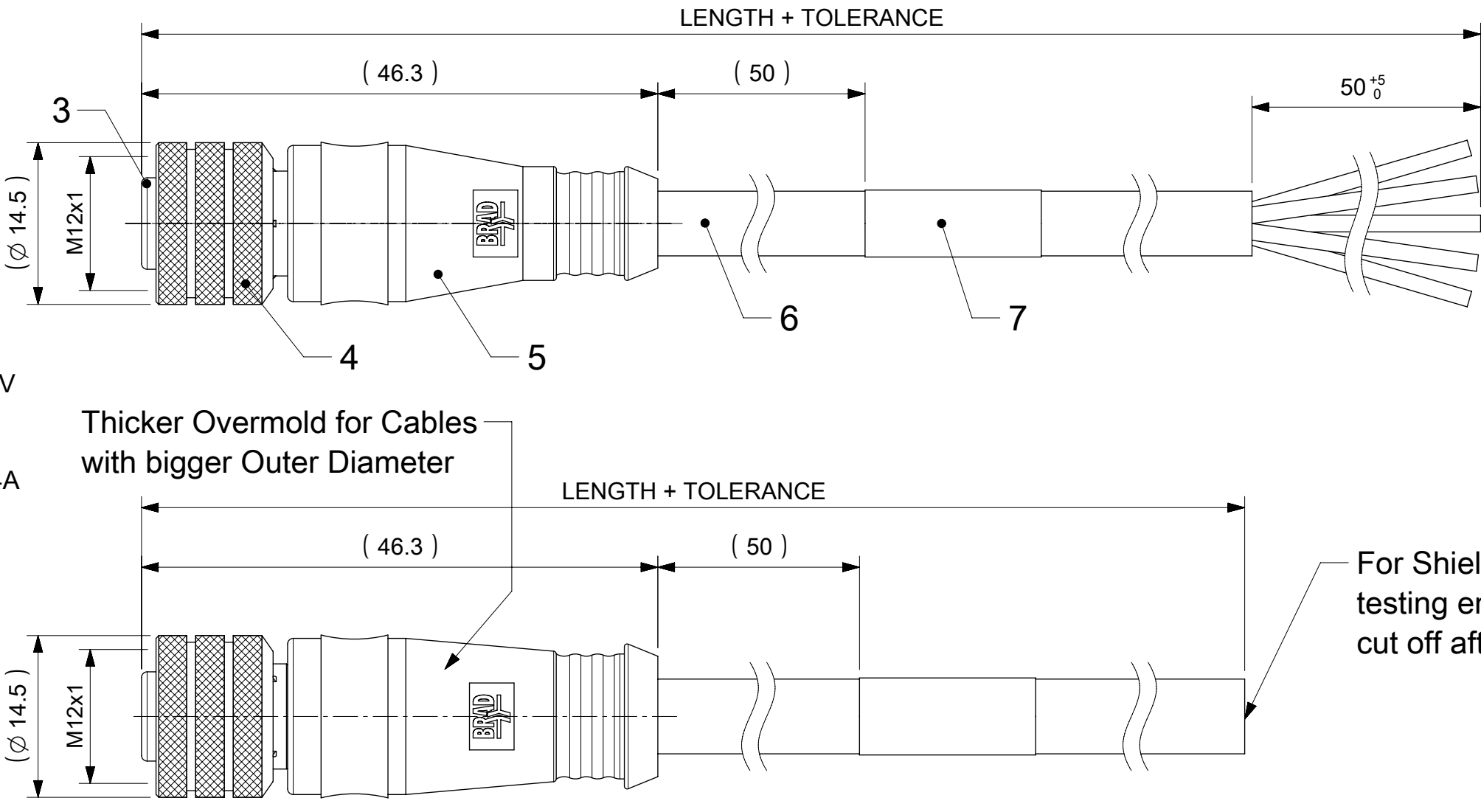


FEMALE PLUG M12 STRAIGHT

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

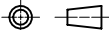


CONTACTS POSITION FRONT VIEW:

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 OR YELLOW/GREEN	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY 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

7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT M12 FEMALE	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		CURRENT REV DESC: ADDED NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022		
mm		molex CSE M12 XP AC FE STR XM SE UNSH		
SCALE 2:1				
GENERAL TOLERANCES (UNLESS SPECIFIED)		PRODUCT CUSTOMER DRAWING		
ANGULAR TOL ± 1.0 °				
4 PLACES ±		EC NO: 775470		
3 PLACES ±		DRWN: AKABADI 2023/10/22		
2 PLACES ± 0.05		CHK'D: THAERDT 2024/01/30		
1 PLACE ± 0.3		APPR: THAERDT 2024/01/30		
0 PLACES ± 0.5		INITIAL REVISION:		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: JMARSZALEK 2016/01/12		
		APPR: RSILLER 2016/04/08		
THIRD ANGLE PROJECTION		DOCUMENT NUMBER		
		1200658605		
DRAWING		DOC TYPE		DOC PART
A3-SIZE		PSD		000
SERIES		REVISION		A7
120065		MATERIAL NUMBER		
		CUSTOMER		
		SHEET NUMBER		
		SEE PART LIST		
		GENERAL MARKET		
		1 OF 4		

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

80X000XX

80=M12x1
Single ended

X

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

000

Heads style:
000=Plug Female Straight

XX

Cable type: See Table

XX

Units:
M=Meter
C=Centimeter

XX

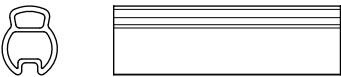
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

XX

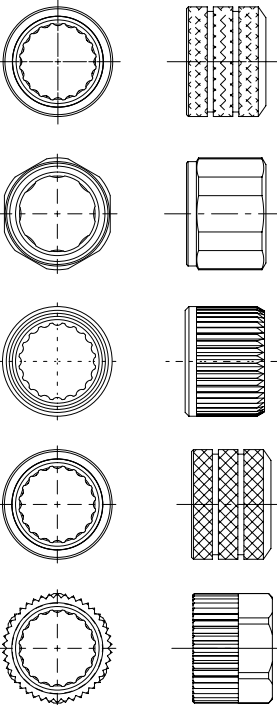
Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables A09,S19,S20,S26
Blank=Yellow TPE-E for cables K03,K05
A=Grey / G=Black / Y=Yellow

X

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

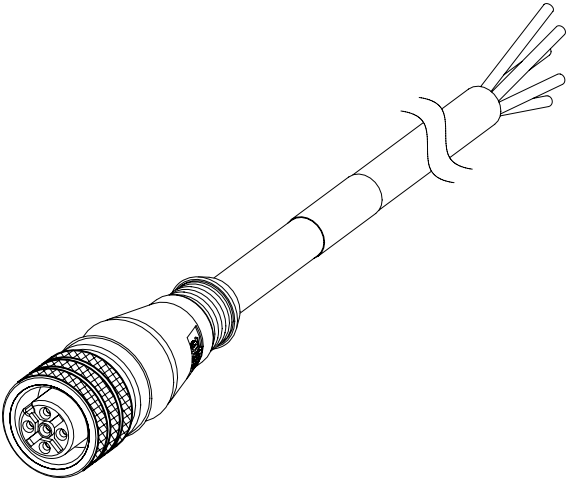


COUPLING NUTS



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
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E63	5	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
H12	4	0.50mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-50°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000, Temp max 60°C	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
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	-	-
I04	4	0.50mm²	PVC CEI GREY	-	-	-25°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	-	-
P19	8	0.25mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	2 000 000 cycles, 15xO.D.	YES
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	SCALE	CURRENT REV DESC: ADDED NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022
mm	1:1	
GENERAL TOLERANCES (UNLESS SPECIFIED)		
ANGULAR TOL	±	1.0 °
4 PLACES	±	
3 PLACES	±	
2 PLACES	±	0.05
1 PLACE	±	0.3
0 PLACES	±	0.5
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		

EC NO: 775470
DRWN: AKABADI
CHK'D: THAERDT
APPR: THAERDT

2023/10/22
2024/01/30
2024/01/30

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/12
2016/04/08

DOCUMENT NUMBER
1200658605

DOC TYPE
PSD

DOC PART
000

REVISION
A7

MATERIAL NUMBER
SEE PART LIST

CUSTOMER
GENERAL MARKET

SHEET NUMBER
2 OF 4

FORMAT: master-b-prod-A3
REVISION: 11
DATE: 2021/05/01

987654321

10	9	8	7	6	5	4	3	2	1
PART LIST									
MOLEX P/N			ENGINEERING No.		L [mm]				
3P CABLE E13									
1200658524	803000E13M030		3000						
3P CABLE E52									
1200651767	803000E52M050A		5000						
1200658293	803000E52M3001A		30000						
4P CABLE E52									
1200064254	804000E52M010A		1000						
1200651778	804000E52M050A		5000						
1200651857	804000E52M100A		10000						
1200060436	804000E52M200A		20000						
1200061620	804000E52M3001A		30000						
1200063819	804000E52K0011A		100000						
8P CABLE E52									
1200657335	808000E52M005		500						
1200658236	808000E52M020		2000						
1200062049	808000E52M050		5000						
1200659997	808000E52M100		10000						
5P CABLE E63									
1200658015	805000E63M020A		2000						
1200061936	805000E63M050A		5000						
4P CABLE H12									
1200659593	804000H12M020		2000						
1200659767	804000H12M0209		2000						
1200659768	804000H12M0309		3000						
1200659113	804000H12M050		5000						
1200659769	804000H12M0509		5000						
1200659271	804000H12M100		10000						
1200659770	804000H12M1009		10000						
3P CABLE H69									
1200062094	803000H69M050		5000						
4P CABLE H69									
1200061680	804000H69M050		5000						
1200658242	804000H69M300		30000						
8P CABLE I02									
1200658677	808000I02M010		1000						
1200658678	808000I02M020		2000						
1200658679	808000I02M030		3000						
1200658680	808000I02M040		4000						
1200658681	808000I02M050		5000						
1200658682	808000I02M100		10000						

NOTES:

★ - Part No. with Yellow PVC overmolding

MOLEX P/N		ENGINEERING No.		L [mm]					
3P CABLE I03									
1200060145	803000I03M020		2000						
1200659119	803000I03M020Y		2000						
1200658593	803000I03M040		4000						
1200060030	803000I03M050		5000						
1200659064	803000I03M050Y		5000						
1200060148	803000I03M100		10000						
4P CABLE I03									
1200658599	804000I03M010		1000						
1200658701	804000I03M010G		1000						
1200060452	804000I03M020		2000						
1200658702	804000I03M020G		2000						
1200659075	804000I03M020Y		2000						
1200060454	804000I03M030		3000						
1200658703	804000I03M030G		3000						
1200659177	804000I03M030Y		3000						
1200658600	804000I03M040		4000						
1200658704	804000I03M040G		4000						
1200060017	804000I03M050		5000						
1200658705	804000I03M050G		5000						
1200659060	804000I03M050Y		5000						
1200063205	804000I03M060		6000						
1200064230	804000I03M080		8000						
1200060033	804000I03M100		10000						
1200061970	804000I03M100A		10000						
1200658706	804000I03M100G		10000						
1200659065	804000I03M100Y		10000						
1200061955	804000I03M200A		20000						
1200061956	804000I03M300A		30000						
1200061957	804000I03M400A		40000						
5P CABLE I03									
1200658605	805000I03M010		1000						
1200658283	805000I03M020		2000						
1200060644	805000I03M030		3000						
1200658606	805000I03M040		4000						
1200062003	805000I03M050		5000						
1200063824	805000I03M050G		5000						
1200659085	805000I03M050Y		5000						
1200060645	805000I03M100		10000						
1200655025	805000I03M100G		10000						
1200659371	805000I03M100Y		10000						

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: ADDED NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022			mo lex						
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)													
ANGULAR TOL ± 1.0 °													
4 PLACES ±		EC NO: 775470			2023/10/22		PRODUCT CUSTOMER DRAWING						
3 PLACES ±		DRWN: AKABADI			2024/01/30								
2 PLACES ± 0.05		CHK'D: THAERDT			2024/01/30								
1 PLACE ± 0.3		APPR: THAERDT											
0 PLACES ± 0.5		INITIAL REVISION:			2016/01/12		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION		
		DRWN: JMARSZALEK			2016/04/08		1200658605		PSD	000	A7		
		APPR: RSILLER											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
				A3-SIZE		120065		SEE PART LIST		GENERAL MARKET		3 OF 4	

DOCUMENT STATUS	P1	RELEASE DATE	2024/01/30	10:40:43					
10	9	8	7	6	5	4	3	2	1

