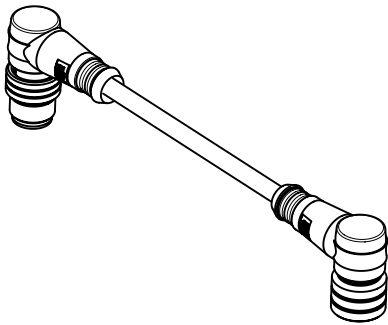
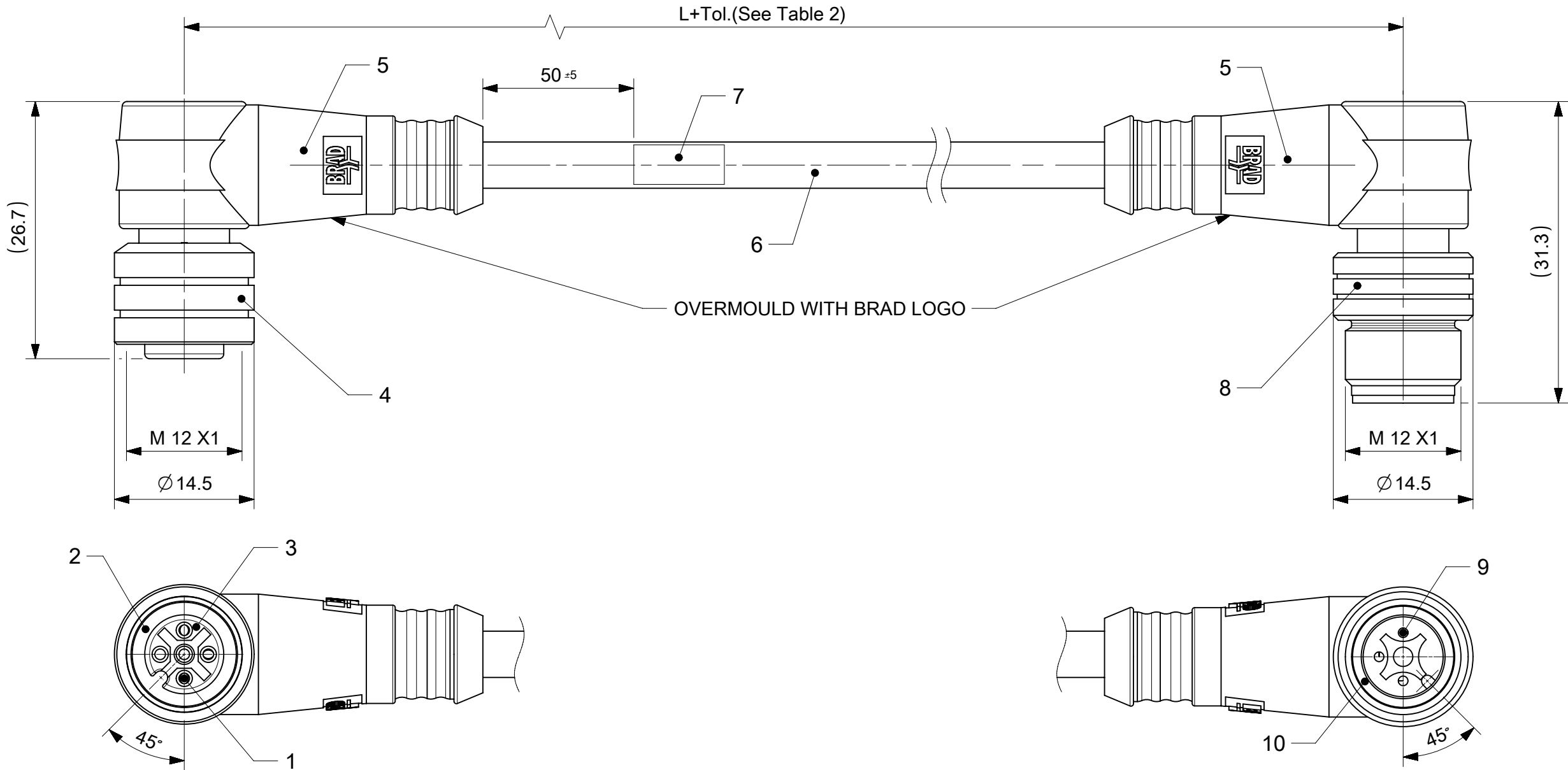


FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 90° ANGLED



SCALE 1:2

VIEW FROM FRONT SIDE

VIEW FROM FRONT SIDE

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

BILL OF MATERIALS

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
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH/COLOR

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

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION														
 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: DIM PLACEMNT UPDATED			molex							
	mm		2:1												
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 610022			CSE M12 XP AC FE RA MA RA XM							
 = 0															
 = 0	ANGULAR TOL ± 1.0 °				DRWN: SSM 2019/01/07			PRODUCT CUSTOMER DRAWING							
 = 0	4 PLACES ±				CHK'D: RSILLER 2019/01/09										
 = 0	3 PLACES ±				APPR: RSILLER 2019/01/09										
 = 0	2 PLACES ± 0.05				INITIAL REVISION: DRWN: DSOPPIN 2018/09/27 APPR: RSILLER 2018/10/22			DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION		
 = 0	1 PLACE ± 0.3							1200070187		PSD		000	A1		
 = 0	0 PLACES ± 0.5							MATERIAL NUMBER		CUSTOMER			SHEET NUMBER		
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		SEE PART LIST		GENERAL MARKET		1 OF 3
							A3-SIZE		120007						

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 X

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 = Kilometer
F = Feet

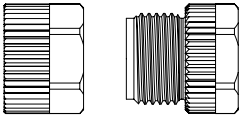
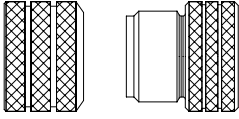
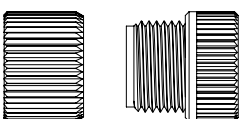
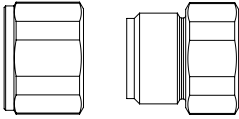
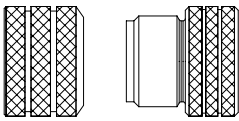
Length
Examples:
020 = 2 M
060 = 6 M
100 = 10 M

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 lxx & 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:

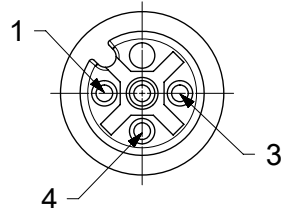
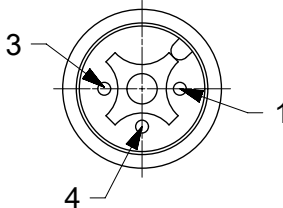
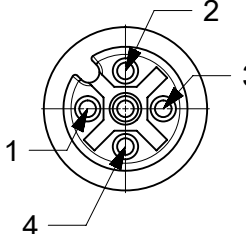
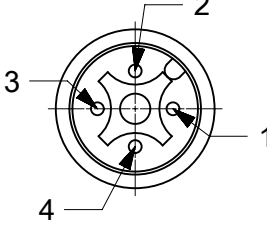
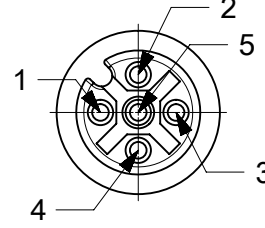
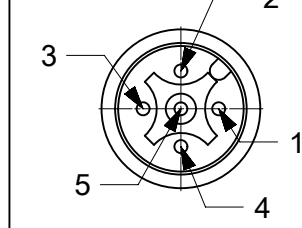
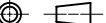
3 POLES FEMALE				3 POLES MALE				4 POLES FEMALE				4 POLES MALE				5 POLES FEMALE				5 POLES MALE			
																							
PIN	WIRE			PIN	WIRE			PIN	WIRE			PIN	WIRE			PIN	WIRE			PIN	WIRE		
1	BROWN			1	BROWN			1	BROWN			1	BROWN			1	BROWN			1	BROWN		
2	-			2	-			2	WHITE			2	WHITE			2	WHITE			2	WHITE		
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							
DOCUMENT STATUS	P1	RELEASE DATE	2019/01/09 07:49:13																				

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

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▽ = 0		DIMENSION UNITS		SCALE		CURRENT REV DESC: DIM PLACEMNT UPDATED				molex CSE M12 XP AC FE RA MA RA XM											
▽ = 0		mm		1:1		EC NO: 610022 DRWN: SSM 2019/01/07 CHK'D: RSILLER 2019/01/09 APPR: RSILLER 2019/01/09															
▽ = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)																			
▽ = 0		ANGULAR TOL ± 1.0 °		INITIAL REVISION: DRWN: DSOPPIN 2018/09/27 APPR: RSILLER 2018/10/22				DOCUMENT NUMBER								DOC TYPE		DOC PART		REVISION	
▽ = 0		4 PLACES ±						1200070187								PSD		000		A1	
▽ = 0		3 PLACES ±		THIRD ANGLE PROJECTION				MATERIAL NUMBER				CUSTOMER				SHEET NUMBER					
▽ = 0		2 PLACES ± 0.05						SEE PART LIST				GENERAL MARKET				2 OF 3					
▽ = 0		1 PLACE ± 0.3						A3-SIZE				120007									
▽ = 0		0 PLACES ± 0.5																			
▽ = 0		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																			

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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