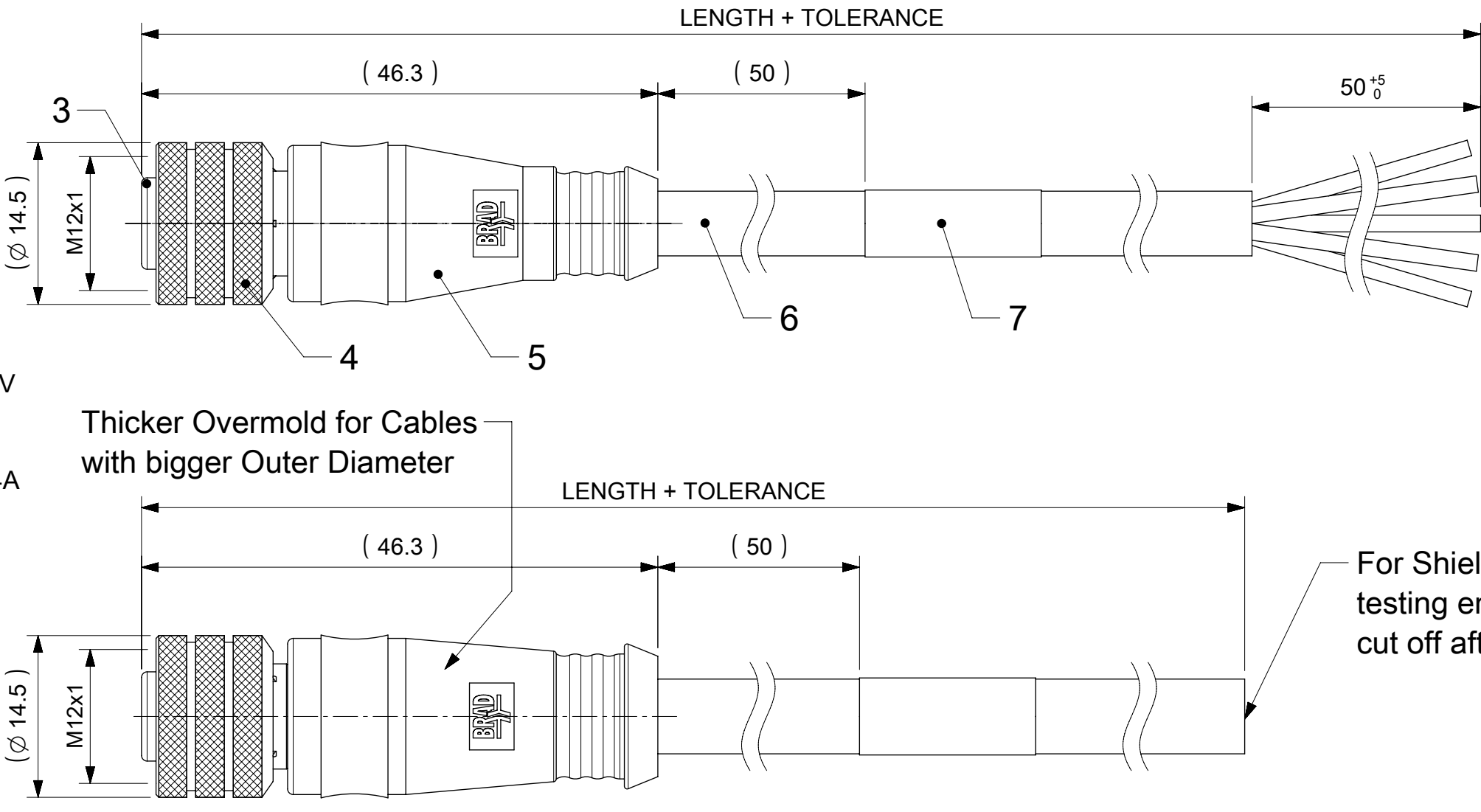


FEMALE PLUG M12 STRAIGHT

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

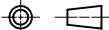


CONTACTS POSITION FRONT VIEW:

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		
SCALE		molex CSE M12 XP AC FE STR XM SE UNSH PRODUCT CUSTOMER DRAWING		
mm				
2:1				
GENERAL TOLERANCES (UNLESS SPECIFIED)				
ANGULAR TOL ± 1.0 °		EC NO: 775470		
4 PLACES ±		DRWN: AKABADI 2023/10/22		
3 PLACES ±		CHK'D: THAERDT 2024/01/30		
2 PLACES ± 0.05		APPR: THAERDT 2024/01/30		
1 PLACE ± 0.3		INITIAL REVISION:		
0 PLACES ± 0.5		DRWN: JMARSZALEK 2016/01/12		
		APPR: RSILLER 2016/04/08		
DOCUMENT NUMBER		DOC TYPE		
1200658605		PSD		
DOC PART		REVISION		
000		A7		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES
		A3-SIZE	120065	MATERIAL NUMBER
		SEE PART LIST	CUSTOMER	SHEET NUMBER
		GENERAL MARKET		1 OF 4

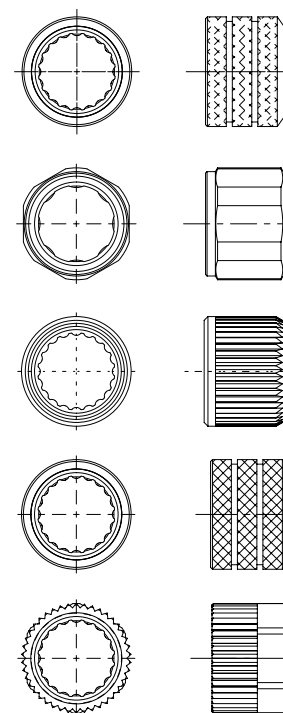
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).



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

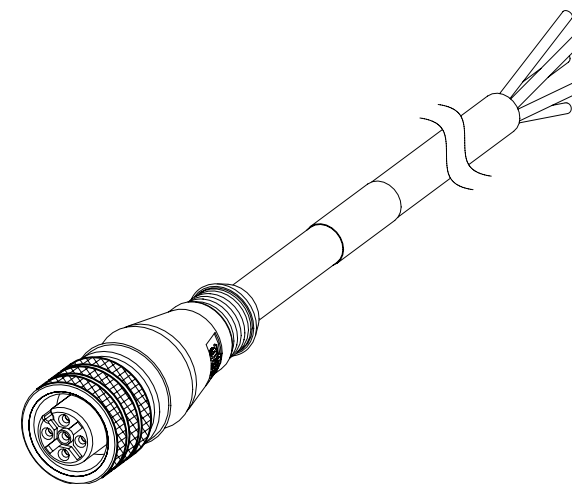
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

DOCUMENT STATUS	P1	RELEASE DATE	2024/01/30	10:40:43
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DIMENSION UNITS		SCALE		CURRENT REV DESC: ADDED NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022					molex						
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR XM SE UNSH											
ANGULAR TOL ± 1.0°															
4 PLACES		±		EC NO: 775470					PRODUCT CUSTOMER DRAWING						
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					DOCUMENT NUMBER 1200658605				DOC TYPE	DOC PART	REVISION
0 PLACES ± 0.5				INITIAL REVISION: DRWN: JMARSZALEK 2016/01/12 APPR: RSILLER 2016/04/08									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		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														
10		9		8		7		6		5		4		3		2		1	

