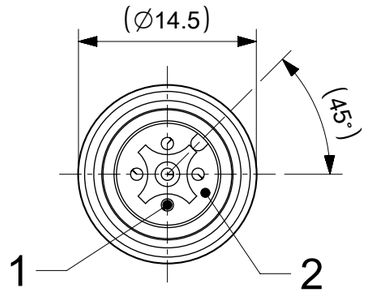
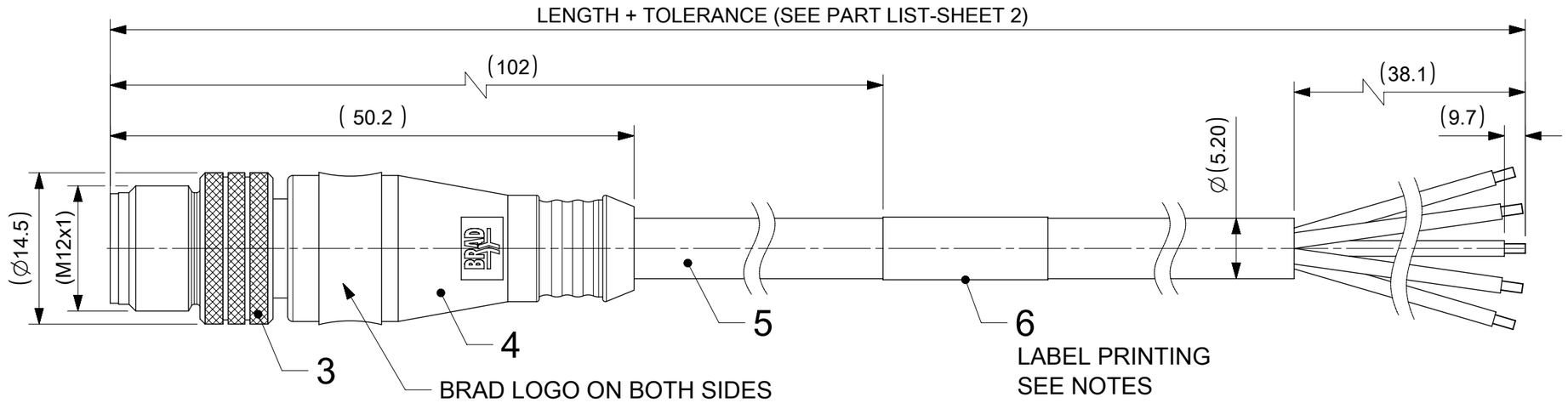
MALE PLUG M12 STRAIGHT

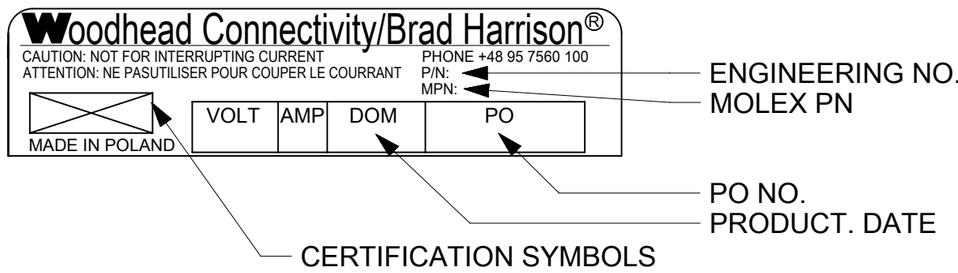




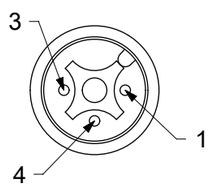
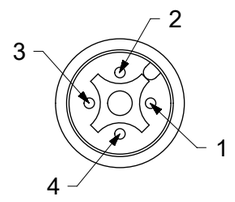
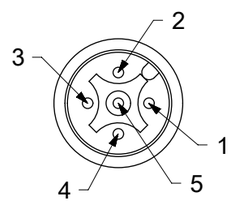
NOTES:

RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
RATED CURRENT: 3, 4, 5 contacts 4A
PROTECTION CLASS: IP 67 (WHEN MATED)
TEMPERATURE: -20° C TO +105° C
UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR6837
ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE
LABEL PRINTING ACC. STANDARD LABEL INSTRUCTION

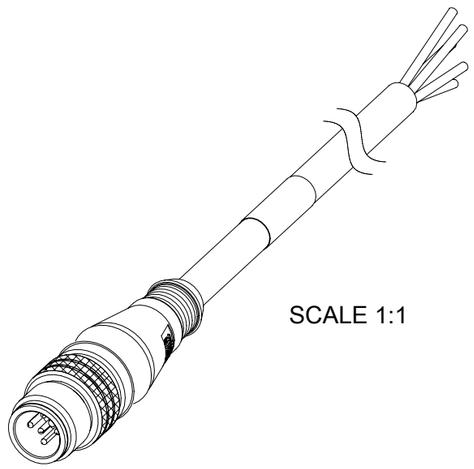
LABEL PRINTING



CONTACTS POSITION FRONT VIEW:

3 CONTACTS		4 CONTACTS		5 CONTACTS	
					
PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN
2	---	2	WHITE	2	WHITE
3	BLUE	3	BLUE	3	BLUE
4	BLACK	4	BLACK	4	BLACK
5	---	5	---	5	GRAY OR YELLOW/GREEN

CODING REQUIRED TO IEC 61076-2-101



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH /COLOR
6	1	WRAP LABEL	VINYL	YELLOW
5	-	CABLE	SEE SHEET 2	---
4	-	OVERMOLD	TPC	YELLOW
3	1	COUPLING NUT MALE	BRASS	SEE MATRIX
2	1	INSERT MALE	PUR	BLACK
1	3 / 4 / 5	CONTACT M12 MALE	BRASS	SELECTIVE Au OVER Ni

DOCUMENT STATUS	P1	RELEASE DATE	2023/07/14 14:26:05			

FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FD = 0
DIVISIONAL SYMBOLS

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)
ANGULAR TOL ± °
4 PLACES ±
3 PLACES ±
2 PLACES ±
1 PLACE ±
0 PLACES ±
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: FIRST RELEASE
EC NO: 756614
DRWN: RSCHIEBER 2023/05/09
CHK'D: RSILLER 2023/07/14
APPR: RSILLER 2023/07/14
INITIAL REVISION:
DRWN: RSCHIEBER 2023/05/09
APPR: RSILLER 2023/07/14

molex

CSE M12 XP AC MA STR TPE XM SE UNSH

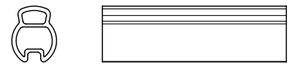
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200651113	PSD	000	A

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120065	SEE PART LIST	GENERAL MARKET	1 OF 2

FORMAT: master_Brad-A3
REVISION: J1
DATE: 2021/05/07

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



8	0	X	0	0	6	K	0	5	X	X	X	X	X

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

Units:
M=Meter
C=Centimeter

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

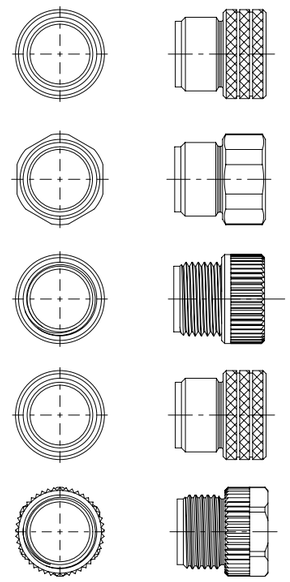
OPTIONS

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

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

COUPLING NUTS



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

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLTC	I/II A/B 90°C/300V

PART LIST

Part No.	Engineering No.	Cable Length
1200651113	803006K05M006	0.6 m
1200652219	803006K05M010	1 m
1200652035	803006K05M015	1.5 m
1200651114	803006K05M020	2 m
1200651115	803006K05M025	2.5 m
1200651116	803006K05M040	4 m
1200651117	803006K05M050	5 m
1200651118	803006K05M060	6 m
1200652437	803006K05M080	8 m
1200651119	803006K05M100	10 m
1200651128	804006K05M006	0.6 m
1200652082	804006K05M010	1 m
1200651129	804006K05M020	2 m
1200651363	804006K05M030	3 m
1200651130	804006K05M040	4 m
1200651131	804006K05M050	5 m
1200651132	804006K05M060	6 m
1200652436	804006K05M080	8 m
1200651133	804006K05M100	10 m
1200652049	804006K05M150	15 m
1200652506	804006K05M250	25 m
1200652461	805006K05M010	1 m
1200652462	805006K05M020	2 m
1200652463	805006K05M030	3 m

Part No.	Engineering No.	Cable Length
1200652464	805006K05M040	4 m
1200652465	805006K05M050	5 m
1200652466	805006K05M060	6 m
1200652467	805006K05M100	10 m
1200652468	805006K05M150	15 m
1200652469	805006K05M200	20 m
1200652470	805006K05M300	30 m

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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FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS: mm
SCALE: 1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± °
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: FIRST RELEASE
EC NO: 756614
DRWN: RSCHIEBER 2023/05/09
CHK'D: RSILLER 2023/07/14
APPR: RSILLER 2023/07/14

INITIAL REVISION:
DRWN: RSCHIEBER 2023/05/09
APPR: RSILLER 2023/07/14

molex

CSE M12 XP AC MA STR TPE XM SE UNSH

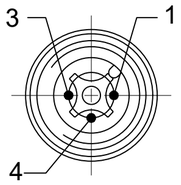
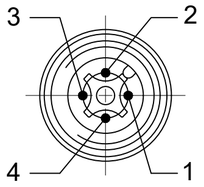
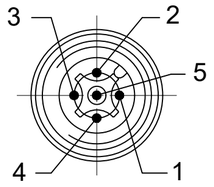
PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200651113	PSD	000	A

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120065	SEE PART LIST	GENERAL MARKET	2 OF 2

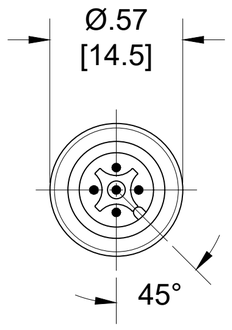
DOCUMENT STATUS	P1	RELEASE DATE	2023/07/14 14:26:05

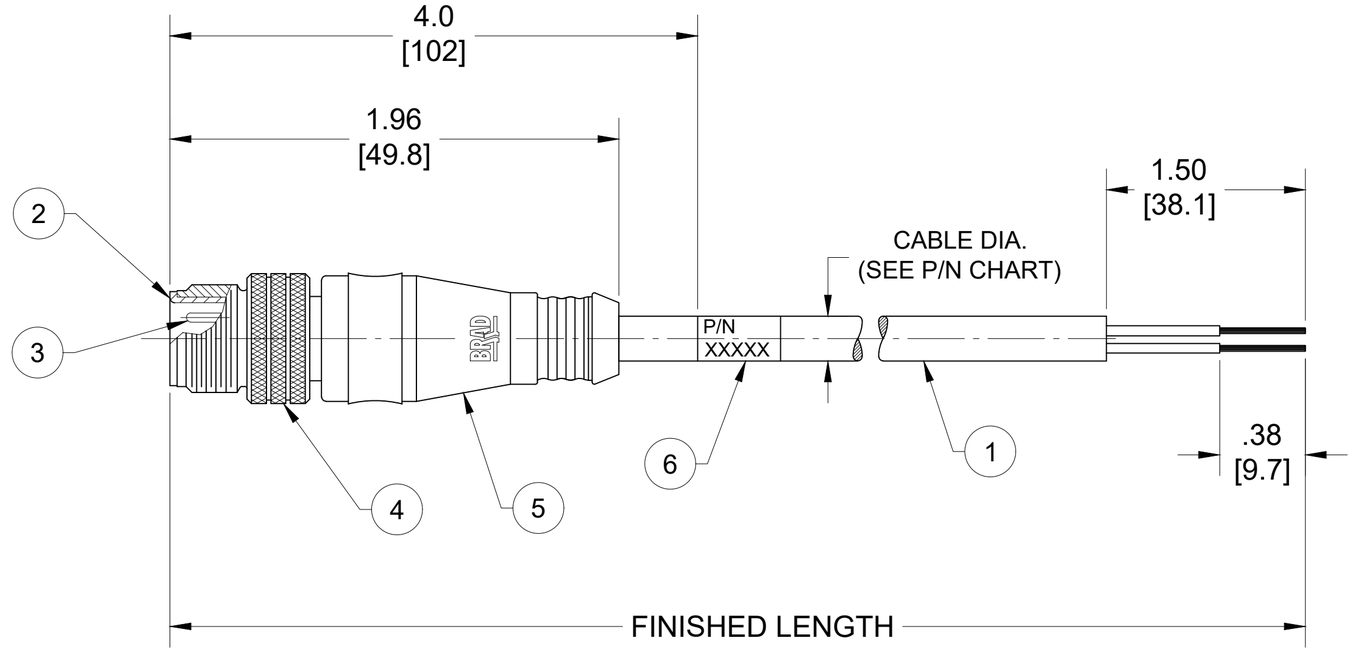
FORMAT: master_B_land-A3
REVISION: J1
DATE: 2021/05/05

FACE VIEW - MALE INSERT		
3 POLE	4 POLE	5 POLE
		
1 BROWN 2 NOT USED 3 BLUE 4 BLACK 5 NOT USED	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 NOT USED	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GRAY

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]

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





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	(B)
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	

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

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FUNCTIONAL SYMBOLS
FA=0
FC=0
FP=0
DIVISIONAL SYMBOLS

DIMENSION UNITS: INCH/MM
SCALE: NTS

GENERAL TOLERANCES (UNLESS SPECIFIED)

	mm	INCH
4 PLACES	±----	±----
3 PLACES	±----	±----
2 PLACES	±----	±----
1 PLACE	±----	±----
0 PLACES	±----	±----
ANGULAR TOL ±	---- °	

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ITEM #6 WAS TPE. MODIFIED TEMP RATING & PN CHART

EC NO: 671333
DRWN: ABENJAMINLW 2021/04/30
CHK'D: RSTONE 2021/07/23
APPR: BWOODMAN 2021/07/28

INITIAL REVISION:
DRWN: RSTONE 2018/11/01
APPR: BWOODMAN 2018/11/30

THIRD ANGLE PROJECTION | DRAWING: C-SIZE | SERIES: 120065 | MATERIAL NUMBER: SEE CHART | CUSTOMER: GENERAL MARKET | SHEET NUMBER: 1 OF 1

molex

MICRO-CHANGE CORDSET, M12,
3-5 POLE, MALE, STRAIGHT, SINGLE KEY,
#22 AWG TPE HI-FLEX

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120065-114	PSD	001	B

DOCUMENT STATUS	P1	RELEASE DATE	2021/07/28 23:37:21

FORMAT: IN-ACAD-tb-prod-C
REVISION: B
DATE: 2020/01/14