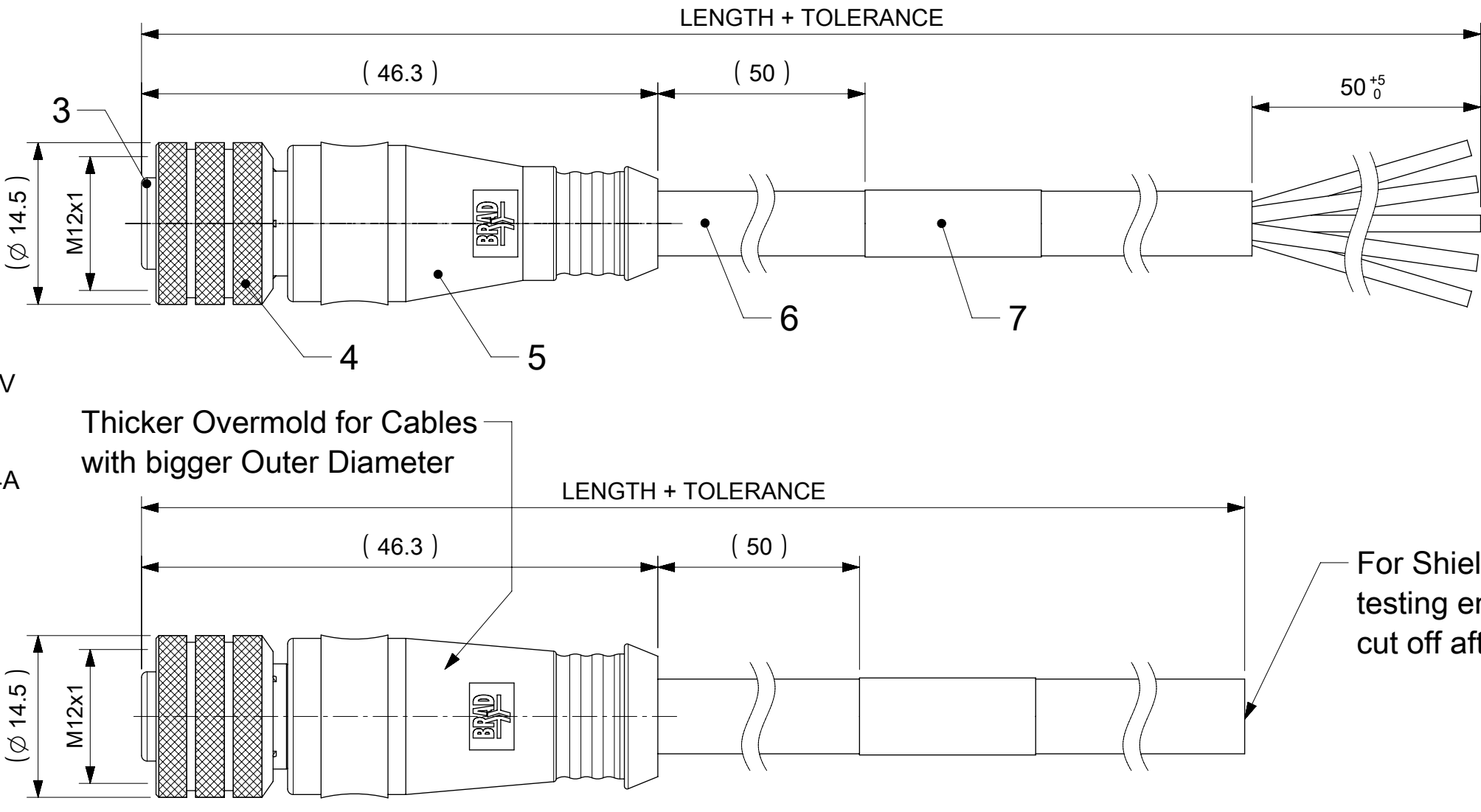


FEMALE PLUG M12 STRAIGHT

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

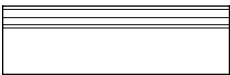
CODING REQUIRED TO IEC 61076-2-101

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		2:1		
GENERAL TOLERANCES (UNLESS SPECIFIED)		molex CSE M12 XP AC FE STR XM SE UNSH PRODUCT CUSTOMER DRAWING		
ANGULAR TOL ± 1.0 °				
4 PLACES ±				
3 PLACES ±				
2 PLACES ± 0.05		2023/10/22		
1 PLACE ± 0.3		2024/01/30		
0 PLACES ± 0.5		2024/01/30		
INITIAL REVISION:		DOCUMENT NUMBER		
DRWN: JMARSZALEK		1200658605		
APPR: RSILLER		DOC TYPE		
2016/01/12		PSD		
2016/04/08		DOC PART		
THIRD ANGLE PROJECTION		000		
DRAWING		A7		
SERIES		SHEET NUMBER		
A3-SIZE		120065		
MATERIAL NUMBER		SEE PART LIST		
CUSTOMER		GENERAL MARKET		
SHEET NUMBER		1 OF 4		

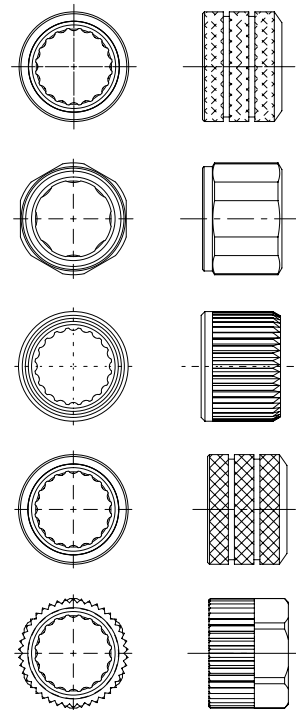
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

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.)

COUPLING NUTS



80=M12x1
Single ended

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

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

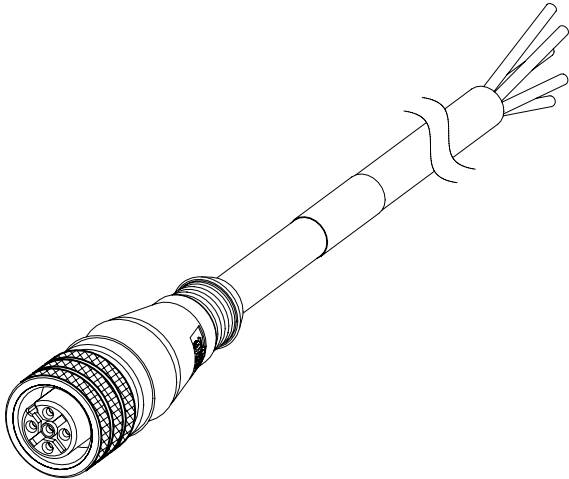
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

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
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	

CURRENT REV DESC: ADDED NEW P/N:
1200651287; 1200651293; 1200651300; 1200652022

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

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

2023/10/22

2024/01/30

2024/01/30

2016/01/12

2016/04/08

2023/10/22

2024/01/30

2024/01/30

2016/01/12

2016/04/08

2016/01/12

2016/04/08

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

1200658605

PSD

000

A7

SEE PART LIST

GENERAL MARKET

2 OF 4

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

DOCUMENT STATUS	P1	RELEASE DATE	2024/01/30	10:40:43						
FORMAT: master-ib-prod-A3 REVISION: J1 DATE: 2021/05/01										
9		8		7	6	5	4	3	2	1

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				

MOLEX P/N			ENGINEERING No.		L [mm]				
4P CABLE I04									
1200063562			804000I04M030		3000				
1200659621			804000I04M050		5000				
3P CABLE I20									
1200061559			803000I20M100		10000				
1200659558			803000I20M100Y		10000				
4P CABLE I20									
1200064164			804000I20M020		2000				
1200658221			804000I20M050		5000				
1200064161			804000I20M100		10000				
1200658543			804000I20M150		15000				
5P CABLE I26									
1200658817			805000I26M010		1000				
1200061727			805000I26M050		5000				
1200659116			805000I26M050Y		5000				
1200062969			805000I26M100		10000				
1200659090			805000I26M100Y		10000				
4P CABLE K03									
1200652022			804000K03M006		600				
1200651287			804000K03M010		1000				
1200651293			804000K03M050		5000				
1200651300			804000K03M100		10000				
5P CABLE K03									
1200651367			805000K03M020		2000				
1200651370			805000K03M050		5000				
1200651373			805000K03M100		10000				
3P CABLE K05									
1200651108			803000K05M020		2000				
1200651110			803000K05M050		5000				
4P CABLE K05									
1200651121			804000K05M020		2000				
1200651122			804000K05M030		3000				
1200651124			804000K05M050		5000				
1200651126			804000K05M100		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						CSE M12 XP AC FE STR XM SE UNSH				
3 PLACES		±		DRWN: AKABADI 2023/10/22										
2 PLACES		±	0.05	CHK'D: THAERDT 2024/01/30 APPR: THAERDT 2024/01/30										
1 PLACE		±	0.3	INITIAL REVISION:						DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES		±	0.5	DRWN: JMARSZALEK 2016/01/12 APPR: RSILLER 2016/04/08						1200658605		PSD	000	A7
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	

