

NOTES:

1. LABEL ON THE CABLE
/ FOR CABLE Ixx PRINTING ON THE CABLE
(ENGINEERING No – THE SAME DIMENSION LIKE FOR LABEL)
2. 2 x ID CARRIER IF IN MATRIX IS "H"
OR FOR CABLE IXX & P82.

ELECTRICAL DATA:
RATED VOLTAGE: 3 contacts 60V AC/DC
4 & 5 contacts 30V AC/DC
CURRENT RATING: 3, 4, 5 contacts 3A
PROTECTION CLASS: IP67
TEMPERATURE: SEE CABLE TYPE TABLE
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

CONTACTS POSITION FRONT VIEW:						
M8 - FEMALE	3 CONTACTS		4 CONTACTS		5 CONTACTS	
M12 - MALE	3 CONTACTS		4 CONTACTS		5 CONTACTS	
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN
	3	BLUE	2	WHITE	2	WHITE
	4	BLACK	3	BLUE	3	BLUE
			4	BLACK	4	BLACK
					5	GREY
CODING M8 ACCORDING TO IEC 61076-2-104						
CODING M12 ACCORDING TO IEC IEC 61076-2-101						

FUNCTIONAL SYMBOLS	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°	
DIVISIONAL SYMBOLS	CURRENT REV DESC: PACKAGING SPEC ADDED	
	4 PLACES ±	
	3 PLACES ±	
	2 PLACES ± 0.05	
	1 PLACE ± 0.3	
	0 PLACES ± 0.5	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	
	THIRD ANGLE PROJECTION	DRAWING
		A3-SIZE
	SERIES	120087
	MATERIAL NUMBER	SEE PART LIST
	CUSTOMER	GENERAL MARKET
	SHEET NUMBER	1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/30	13:30:59
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4 8 * 0 3 0 * * * M * * * *

48 = M8x1/M12x1 DOUBLE ENDED

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES

CABLE TYPE SEE TABLE

UNIT:
M = METER

LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

HEADER:
030 = FEMALE STRAIGHT
- MALE STRAIGHT

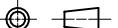
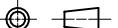
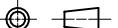
H = 2 PCS. OF I/D CARIERR MOLDING/OVERMOULD:
BLANK = BLACK
BLANK = YELLOW TPE-E
BLANK = YELLOW PUR for 3FT



CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E02	3 4	0.25mm²	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.	-	-
H08	3 4	0.25mm²	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	-
P02	3 4	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P82	3	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
I02	3 4	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
A09	4	0.34mm²	PVC YELLOW	UL 2661	I/II A/B 80°C/300V	-	-	-	-
K05	3 4	0.34mm²	TPE YELLOW	UL ITC or PLTC	I/II A/B 90°C/300V	max 105°C	-	-	-

TABLE OF LENGTH TOLERANCES		
OVER (mm)	UP TO AND INCLUDING (mm)	TOLERANCE (+) (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 LENGTH

BILL OF MATERIALS						
ITEM	3P	4P	QTY.	DESCRIPTION	MATERIAL	FINISH
1	X	X	-	CABLE (SEE MATRIX)	-	-
2	X	X	-	MOULDING MATERIAL	SEE MATRIX	-
3	X	X	3/4	CONTACT 10 FE STA AU CR WRA 0.14-0.50	COPPER	Au
4	X	X	3/4	CONTACT 10 MA STA NI AU CR WRA 0.14-0.5	COPPER	Au
5	X		1,000	INSERT M8 FE 3P 0C CSE PUR BK UNSH	PUR	BK
6	X	X	1,000	GASKET OR FKM 5.0X0.8 RD 70	FKM	RD
7	X	X	1,000	NUT:M8:FEMALE-COUPLING	BRASS	
8	X		1,000	MMC-3P-MALE/MALE INSERT	PUR	BK
9	X	X	1,000	M12 MALE COUPLING NUT-BRASS;rev.1	BRASS	
10	X	X	1,000	HEAD BK M8 STR;12115-1;899921504	TPU	BK
11	X	X	1,000	HEAD BK M12 STR;12114-1;899921504	TPU	BK
12	X	X	1,000	LABEL;2.0X1.75;WRAP-B427;YE	PVC	YE
13	X	X	2,000	I/D CARRIER DIA 4-7MMX30MM	PVC	
14		X	1,000	INSERT M8 FE 4P 0C CSE PUR BK UNSH	PUR	BK
15		X	1,000	MMC-4P-MALE/MALE HOUSING	PUR	BK

FUNCTIONAL SYMBOLS DIVISIONAL SYMBOLS <tr><td colspan="10">THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION</td></tr> <tr><td colspan="2">DIMENSION UNITS</td><td colspan="2">SCALE</td><td colspan="3" rowspan="2">CURRENT REV DESC: PACKAGING SPEC ADDED</td><td colspan="3" rowspan="2"> molex NC/MMC-XP-FE/MM-ST/ST-XM</td></tr> <tr><td colspan="2">mm</td><td colspan="2">1:1</td></tr> <tr><td colspan="4">GENERAL TOLERANCES (UNLESS SPECIFIED)</td><td colspan="3" rowspan="2">EC NO: 770174 DRWN: RSCHIEBER 2023/11/17 CHK'D: RSILLER 2023/11/30 APPR: RSILLER 2023/11/30</td><td colspan="3" rowspan="2">PRODUCT CUSTOMER DRAWING</td></tr> <tr><td colspan="4">ANGULAR TOL ± 1.0°</td></tr> <tr><td colspan="2">4 PLACES</td><td colspan="2">±</td><td colspan="3" rowspan="4">INITIAL REVISION: DRWN: AKONDRACIUK 2017/06/12 APPR: MIWASIECZKO 2017/06/14</td><td colspan="2">DOCUMENT NUMBER</td><td>DOC TYPE</td><td>DOC PART</td><td>REVISION</td></tr> <tr><td colspan="2">3 PLACES</td><td colspan="2">±</td><td colspan="2" rowspan="3">1200878038</td><td rowspan="3">PSD</td><td rowspan="3">000</td><td rowspan="3">A10</td></tr> <tr><td colspan="2">2 PLACES</td><td colspan="2">± 0.05</td></tr> <tr><td colspan="2">1 PLACE</td><td colspan="2">± 0.3</td></tr> <tr><td colspan="2">0 PLACES</td><td colspan="2">± 0.5</td><td colspan="3" rowspan="2">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td><td colspan="2">THIRD ANGLE PROJECTION</td><td>DRAWING</td><td>SERIES</td><td>MATERIAL NUMBER</td><td>CUSTOMER</td><td>SHEET NUMBER</td></tr> <tr><td colspan="2"></td><td colspan="2"></td><td>A3-SIZE</td><td>120087</td><td>SEE PART LIST</td><td>GENERAL MARKET</td><td>2 OF 3</td></tr>	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: PACKAGING SPEC ADDED			molex NC/MMC-XP-FE/MM-ST/ST-XM			mm		1:1		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 770174 DRWN: RSCHIEBER 2023/11/17 CHK'D: RSILLER 2023/11/30 APPR: RSILLER 2023/11/30			PRODUCT CUSTOMER DRAWING			ANGULAR TOL ± 1.0°				4 PLACES		±		INITIAL REVISION: DRWN: AKONDRACIUK 2017/06/12 APPR: MIWASIECZKO 2017/06/14			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	3 PLACES		±		1200878038		PSD	000	A10	2 PLACES		± 0.05		1 PLACE		± 0.3		0 PLACES		± 0.5		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER					A3-SIZE	120087	SEE PART LIST	GENERAL MARKET	2 OF 3
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