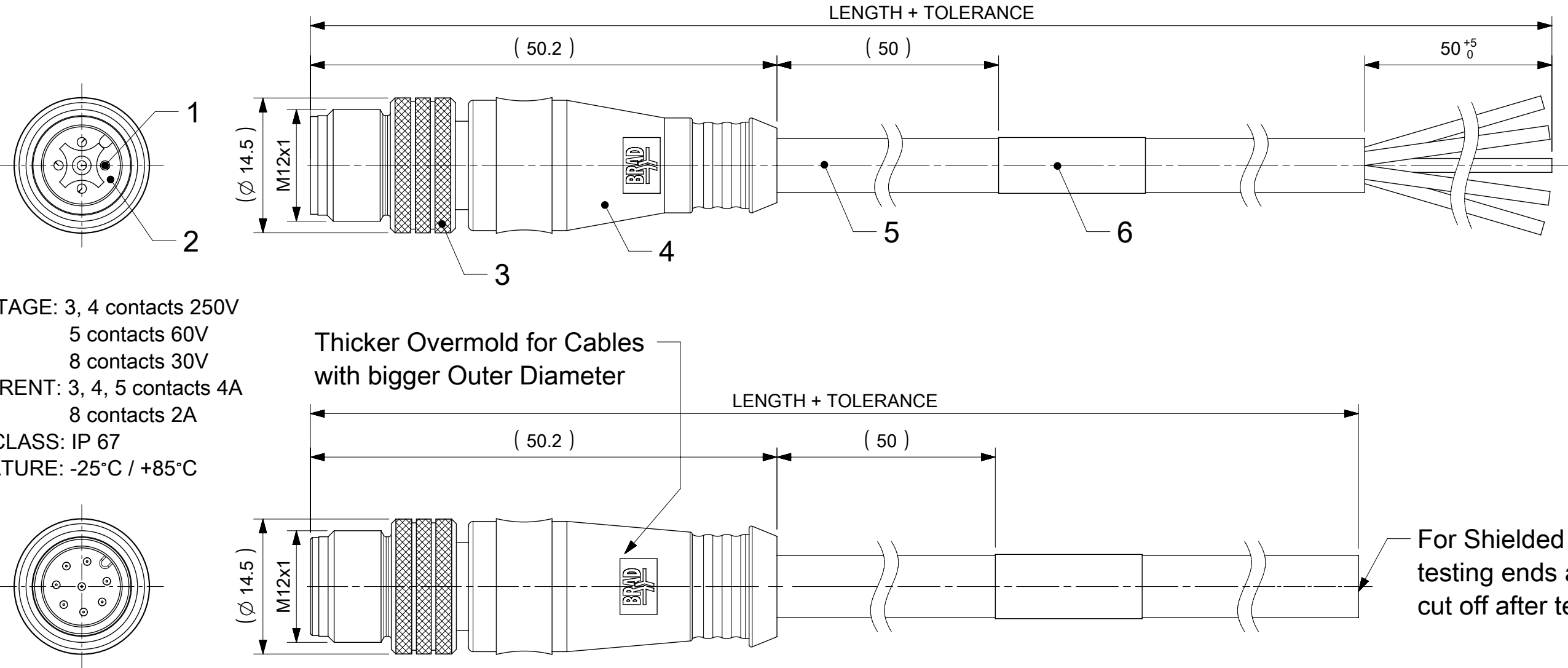


MALE PLUG M12 STRAIGHT



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

Thicker Overmold for Cables
with bigger Outer Diameter

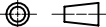
For Shielded Cables
testing ends are
cut off after test

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 mm		SCALE 2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		molex CSE M12 XP AC MA STR XM SE UNSH		
ANGULAR TOL ± 1.0 °				
4 PLACES	±			
3 PLACES	±			
2 PLACES	± 0.05			
1 PLACE	± 0.1	EC NO: 662770 DRWN: SUGEEB 2021/02/19 CHK'D: GGA 2021/06/02 APPR: GGA 2021/06/02		
0 PLACES	± 0.2	INITIAL REVISION: DRWN: JMARSZALEK 2016/01/13 APPR: RSILLER 2016/04/08		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION 	DRAWING A3-SIZE	SERIES 120065
		MATERIAL NUMBER SEE SHEET 3	CUSTOMER GENERAL MARKET	SHEET NUMBER 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

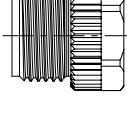
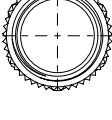
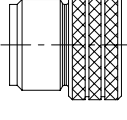
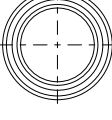
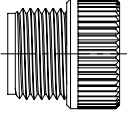
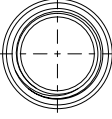
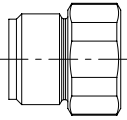
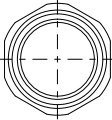
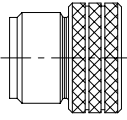
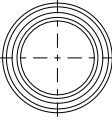


H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

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

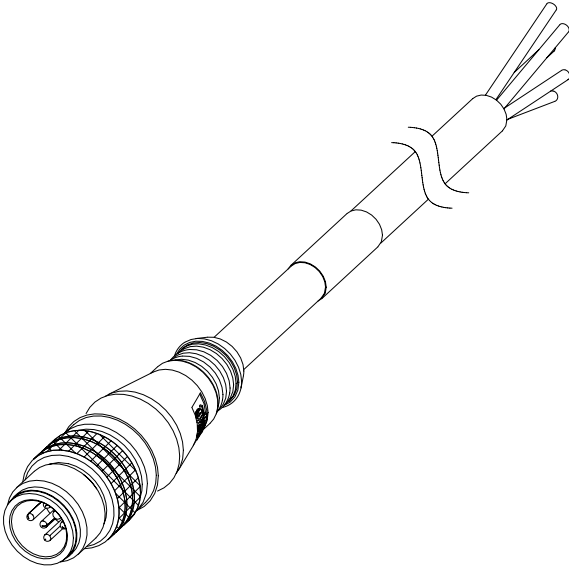
Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

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

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

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

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/13
2016/04/08

DOCUMENT NUMBER
1200650971

DOC TYPE
PSD

DOC PART
000

REVISION
A7

MATERIAL NUMBER
SEE SHEET 3

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 3

THIRD ANGLE PROJECTION

DRAWING
A3-SIZE

SERIES
120065

F

E

D

C

B

A

PART LIST

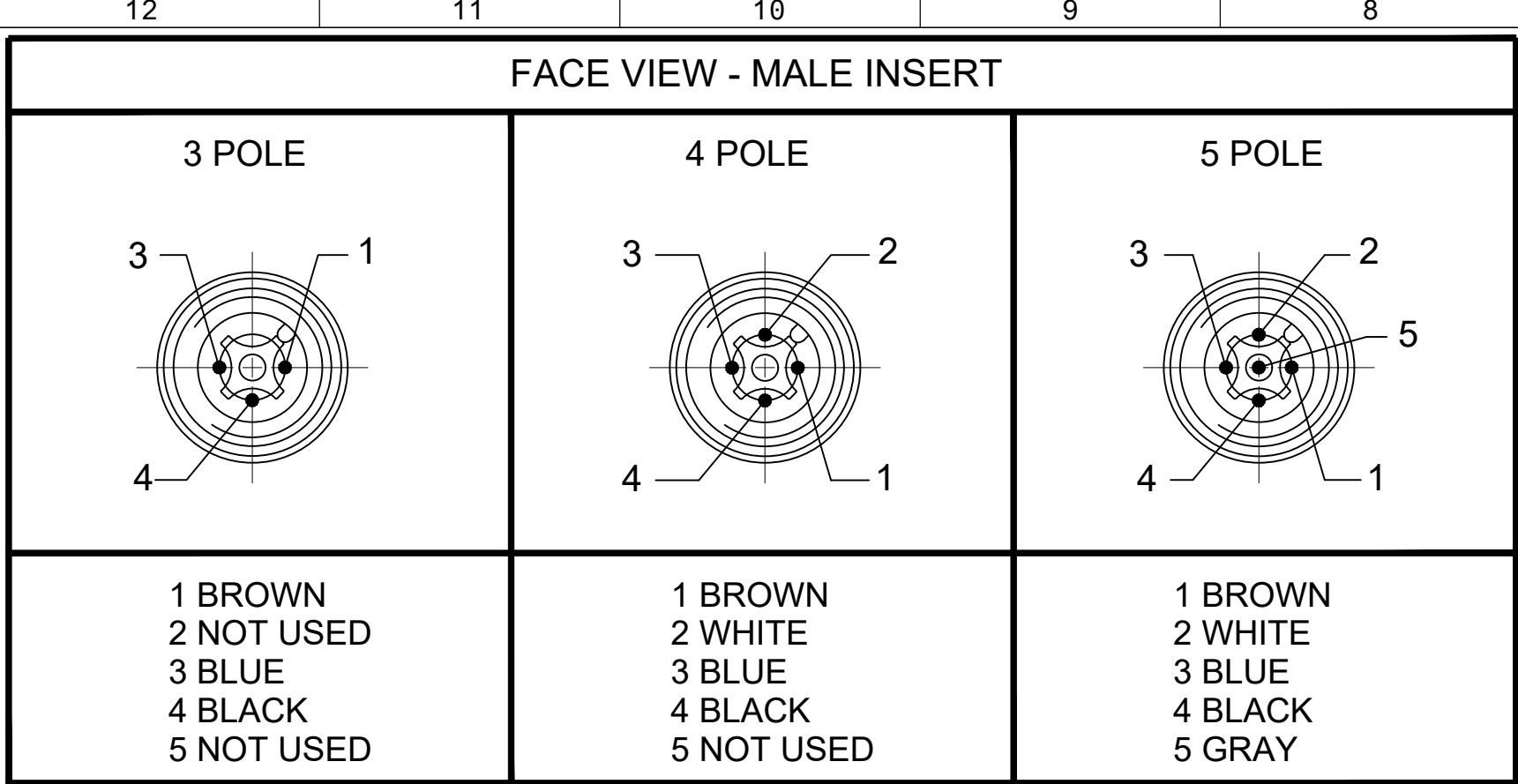
No.	Part No.	Engineering No.	Cable Length
1	1200060243	803006E52M050A	5m
2	1200060252	803006I03M020	2m
3	1200060253	803006I03M030	3m
4	1200060254	803006I03M050	5m
5	1200060565	804006I03M020	2m
6	1200060567	804006I03M050	5m
7	1200060568	804006I03M100	10m
8	1200060573	804006P82M0107	1m
9	1200060574	804006P82M020	2m
10	1200060576	804006P82M0507	5m
11	1200060578	804006S20M010	1m
12	1200060579	804006S20M020	2m
13	1200060581	804006S20M100	10m
14	1200060674	805006I03M005	0.5m
15	1200060675	805006I03M020	2m
16	1200060684	805006S26M020	2m
17	1200061023	804006I20M003	0.3m
18	1200061551	803006S20M050	5m
19	1200061663	804006E52M100A	10m
20	1200061664	804006E52M200A	20m
21	1200061781	805006I26M050	5m
22	1200062465	804006P82M0207	2m
23	1200062540	805006P12M010	1m
24	1200062541	805006P12M015	1.5m
25	1200062606	803006S20M100	10m
26	1200062618	805006P12M0035	0.3m
27	1200062770	805006P12M030	3m
28	1200063282	805006P20M010	1m
29	1200064014	803006P82M0067	0.6m
30	1200064375	803006P82M0107	1m
31	1200064444	805006I03C150	0.15m
32	1200650971	808006S19M010	1m
33	1200651133	804006K05M100	10m
34	1200651788	804006E52M005A	0.5m
35	1200651790	804006E52M050A	5m

No.	Part No.	Engineering No.	Cable Length
36	1200658029	804006P82M0057	0.5m
37	1200658170	805006S26M050	5m
38	1200658201	804006S20M050	5m
39	1200658325	804006I03M010	1m
40	1200658497	804006P20M150	15m
41	1200658595	803006I03M040	4m
42	1200658601	804006I03M040	4m
43	1200658961	804006S20M0201	2m
44	1200658962	804006S20M1001	10m
45	1200658965	804006S20M0501	5m
46	1200658973	805006S20M050	5m
47	1200659089	804006P82M0207Y	2m
48	1200659122	804006I03M050Y	5m
49	1200659174	805006S26M050H	5m
50	1200659347	804006S20M350	35m
51	1200659364	804006S20M010H	1m
52	1200699506	808006S19M020	2m
53	1200699507	808006S19M030	3m
54	1200699508	808006S19M050	5m
55	1200699509	808006S19M100	10m
56	1200064547	804006K03M100	10m
57	1200652151	805006K03M050	5m
58	1200651129	804006K05M020	2m
59	1200651131	804006K05M050	5m
60	1200651374	805006K03M020	2m
61			
62			
63			
64			
65			
66			
67			
68			
69			
70			

No.	Part No.	Engineering No.	Cable Length
71			
72			
73			
74			
75			
76			
77			
78			
79			
80			
81			
82			
83			
84			
85			
86			
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95			
96			
97			

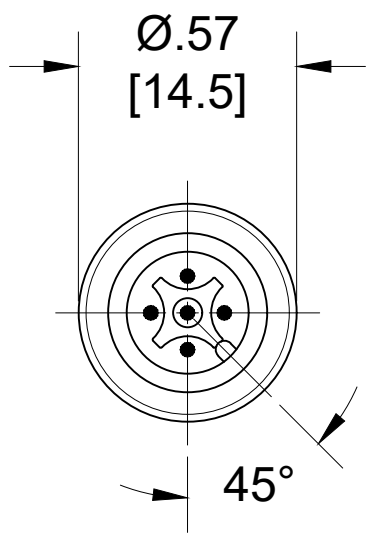
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4	3	2	1
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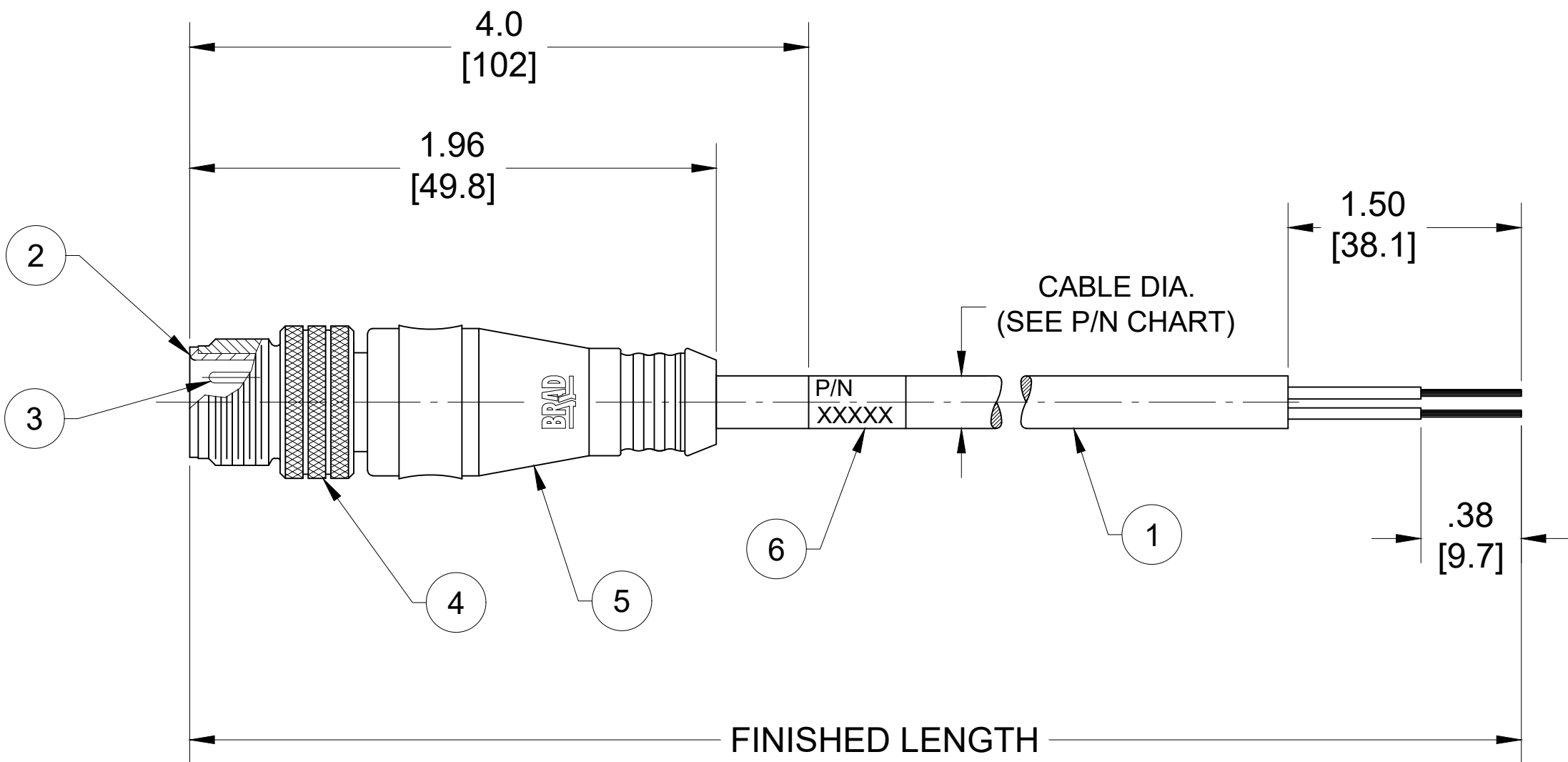
NOTES:

1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
4. TEMP RATING: -20°TO +105°C (B)
5. PROTECTION: IP67 (WHEN MATED)
6. COUPLING THREAD: M12X1
7. UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR6837
8. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE



(B)

PART NO	ENGINEERING NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200651113	803006K05M006	0.6M [2FT]	3	.20 [5.1]
1200652049	804006K05M150	15M [49FT 2 IN]	4	.21 [5.3]
1200652470	805006K05M300	30M [98FT 5 IN]	5	.23 [5.8]



CABLE FLEX CHARACTERISTICS

TORSIONAL FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
BEND FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
WELD SLAG RESISTANCE	WOODHEAD STANDARD S-300

6	WRAP LABEL	VINYL	BLACK/YELLOW
5	OVERMOLD	TPC	YELLOW
4	COUPLING NUT	BRASS	NICKEL PLATED
3	CONTACT PIN	COPPER ALLOY	GOLD OVER NICKEL
2	MALE INSERT	PUR	BLACK
1	#22 AWG CABLE	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

DOCUMENT STATUS	P1	RELEASE DATE	2021/07/28 23:37:21
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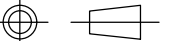
PART NO. MATRIX
803006K05M006

POLES
(3, 4 & 5)

FINISHED LENGTH
M005 = 0.5 METER
M010 = 1 METER
M100 = 10 METER

CABLE LENGTH TOLERANCES

<.3M [1FT]: +19mm-0 [+.75in-0]
.3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]
.9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]
1.8 - 3.7M [6 - 12FT]: +88.9mm-0 [+3.50in-0]
3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]
7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]
14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]
OVER 30M [100FT] +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																
	DIMENSION UNITS			SCALE			CURRENT REV DESC: ITEM #6 WAS TPE. MODIFIED TEMP RATING & PN CHART					molex MICRO-CHANGE CORDSET, M12, 3-5 POLE, MALE, STRAIGHT, SINGLE KEY, #22 AWG TPE HI-FLEX					
	INCH/MM			NTS													
	GENERAL TOLERANCES (UNLESS SPECIFIED)																
				mm		INCH		EC NO: 671333 DRWN: ABENJAMINLW 2021/04/30 CHK'D: RSTONE 2021/07/23 APPR: BWOODMAN 2021/07/28									
	4 PLACES			± ----		± ----											
	3 PLACES			± ----		± ----											
	2 PLACES			± ----		± ----											
	1 PLACE			± ----		± ----		PRODUCT CUSTOMER DRAWING									
	0 PLACES			± ----		± ----											
ANGULAR TOL			±		---- °												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			THIRD ANGLE PROJECTION			DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
						C-SIZE		120065		SEE CHART		GENERAL MARKET		1 OF 1			