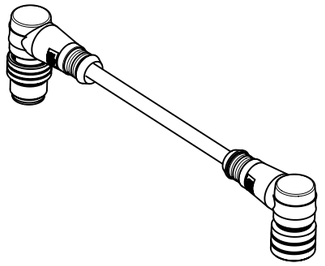
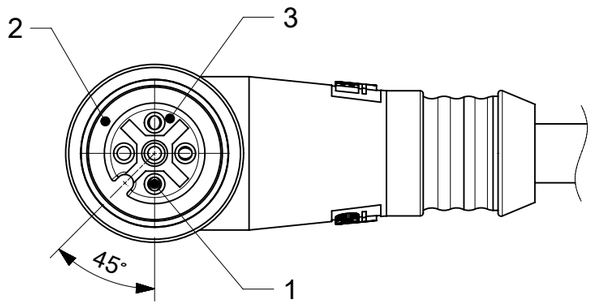
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 90° ANGLED

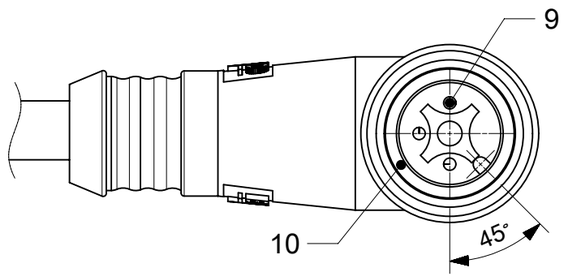




SCALE 1:2



VIEW FROM FRONT SIDE



VIEW FROM FRONT SIDE

BILL OF MATERIALS

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR
10	1	INSERT MALE	PUR	BLACK
9	3	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	SEE CABLE SPECIFICATION
5	1	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	CONTACT M12 FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL

DOCUMENT STATUS	P1	RELEASE DATE	2019/01/09 07:49:13

NOTES:

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

SYMBOLS: F = 0, E = 0, B = 0, S = 0, ▼ = 0, C = 0, ☒ = 0, ■ = 0, V = 0

DIMENSION UNITS: mm
SCALE: 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: DIM PLACEMNT UPDATED

EC NO: 610022
DRWN: SSM 2019/01/07
CHK'D: RSILLER 2019/01/09
APPR: RSILLER 2019/01/09

INITIAL REVISION:
DRWN: DSOPPIN 2018/09/27
APPR: RSILLER 2018/10/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120007

molex

CSE M12 XP AC FE RA MA RA XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200070187	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 3

FORMAT: master_sheet-A3
REVISION: H
DATE: 2018/01/16

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

8	8	X	0	3	3	X	X	X	X	X	X	X	X	X

SPECIAL TYPES

88 = M12x1
Double ended

Poles:
3 = 3 Poles
4 = 4 Poles
5 = 5 Poles

Heads style:
033 = Plugs FE 90° & Male 90°

Cable types:
E02=0.25mm² PVC Black
E03=0.34mm² PVC Black
E13=0.75mm² PVC Yellow
E52=0.34mm² PVC Grey(RAL 7001)
E57=0.34mm² PVC Grey(RAL 7001)
H09=0.34mm² PUR Black
H69=0.34mm² PUR Grey LSOH SCR
I02=0.25mm² PVC Grey CEI
I03=0.34mm² PVC Grey CEI
I20=0.25mm² PVC Grey CEI SCR DC
I26=0.34mm² PVC Grey CEI SCR AC
P02=0.25mm² PUR/PVC Black
P03=0.34mm² PUR/PVC Black
P08=0.25mm² PUR Yellow HIFLEX
P20=0.34mm² PUR Grey LSOH braid
P82=0.34mm² PUR orange irradiated DC
S20=0.34mm² PVC Yellow SJTO braid

Units:
C = Centimeter
M = Meter
K = Killometer
F = Feet

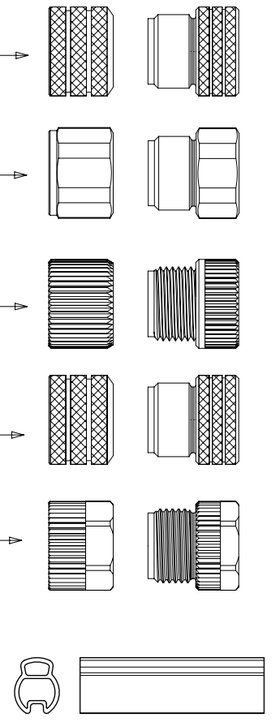
Length Examples:
020 = 2 M
060 = 6 M
100 = 10 M

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
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.)

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
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.	-	-
E13	3	AWG18	PVC YELLOW	UL 1731/AWM 2661	AWM C I/II A/B 80°C/300V	-	-	-	
H09	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	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	-
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	-	-

CONTACT POSITION FRONT VIEW:

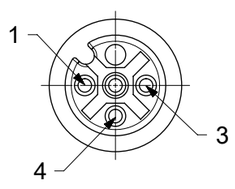
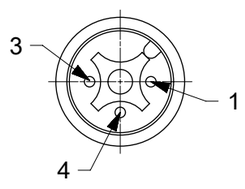
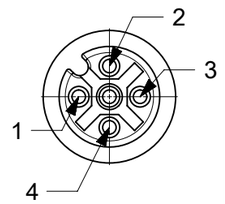
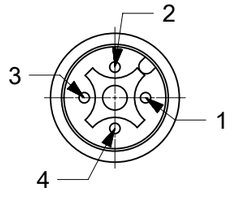
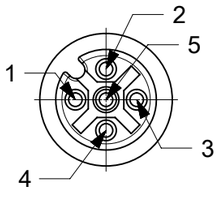
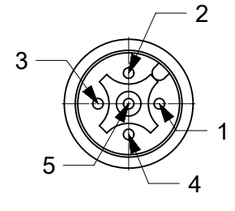
3 POLES FEMALE		3 POLES MALE		4 POLES FEMALE		4 POLES MALE		5 POLES FEMALE		5 POLES MALE	
											
PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	BROWN	1	BROWN
2	-	2	-	2	WHITE	2	WHITE	2	WHITE	2	WHITE
3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	BLUE	3	BLUE
4	BLACK	4	BLACK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

TABLE OF LENGTH TOLERANCE		
OVER	UPTO AND INCULDING	TOLERANCE
0	305	+19
305	915	+45
915	1830	+56
8130	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

DOCUMENT STATUS	P1	RELEASE DATE	2019/01/09 07:49:13

SYMBOLS: A = 0, E = 0, F = 0, S = 0, ▼ = 0, C = 0, ☒ = 0, ■ = 0, ▽ = 0

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: DIM PLACEMNT UPDATED

EC NO: 610022
DRWN: SSM 2019/01/07
CHK'D: RSILLER 2019/01/09
APPR: RSILLER 2019/01/09

INITIAL REVISION:
DRWN: DSOPPIN 2018/09/27
APPR: RSILLER 2018/10/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120007

molex

CSE M12 XP AC FE RA MA RA XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200070187	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	2 OF 3

FORMAT: master-lb-prod-A3
REVISION: H
DATE: 2018/01/18

PART LIST

MOLEX PN	ENGINEERING PN	LENGTH (mm)
1200070187	883033E03M003	300
1200669514	883033E03M006H	600
1200070190	883033E03M020	2000
1200668685	883033E03M030	3000
1200668668	883033E03M050	5000
1200668398	883033E03M100	10000
1200668711	883033E03M1001	10000
1200668649	883033E03M100Y	10000
1200668539	883033E03M150	15000
1200668650	883033E03M150Y	15000
1200668253	883033E03M200	20000
1200668351	883033E13M005	500
1200668498	883033H09M010	1000
1200070203	883033I03M006	600
1200070204	883033I03M010	1000
1200070207	883033I03M050	5000
1200070208	883033I03M100	10000
1200071856	883033I03M1005	10000
1200070209	883033I03M150	15000
1200668295	883033P03M003	300
1200070215	883033P03M006	600
1200070216	883033P03M010	1000
1200070217	883033P03M020	2000
1200070817	883033P03M050	5000
1200668178	884033E03M003	300
1200669210	884033E03M0038	300
1200668079	884033E03M006	600
1200669211	884033E03M0068	600
1200668757	884033E03M008	800
1200070554	884033E03M010	1000
1200073050	884033E03M0101	1000
1200668192	884033E03M020	2000
1200072331	884033E03M0201	2000
1200070556	884033E03M030	3000
1200070557	884033E03M050	5000
1200073065	884033E03M0501	5000
1200668492	884033H09M010	1000
1200668240	884033H09M020	2000
1200668243	884033H09M050	5000
1200668260	884033I03M010	1000
1200668261	884033I03M020	2000
1200668262	884033I03M0305	3000
1200668263	884033I03M0505	5000
1200668264	884033I03M1005	10000
1200661370	884033K03M006	600
1200661371	884033K03M010	1000
1200661373	884033K03M020	2000
1200661374	884033K03M030	3000
1200661599	884033K03M036	3600

MOLEX PN	ENGINEERING PN	LENGTH (mm)
1200661376	884033K03M050	5000
1200661380	884033K05M005	500
1200661382	884033K05M010	1000
1200661383	884033K05M015	1500
1200661384	884033K05M020	2000
1200071524	884033P03M006	600
1200071523	884033P03M010	1000
1200668275	884033P03M015	1500
1200668332	884033P03M020	2000
1200668179	884033P03M020H	2000
1200668217	884033P03M030	3000
1200668298	884033P03M050	5000
1200665041	884033P82M0037	300
1200071326	884033P82M0067	600
1200071327	884033P82M0107	1000
1200070565	884033S20M010	1000
1200665402	885033E03M010	1000
1200668529	885033E03M010H	1000
1200668675	885033E03M020	2000
1200668676	885033E03M030	3000
1200668677	885033E03M050	5000
1200668678	885033E03M100	10000
1200668499	885033H09M010	1000
1200668679	885033H09M020	2000
1200668680	885033H09M030	3000
1200668681	885033H09M050	5000
1200668682	885033H09M100	10000
1200668871	885033P03C130	130
1200668346	885033P03M003	300
1200668094	885033P03M010	1000
1200073087	885033P03M020	2000
1200072660	885033P03M030	3000
1200073088	885033P03M050	5000
1200072657	885033P03M0755	7500
1200073089	885033P03M100	10000
1200668095	885033P03M1005	10000

SYMBOLS	
E/A = 0	
E/C = 0	
E/P = 0	
S = 0	
▼ = 0	
C = 0	
☒ = 0	
■ = 0	
▽ = 0	

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: DIM PLACEMNT
UPDATED

EC NO: 610022
DRWN: SSM 2019/01/07
CHK'D: RSILLER 2019/01/09
APPR: RSILLER 2019/01/09

INITIAL REVISION:
DRWN: DSOPPIN 2018/09/27
APPR: RSILLER 2018/10/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120007

molex

CSE M12 XP AC FE RA MA RA XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200070187	PSD	000	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2019/01/09 07:49:13

FORMAT: master-lb-prod-A3
REVISION: H
DATE: 2018/01/18

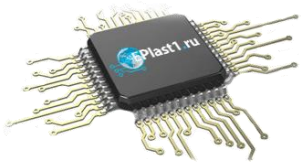
Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits,General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)
Факс: 8 (812) 320-02-42
Электронная почта: org@eplast1.ru
Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.