

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

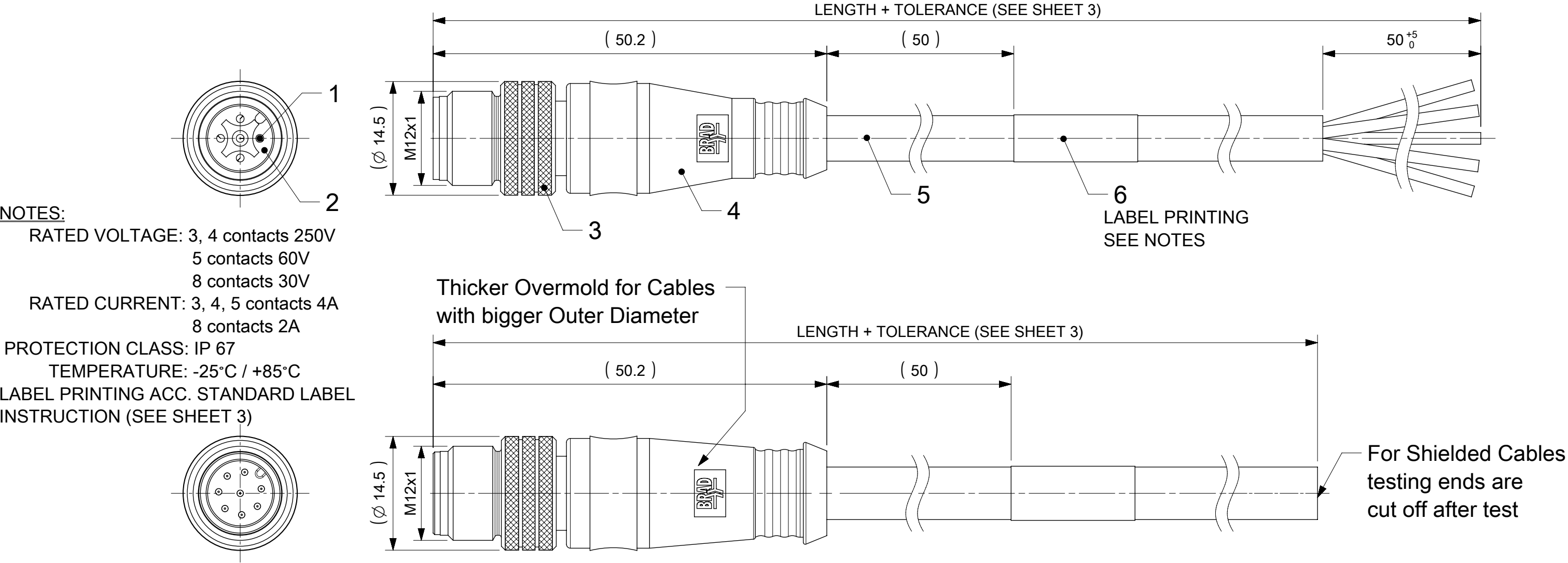
TEMPERATURE: -25°C / +85°C

LABEL PRINTING ACC. STANDARD LABEL INSTRUCTION (SEE SHEET 3)

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

FUNCTIONAL SYMBOLS

$\sqrt{A} = 0$

$\sqrt{E} = 0$

$\sqrt{F} = 0$

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

$\pm 1.0^\circ$

4 PLACES

$\pm$

3 PLACES

$\pm$

2 PLACES

± 0.05

1 PLACE

± 0.1

0 PLACES

± 0.2

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: ADDED NEW P/N'S, SORTED THE PART LIST USING THE CABLE TYPES

EC NO: 775967

DRWN: AKABADI

CHK'D: RSILLER

APPR: RSILLER

2023/10/22

2024/02/02

2024/02/02

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/13

2016/04/08

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE SHEET 3

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 3

molex

CSE M12 XP AC MA STR XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200650971

DOC TYPE

PSD

DOC PART

000

REVISION

A10

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

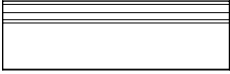
Heads style:
006=Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

OPTIONS

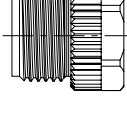
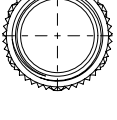
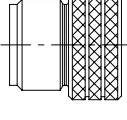
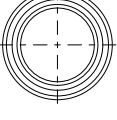
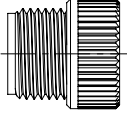
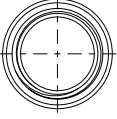
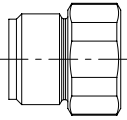
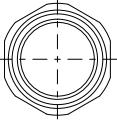
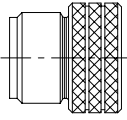
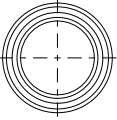


H= 2 pcs. of I/D Carrier
PVC Transparent
(Cables lxx & P82 always
with 2 pcs. of I/D Carrier
even if no H in
Engineering No.)

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

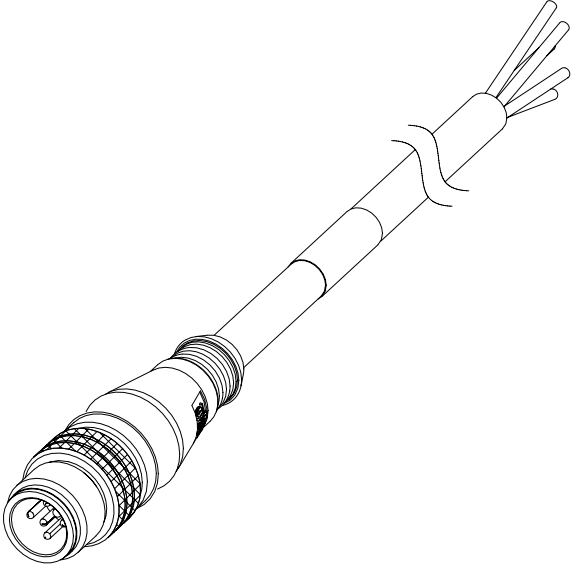
Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

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	-	-	-	-
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

FUNCTIONAL SYMBOLS

= 0

= 0

= 0

DIVISIONAL SYMBOLS

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DIMENSION UNITS

SCALE

CURRENT REV DESC: ADDED NEW P/N'S, SORTED THE PART LIST USING THE CABLE TYPES

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

EC NO: 775967

DRWN: AKABADI

CHK'D: RSILLER

APPR: RSILLER

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

2023/10/22

2024/02/02

2024/02/02

2016/01/13

2016/04/08

A3-SIZE

120065

SEE SHEET 3

GENERAL MARKET

2 OF 3



CSE M12 XP AC MA STR XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

1200650971

PSD

000

A10

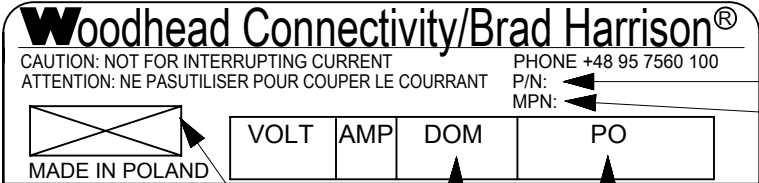
PART LIST

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE E52		
1200060243	803006E52M050A	5000
4P CABLE E52		
1200651788	804006E52M005A	500
1200651790	804006E52M050A	5000
1200061663	804006E52M100A	10000
1200061664	804006E52M200A	20000
8P CABLE E52		
1200657336	808006E52M005	500
3P CABLE I03		
1200060252	803006I03M020	2000
1200060253	803006I03M030	3000
1200658595	803006I03M040	4000
1200060254	803006I03M050	5000
4P CABLE I03		
1200658325	804006I03M010	1000
1200060565	804006I03M020	2000
1200658601	804006I03M040	4000
1200060567	804006I03M050	5000
1200659122	804006I03M050Y	5000
1200060568	804006I03M100	10000
5P CABLE I03		
1200064444	805006I03C150	150
1200060674	805006I03M005	500
1200060675	805006I03M020	2000
4P CABLE I20		
1200061023	804006I20M003	300
5P CABLE I26		
1200061781	805006I26M050	5000

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE K03		
1200652024	804006K03M006	600
1200651357	804006K03M010	1000
1200651359	804006K03M020	2000
1200652025	804006K03M036	3600
1200651361	804006K03M050	5000
1200064547	804006K03M100	10000
5P CABLE K03		
1200651374	805006K03M020	2000
1200652151	805006K03M050	5000
5P CABLE P12		
1200062618	805006P12M0035	300
1200062540	805006P12M010	1000
1200062541	805006P12M015	1500
1200062770	805006P12M030	3000
4P CABLE P20		
1200658497	804006P20M150	15000
5P CABLE P20		
1200063282	805006P20M010	1000
3P CABLE P82		
1200064014	803006P82M0067	600
1200064375	803006P82M0107	1000
8P CABLE S19		
1200650971	808006S19M010	1000
1200699506	808006S19M020	2000
1200699507	808006S19M030	3000
1200699508	808006S19M050	5000
1200699509	808006S19M100	10000

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE S20		
1200061551	803006S20M050	5000
1200062606	803006S20M100	10000
4P CABLE S20		
1200060578	804006S20M010	1000
1200659364	804006S20M010H	1000
1200060579	804006S20M020	2000
1200658961	804006S20M0201	2000
1200658201	804006S20M050	5000
1200658965	804006S20M0501	5000
1200060581	804006S20M100	10000
1200658962	804006S20M1001	10000
1200659347	804006S20M350	35000
5P CABLE S20		
1200658973	805006S20M050	5000
5P CABLE S26		
1200060684	805006S26M020	2000
1200658170	805006S26M050	5000
1200659174	805006S26M050H	5000

LABEL PRINTING



ENGINEERING NO.
MOLEX PN

PO NO.
PRODUCT. DATE

CERTIFICATION SYMBOLS

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			
	mm	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			
DIVISIONAL SYMBOLS	CURRENT REV DESC: ADDED NEW P/N'S, SORTED THE PART LIST USING THE CABLE TYPES				
	EC NO: 775967				
	DRWN: AKABADI	2023/10/22			
	CHK'D: RSILLER	2024/02/02			
	APPR: RSILLER	2024/02/02			
	INITIAL REVISION:				
	DRWN: JMARSZALEK	2016/01/13			
	APPR: RSILLER	2016/04/08			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
	THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
	A3-SIZE	120065	SEE PART LIST	GENERAL MARKET	3 OF 3

molex

CSE M12 XP AC MA STR XM SE

PRODUCT CUSTOMER DRAWING

1200650971

PSD 000 A10