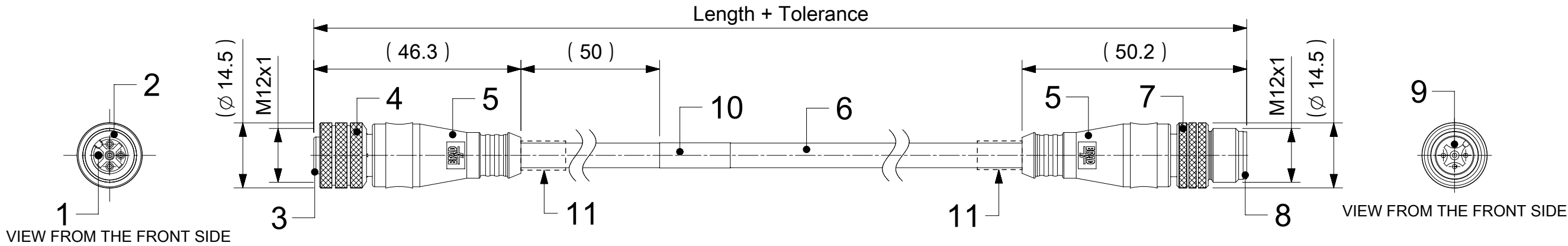


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
FEMALE								
MALE								
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	-	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
					5	GREY	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE SHEET 2	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	-
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	-
7	1	COUPLING NUT MALE	-	-
6	-	CABLE	SEE SHEET 2	-
5	-	OVERMOULDING BLACK	TPU	-
4	1	COUPLING NUT FEMALE	-	-
3	1	INSERT FEMALE BLACK	PUR	-
2	1	O-RING RED	FPM	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
FUNCTIONAL SYMBOLS		DIMENSION UNITS		SCALE
mm		1:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		ANGULAR TOL		± 1.0 °
4 PLACES		±		
3 PLACES		±		0.05
2 PLACES		±		0.3
1 PLACE		±		0.5
0 PLACES		±		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		
DRAWING		SERIES		
A3-SIZE		120066		
EC NO: 769491		DRWN: VHANDI		2023/10/30
CHK'D: RSILLER		APPR: RSILLER		2023/11/21
INITIAL REVISION:		DRWN: JMARSZALEK		2016/09/16
APPR: RSILLER		2016/12/08		
DOCUMENT NUMBER		DOC TYPE		DOC PART
1200668084		PSD		000
CUSTOMER		SHEET NUMBER		
GENERAL MARKET		1 OF 4		

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

88X030XXX

88=Micro-Change
M12x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

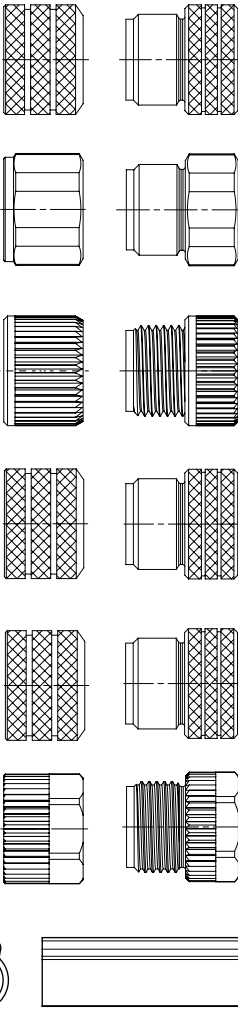
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS
FEMALE MALE



CABLE INFORMATION (for more information see Cable Data Sheet).

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 / 5 / 8	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.	-	-
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.	-	-
H08	3 / 4 / 5 / 8	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	-
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	-
P02	3 / 4 / 5 / 8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-

CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [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 FINISHED LENGTH

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																
DIVISIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: NEW P/N'S ADDED TO THE DRAWING 12335			molex									
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE M12 XP AC FE STR MA STR XM DE									
	ANGULAR TOL ± 1.0 °																
	4 PLACES		±		EC NO: 769491 DRWN: VHANDI 2023/10/30 CHK'D: RSILLER 2023/11/21 APPR: RSILLER 2023/11/21												
	3 PLACES		±														
	2 PLACES		± 0.05														
	1 PLACE		± 0.3		PRODUCT CUSTOMER DRAWING												
	0 PLACES		± 0.5														
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS								THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE
						A3-SIZE		120066		1200668084		PSD		000		A17	
										MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
										SEE SHEET 3-4		GENERAL MARKET				2 OF 4	

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/21	12:03:28
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	10	9	8	7	6	5	4	3	2	1	
	PART LIST										
F	MOLEX PN			Engineering No.			Length				F
	1200668174			884030H09M030			3m				
	1200668380			884030H09M040			4m				
	1200668244			884030H09M050			5m				
	1200668550			884030H09M050H			5m				
	1200668737			884030H09M055			5.5m				
	1200669926			884030H09M065H			6.5m				
	1200669927			884030H09M070H			7m				
	1200669931			884030H09M075H			7.5m				
E	1200669932			884030H09M080H			8m				E
	1200668381			884030H09M100			10m				
	5P CABLE H09										
	1200668509			885030H09M006			0.6m				
	1200668497			885030H09M010			1m				
	1200669756			885030H09M015H			1.5m				
	1200668500			885030H09M020			2m				
	1200669762			885030H09M020H			2m				
	1200669757			885030H09M025H			2.5m				
D	1200668510			885030H09M030			3m				D
	1200669763			885030H09M030H			3m				
	1200668853			885030H09M040			4m				
	1200668501			885030H09M050			5m				
	1200668854			885030H09M060			6m				
	1200668502			885030H09M092			9.2m				
	1200668511			885030H09M100			10m				
	1200668683			885030H09M150			15m				
	1200668684			885030H09M200			20m				
C	8P CABLE P02										C
	1200661455			888030P02M005			0				

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	PART LIST										
F	MOLEX PN			Engineering No.			Length				F
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	1200668380			884030H09M040			4m				
	1200668244			884030H09M050			5m				
	1200668550			884030H09M050H			5m				
	1200668737			884030H09M055			5.5m				
	1200669926			884030H09M065H			6.5m				
	1200669927			884030H09M070H			7m				
	1200669931			884030H09M075H			7.5m				
E	1200669932			884030H09M080H			8m				E
	1200668381			884030H09M100			10m				
	5P CABLE H09										
	1200668509			885030H09M006			0.6m				
	1200668497			885030H09M010			1m				
	1200669756			885030H09M015H			1.5m				
	1200668500			885030H09M020			2m				
	1200669762			885030H09M020H			2m				
	1200669757			885030H09M025H			2.5m				
D	1200668510			885030H09M030			3m				D
	1200669763			885030H09M030H			3m				
	1200668853			885030H09M040			4m				
	1200668501			885030H09M050			5m				
	1200668854			885030H09M060			6m				
	1200668502			885030H09M092			9.2m				
	1200668511			885030H09M100			10m				
	1200668683			885030H09M150			15m				
	1200668684			885030H09M200			20m				
C	8P CABLE P02										C
	1200661455			888030P02M005			0				

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	PART LIST										
F	MOLEX PN			Engineering No.			Length				F
	1200668174			884030H09M030			3m				
	1200668380			884030H09M040			4m				
	1200668244			884030H09M050			5m				
	1200668550			884030H09M050H			5m				
	1200668737			884030H09M055			5.5m				
	1200669926			884030H09M065H			6.5m				
	1200669927			884030H09M070H			7m				
	1200669931			884030H09M075H			7.5m				
E	1200669932			884030H09M080H			8m				E
	1200668381			884030H09M100			10m				
	5P CABLE H09										
	1200668509			885030H09M006			0.6m				
	1200668497			885030H09M010			1m				
	1200669756			885030H09M015H			1.5m				
	1200668500			885030H09M020			2m				
	1200669762			885030H09M020H			2m				
	1200669757			885030H09M025H			2.5m				
D	1200668510			885030H09M030			3m				D
	1200669763			885030H09M030H			3m				
	1200668853			885030H09M040			4m				
	1200668501			885030H09M050			5m				
	1200668854			885030H09M060			6m				
	1200668502			885030H09M092			9.2m				
	1200668511			885030H09M100			10m				
	1200668683			885030H09M150			15m				
	1200668684			885030H09M200			20m				
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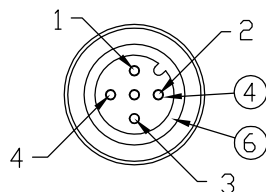
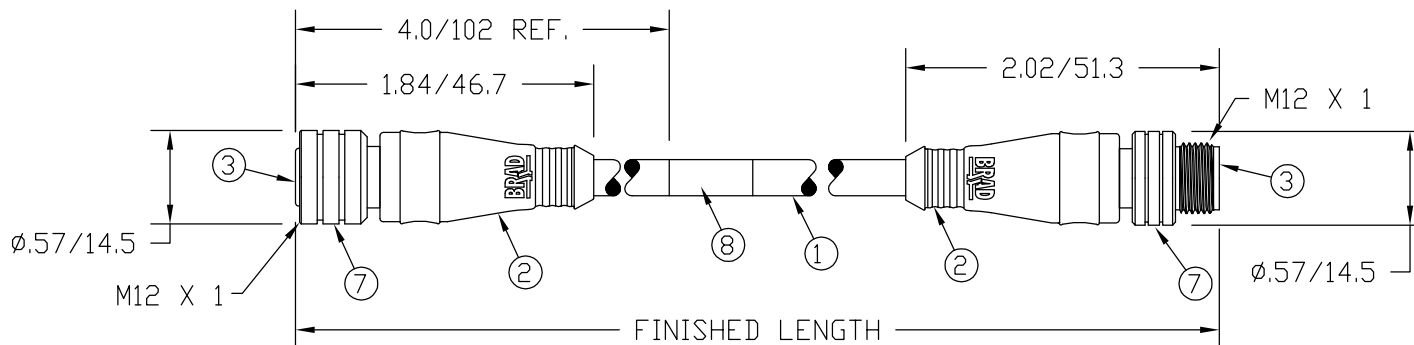
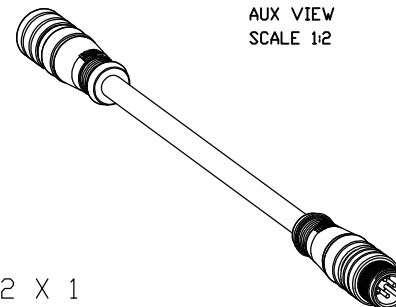
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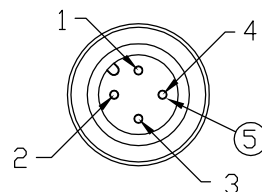
2

1

MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
120007-0487	884030P03M006	.6M +44.5 -0 [1.97' +1.75' -0]
120007-0488	884030P03M010	1.0M +55.6 -0 [3.27' +2.19' -0]
120007-0489	884030P03M020	2.0M +88.9 -0 [6.56' +3.50' -0]
120006-0051	884030P03M030	3.0M +88.9 -0 [9.84' +3.50' -0]
120007-2803	884030P03M040	4.0M +165.1 -0 [13.12' +6.50' -0]
120007-0490	884030P03M050	5.0M +165.1 -0 [16.40' +6.50' -0]

AUX VIEW
SCALE 1:2

FEMALE FACE VIEW



MALE FACE VIEW

1	BROWN	1
2	WHITE	2
3	BLUE	3
4	BLACK	4

WIRING DIAGRAM

NOTES:

- 1) MATERIALS: SEE TABLE
- 2) FINISHES: SEE TABLE
- 3) CABLE: #22/4 PUR
- 4) ELECTRICAL DATA:
MAX. VOLTAGE: 250 VAC/VDC
MAX. CURRENT: 4 AMPS
- 5) ENVIRONMENTAL:
PROTECTION: IP67
TEMPERATURE RANGE: -20°C TO 80°C
- 6) WRAP LABEL IS MARKED WITH P/N, DATE CODE,
VOLTAGE & AMPERAGE.
- 7) ASSEMBLY IS RoHS COMPLIANT.

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
8	1	LABEL	MYLAR	BLACK/YELLOW
7	2	COUPLER	BRASS	NICKEL PLATED
6	1	O-RING	VITON	RED
5	4	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
4	4	SOCKET CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	2	INSERT	PUR	BLACK
2	2	OVERMOLD	PUR	YELLOW
1	1	#22/4 CABLE	PUR JACKET	BLACK

RELEASED DRAWING
EC NO.: WEL2010-0054
DRWN: BWOODMAN 8/14/09
CHKD: BWOODMAN 09/07/29
APPR: JFMURPHY 2009/08/21
REV
A

QUALITY SYMBOLS
▽=0
▽=0

GENERAL TOLERANCES
(UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±---	±---
3 PLACES	±---	±---
2 PLACES	±---	±.01
1 PLACE	±0.3	±---

ANGULAR ±---°
DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONSDIMENSION STYLE
IN/MM

DRAWN BY	DATE
BWOODMAN	2009/08/14
CHECKED BY	DATE
VOU	2009/08/14
APPROVED BY	DATE
---	---
MATERIAL NO.	SEE TABLE
SIZE	A

SCALE
1:1DESIGN UNITS
INCHTHIRD ANGLE
PROJECTIONMICRO-CHANGE CORDSET
4P MA/FE SINGLE KEY
#22/4 BLACK PUR CABLE

MOLEX INCORPORATED

DOCUMENT NO. SD-120007-001

SHEET NO.
1 OF 1THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX
INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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4

3

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1