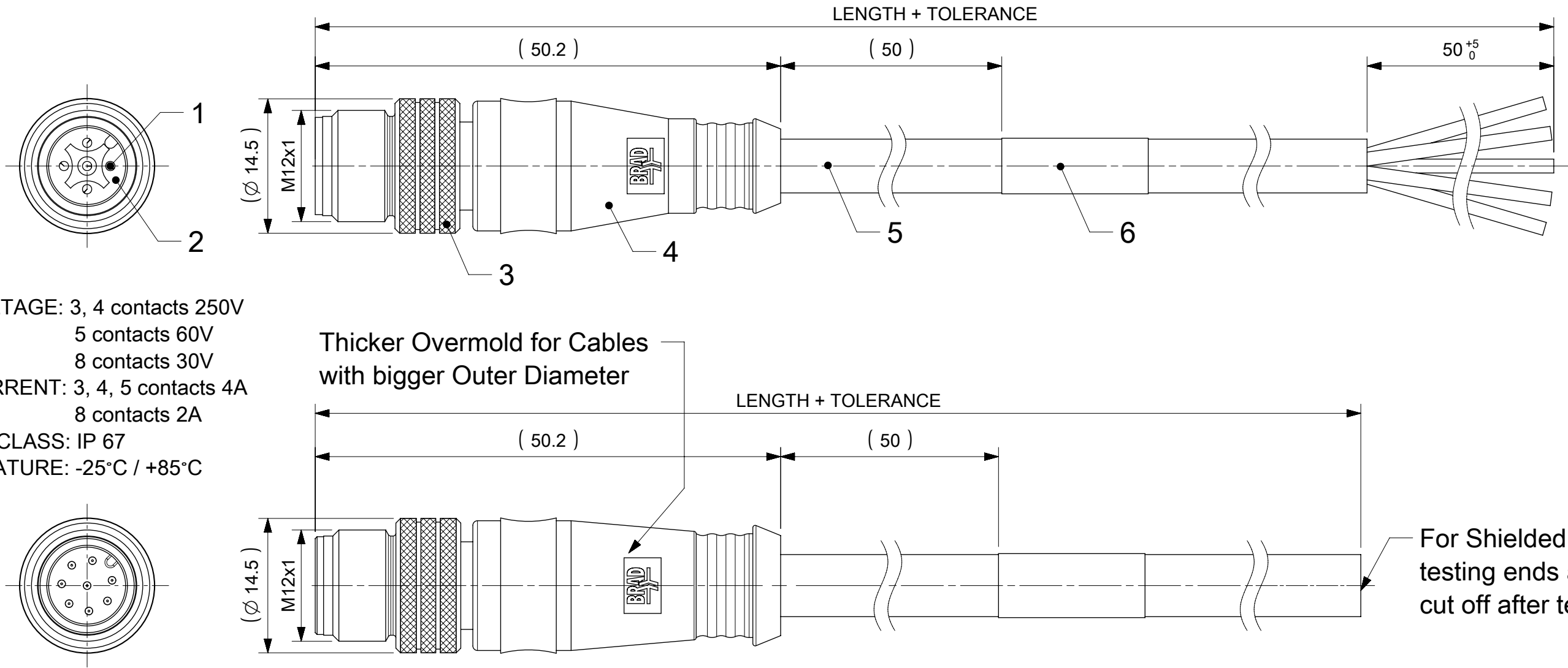


MALE PLUG M12 STRAIGHT



NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
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	
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	---	5	---	5	GRAY OR YELLOW/GREEN	5	GREY
						6	PINK
						7	BLUE
						8	RED

CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

6	1	LABEL YELLOW	VINYL	---			
	-	PRINTING FOR CABLES lxx	---	---			
5	-	CABLE	SEE SHEET 2	---			
4	-	OVERMOLDING BLACK	TPU	---			
3	1	COUPLING NUT MALE	BRASS	NICKEL			
2	1	INSERT MALE BLACK	PUR	---			
1	3 / 4 / 5 / 8	CONTACT M12 MALE	BRASS	SELECTIVE Au OVER Ni			
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							
DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETE PART NUMBERS AS PER PCN#506884					
mm	2:1						
GENERAL TOLERANCES (UNLESS SPECIFIED)		molex CSE M12 XP AC MA STR XM SE UNSH					
ANGULAR TOL ± 1.0 °							
4 PLACES	±	EC NO: 662770 DRWN: SUGEEB 2021/02/19 CHK'D: GGA 2021/06/02 APPR: GGA 2021/06/02					
3 PLACES	±						
2 PLACES	± 0.05						
1 PLACE	± 0.1	INITIAL REVISION: DRWN: JMARSZALEK 2016/01/13 APPR: RSILLER 2016/04/08					
0 PLACES	± 0.2						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A3-SIZE	120065	SEE SHEET 3	GENERAL MARKET	1 OF 3

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

80X006XXXXXX

80=M12x1
Single ended

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

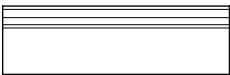
Heads style:
006=Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

OPTIONS

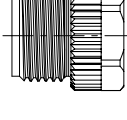
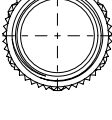
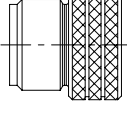
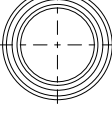
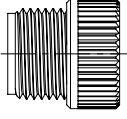
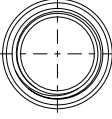
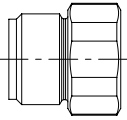
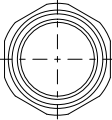
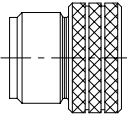
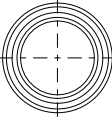


H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables A09,S19,S20,S26
Blank=Yellow TPE-E for cables K03,K05
A=Grey / G=Black / Y=Yellow

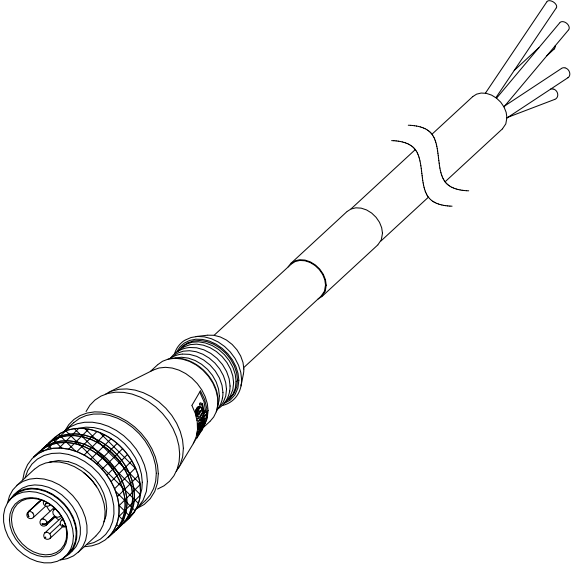
Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

COUPLING NUTS



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
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I02	3 / 4 / 8	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
K03	4 / 5	0.34mm²	TPE YELLOW	UL JEC 60332-1 or PLCT	I/II 90°C/300V	-	-	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-	-
P12	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, 10xO.D.	-15°C to +105°C, 15xO.D.	-	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES



SCALE 1:1

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

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DIMENSION UNITS
mm

SCALE
1:1

CURRENT REV DESC: OBSOLETE PART NUMBERS
AS PER PCN#506884

EC NO: 662770
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

2021/02/19
2021/06/02
2021/06/02

GENERAL TOLERANCES
(UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.1

0 PLACES ± 0.2

DRAFT WHERE APPLICABLE
MUST REMAIN
WITHIN DIMENSIONS

PRODUCT CUSTOMER DRAWING

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/13
2016/04/08

DOCUMENT NUMBER
1200650971

DOC TYPE
PSD

DOC PART
000

REVISION
A7

SHEET NUMBER
2 OF 3

F

EDCBA

F

A

6

5

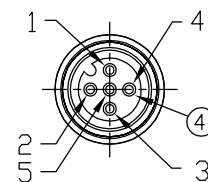
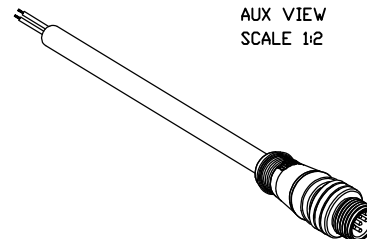
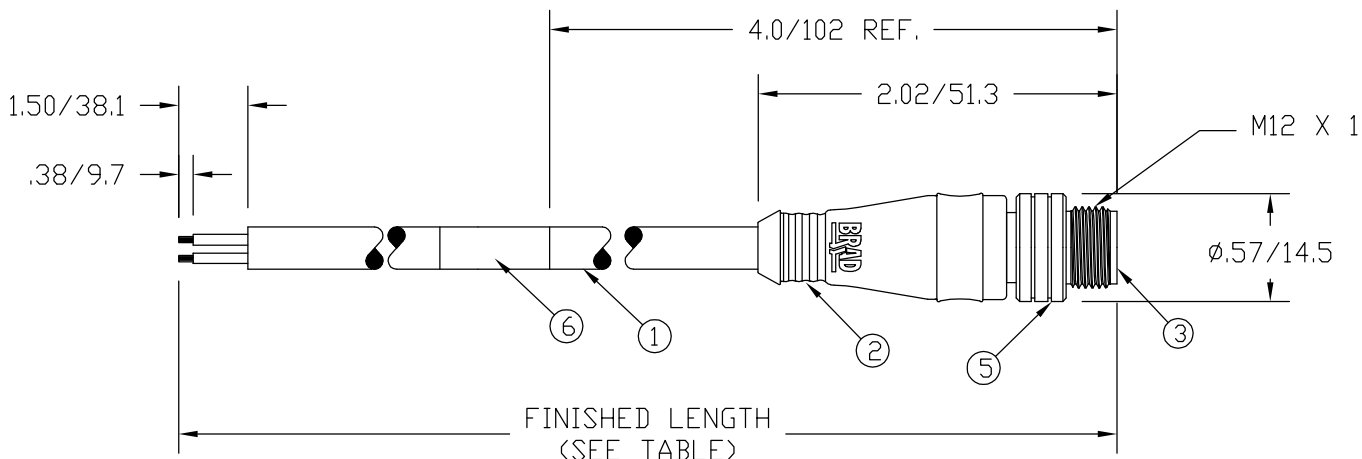
4

3

2

1

MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
120065-1374	805006K03M020	2.0M +89mm -0 [6.56' +3.5' -0]
120065-2150	805006K03M040	4.0M +165mm -0 [13.12' +6.5' -0]
120065-2151	805006K03M050	5.0M +165mm -0 [16.40' +6.5' -0]
120065-2152	805006K03M060	6.0M +165mm -0 [19.69' +6.5' -0]
120065-2153	805006K03M100	10.0M +318mm -0 [32.81' +12.5' -0]



MALE FACE VIEW

1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GRAY

WIRING DIAGRAM

NOTES:

- 1) MATERIALS: SEE TABLE
- 2) FINISHES: SEE TABLE
- 3) CABLE: #18/5 ITC/PLTC TPE
- 4) ELECTRICAL DATA:
MAX. VOLTAGE: 250 VAC/VDC
MAX. CURRENT: 4 AMPS
- 5) ENVIRONMENTAL:
PROTECTION IP67
TEMPERATURE RANGE: -20°C TO 105°C
- 6) WRAP LABEL IS MARKED WITH P/N, DATE CODE,
VOLTAGE & AMPERAGE.
- 7) ASSEMBLY IS RoHS COMPLIANT.

6	1	LABEL	MYLAR	BLACK/YELLOW
5	1	COUPLER	BRASS	TEFLON/NICKEL
4	5	PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	1	INSERT	PUR	BLACK
2	1	OVERMOLD	TPE	YELLOW
1	1	#22/5 CABLE	TPE JACKET	YELLOW
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

RELEASED DRAWING EC NO: WEL2010-0054 DRWN: BWOODMAN 8/17/09 CHKD: YOU 2009/07/29 APPR: JFMURPHY 2009/08/21	QUALITY SYMBOLS ▽=0 ▽C=0	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
A	REV	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO. SEE TABLE		DOCUMENT NO. SD-120065-021		SHEET NO. 1 OF 1	

6

5

4

3

2

1