

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.

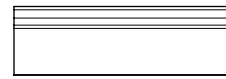
ELECTRICAL DATA:
RATED VOLTAGE: 3 contacts 60V AC/DC
4 & 5 contacts 30V AC/DC
CURRENT RATING: 3, 4, 5 contacts 3A
PROTECTION CLASS: IP67
TEMPERATURE: SEE CABLE TYPE TABLE
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

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		CURRENT REV DESC: NEW LENGTH ADDED				molex						
	mm		2:1												
	F = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)				NC/MMC-XP-FE/MM-ST/ST-XM									
F = 0	ANGULAR TOL ± 1.0 °														
F = 0	4 PLACES		±		EC NO: 811973 DRWN: RSCHIEBER 2025/02/06 CHK'D: RSILLER 2025/02/07 APPR: RSILLER 2025/02/07										
DIVISIONAL SYMBOLS	3 PLACES		±												
	2 PLACES		± 0.05		PRODUCT CUSTOMER DRAWING										
	1 PLACE		± 0.3												
	0 PLACES		± 0.5		INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION		
				DRWN: AKONDRACIUK 2017/06/12 APPR: MIWASIECZKO 2017/06/14		1200878038		PSD		000		A11			
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		1 OF 3	

4 8 * 0 3 0 * * * M * * * *

H = 2 PCS. OF I/D CARIERR
MOLDING/OVERMOULD:
BLANK = BLACK
BLANK = YELLOW TPE-E for cables K05
BLANK = YELLOW PUR for cables A09
A = GREY
G = BLACK
Y = YELLOW
COUPLING NUT:
BLANK=KNU/HEX
7=TEFLON
BLANK=7 for cables K05



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	-	-	-

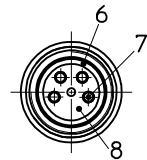
TABLE OF LENGTH TOLERANCES		
OVER (mm)	UP TO AND INCLUDING (mm)	TOLERANCE (+) (mm)
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

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	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: NEW LENGTH ADDED				molex						
	mm		1:1												
			= 0		GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL ± 1.0 °		NC/MMC-XP-FE/MM-ST/ST-XM						
		= 0													
		= 0													
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 811973				PRODUCT CUSTOMER DRAWING						
	3 PLACES		±		DRWN: RSCHIEBER 2025/02/06										
	2 PLACES		± 0.05		CHK'D: RSILLER 2025/02/07										
	1 PLACE		± 0.3		APPR: RSILLER 2025/02/07										
	0 PLACES		± 0.5		INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION	
					DRWN: AKONDRACIUK 2017/06/12				1200878038		PSD		000	A11	
					APPR: MIWASIECZKO 2017/06/14										
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	

10	9	8	7	6	5	4	3	2	1
CABLE	P/N								
484030H08M0209	1200878578								

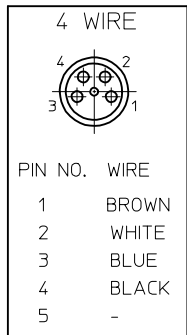
M8 FEMALE



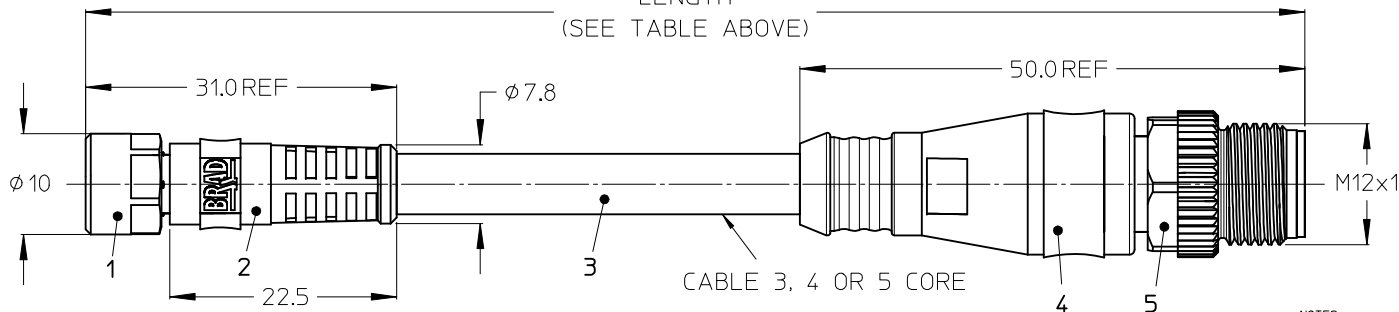
NOTES:

TEMPERATURE RANGE: -25°C/+80°C
CONTACT CURRENT RATING: 3A
VOLTAGE RATING: 3 POLE (A-CODE) 60V
4 POLE (A-CODE) 30V
5 POLE (B-CODE) 30V
PROTECTION CLASS: IP 67

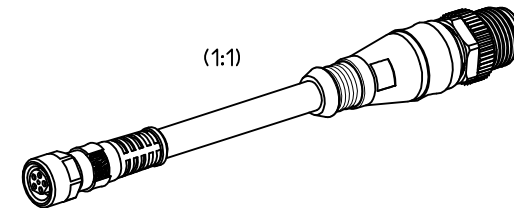
FACE VIEW



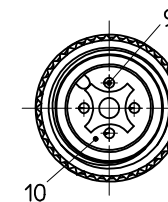
LENGTH
(SEE TABLE ABOVE)



(1:1)



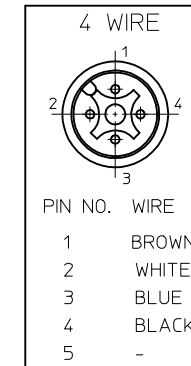
M12 MALE



NOTES:

TEMPERATURE RANGE: -25°C/+80°C
CONTACT CURRENT RATING: 3-5 POLE 4A
VOLTAGE RATING: 3-4 POLE 250V
5 POLE 60V
PROTECTION CLASS: IP 67

FACE VIEW



TOLERANCES

≤ 1m +20/-10mm
1m - 5m ± 25mm
5m - 10m ± 30mm
> 10m ± 30mm
> 20m ± 50mm

ITEM	COMPONENT	MATERIAL	FINISH
1	COUPLING NUT M8 FE	CuZn39Pb3 F44	Ni
2	OVERMOULD M8	TPU UF NATURAL C98A10	-
3	CABLE	SEE TABLE	-
4	OVERMOULD M12	TPU UF NATURAL C98A10	-
5	COUPLING NUT M12 MA	BRASS	Ni
6	GASKET	FKM	-
7	PIN CONTACT M8 FE	COPPER ALLOY	GOLD PLATED
8	INSERT M8 FE 4P	PUR	-
9	PIN CONTACT M12 MA	CuZn36	2µi Ni, 0.70µi GOLD
10	INSERT M12 MA 4P	PUR	-

ENTER DESCRIPTION EC NO: IPG2013-0775 DRWN:RSCHIEBER 2012/11/28 CHKD:RSILLER 2012/11/28 APPR:CBURGER 2012/12/05	DESCRIPTION	QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE MM ONLY		SCALE 2:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION			
			mm	INCH	DRAWN BY RSCHIEBER	DATE 2012/11/28	TITLE CSE M8 M12 4P FE STR PUR MA STR 2M UNSH AU					
			4 PLACES	± --- ± ---	CHECKED BY RSILLER	DATE 2012/11/28						
			3 PLACES	± --- ± ---	APPROVED BY CBURGER		DATE 2012/12/05	molex				
			2 PLACES	± 0.05 ± ---	MATERIAL NO.							
			1 PLACE	± 0.30 ± ---	SEE TABLE							
			0 PLACE	± 0.50 ± ---	SIZE A3			THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
			ANGULAR ± 1 °									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS									

10

9

8

7

6

5

4

3

2

1

NUMERICAL CODE

4

8

X

0

3

0

X

X

X

X

X

X

X

X

X

4 = M8x1

8 = M12x1

poles:

3 = 3 poles
4 = 4 poles
5 = 5 poles

header:

030 = female straight to
male straight

See table of cable types

M = metres
F = feet

Length:
Example
020 = 2 m
050 = 5 m
200 = 20 m

Coupling Nut Material
Blank = Standard
1 = Stainless steel
5 = Delrin
7 = TEFLON Coated
9 = Knurled hex nut

Blank = Yellow (Standard)
A = Grey
G = Black

CABLE:

E02 = 0.25mm², PVC BLACKE51 = 0.25mm², PVC GREYE54 = 0.25mm², PVC GREY HIFLEXH08 = 0.25mm², PUR BLACKI02 = 0.25mm², PVC GREY IRRADIATEDP02 = 0.25mm², PUR/PVC BLACK

ENTER DESCRIPTION EC NO: IPG2013-0775 DRWN:RSCHIEBER 2012/11/28 CHKD:RSILLER 2012/11/28 APPR:CBURGER 2012/12/05 1		DESCRIPTION QUALITY SYMBOLS ▽=0 ◻=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE		SCALE	DESIGN UNITS	THIRD ANGLE PROJECTION		
					MM ONLY		2:1	METRIC			
					DRAWN BY DATE		TITLE CSE M8 M12 4P FE STR PUR MA STR 2M UNSH AU				
					2012/11/28						
					CHECKED BY DATE		molex DOCUMENT NO. SD-120087-046 SHEET NO. 2 OF 2				
					2012/11/28						
					APPROVED BY DATE						
					2012/12/05						
					MATERIAL NO.						
					SEE SHT 1						
		SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							

9

8

7

6

5

4

3

2

1