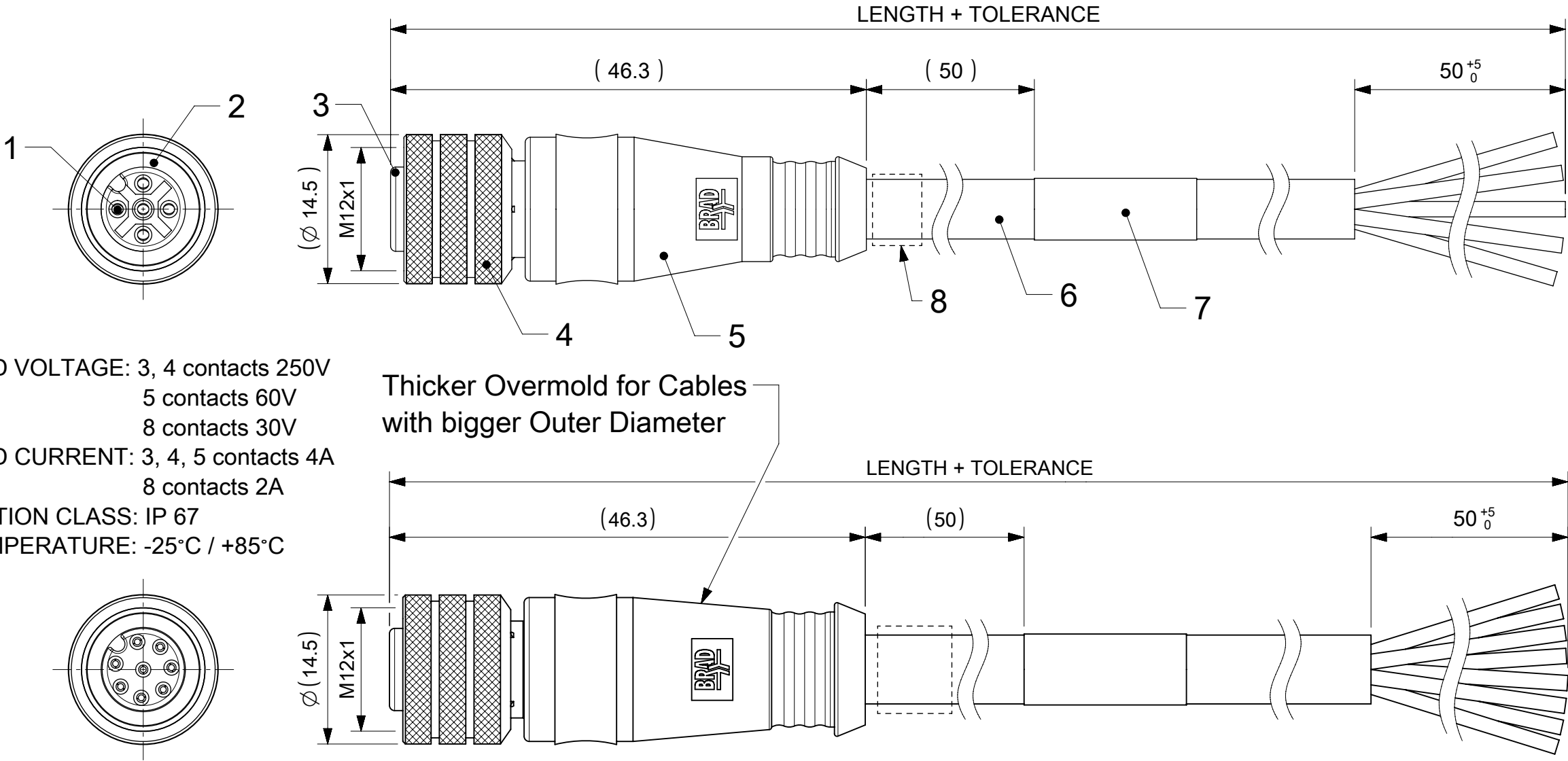


FEMALE PLUG M12 STRAIGHT



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

Thicker Overmold for Cables
with bigger Outer Diameter

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	GREY	5	GREY
						6	PINK
						7	BLUE
						8	RED
CODING REQUIRED TO IEC 61076-2-101							

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

8	SEE MATRIX	ID CARRIER	PVC	TRANSPARENT
7	1	LABEL YELLOW	VINYL	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING	TPU	SEE PART LIST
4	1	COUPLING NUT FEMALE	SEE PART LIST	SEE PART LIST
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	SELECTIVE Au OVER Ni
	8		BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS

$\sqrt{A}$

$\sqrt{E}$

$\sqrt{F}$

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 ± 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:

EC NO: 703046
DRWN: APAWLAK01
CHK'D: RSILLER
APPR: RSILLER

2022/04/12
2022/04/14
2022/04/14

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/01/11
2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200651978

DOC TYPE

PSD

DOC PART

000

REVISION

A10

SEE SHEET 3-4

GENERAL MARKET

1 OF 4

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

OPTIONS

8	0	X	0	0	0	X	X	X	X	X	X	X	X
---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

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

Overmold color:
Blank (Standard)=Black
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 _____
9=Knurled / Hexagonal Brass Ni Plated _____

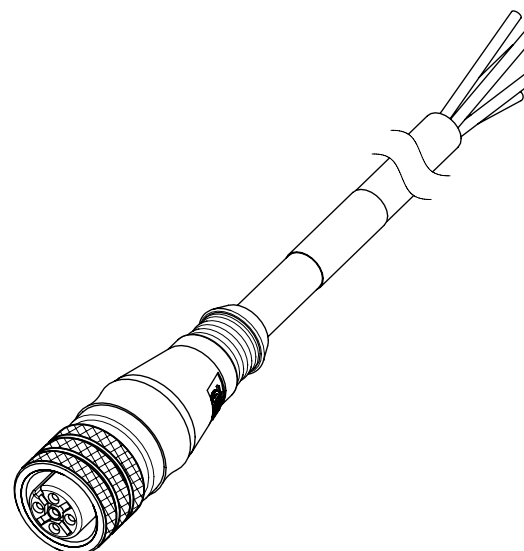
H= 2 pcs. of I/D Carrier PVC Transparent

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	SHIEL
E02	3 / 4 / 5 / 8	0.25mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
E03	3 / 4 / 5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H08	3 / 4 / 5 / 8	0.25mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles at 20°C, Temp. range +5°C to +60°C	-
P02	3 / 4 / 5 / 8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-

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



SCALE 1:1

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	CURRENT REV DESC:			molex				
FA = 0	mm	1:1								
FE = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)		CSE M12 XP AC FE STR XM SE UNSH							
FF = 0	ANGULAR TOL ± 1.0 °									
DIVISIONAL SYMBOLS	4 PLACES	±	EC NO: 703046 DRWN: APAWLAK012022/04/12 CHK'D: RSILLER2022/04/14 APPR: RSILLER2022/04/14			PRODUCT CUSTOMER DRAWING				
	3 PLACES	±								
	2 PLACES	± 0.05	INITIAL REVISION: DRWN: JMARSZALEK2016/01/11 APPR: RSILLER2016/04/08			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	1 PLACE	± 0.3				1200651978		PSD	000	A10
	0 PLACES	± 0.5								
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER
			A3-SIZE	120065	SEE SHEET 3-4	GENERAL MARKET		2 OF 4		

DOCUMENT STATUS	P1	RELEASE DATE	2022/04/14	06:15:29
-----------------	----	--------------	------------	----------

	10	9	8	7	6	5	4	3	2	1		
PART LIST												
F	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
	142	1200658492	804000P03M100G	10m	176	1200658780	805000H09M200	20m	217	1200659123	804000P03M100HY	10m
	143	1200658502	805000E03M005	0.5m	177	1200658782	804000E03M060	6m	218	1200659144	805000H09M300	30m
	144	1200658503	805000E03M0201	2m	178	1200658812	808000E02M150	15m	219	1200659187	808000E02M4001	40m
	145	1200658511	808000E02M010	1m	179	1200658813	808000H08M025	2.5m	221	1200659200	808000E02M250H	25m
	146	1200658525	808000P02C350	0.35m	181	1200658880	804000H09M200	20m	222	1200659207	805000E03C230	0.23m
	147	1200658545	804000P03M015	1.5m	182	1200658882	804000E03M100H	10m	223	1200659214	805000P03M300	30m
	148	1200658550	804000H09M015	1.5m	183	1200658887	803000E03M020H	2m	224	1200659256	808000E02M200	20m
	149	1200658551	808000E02M1001	10m	184	1200658889	803000E03M050H	5m	225	1200659279	805000E03M007	0.7m
	150	1200658562	803000E03M010	1m	185	1200658891	804000H09M003	0.3m	226	1200659280	805000E03M350	35m
E	151	1200658563	803000E03M040	4m	186	1200658894	804000E03M020G	2m	227	1200659282	805000P03M005	0.5m
	152	1200658570	804000E03M040	4m	187	1200658896	804000E03M075	7.5m	228	1200659283	805000P03M007	0.7m
	153	1200658590	808000E02M030	3m	188	1200658899	808000H08M250	25m	229	1200659302	804000P03M1005	10m
	154	1200658591	808000E02M040	4m	192	1200658927	804000P02M050	5m	230	1200659326	805000P03M020H	2m
	155	1200658592	805000E03M040	4m	194	1200658930	808000H08M150	15m	231	1200659329	805000P03M150H	15m
	156	1200658609	804000P02M020	2m	196	1200658983	804000E03M002	0.2m	232	1200659330	805000P03M200H	20m
	157	1200658610	803000P03M040	4m	197	1200658984	808000E02M2501	25m	233	1200659334	808000P02M200H	20m
	161	1200658632	805000H09M010	1m	199	1200658991	805000P03M100H	10m	234	1200659340	804000P03M1501	15m
	162	1200658633	805000H09M015	1.5m	200	1200659038	804000E02M100	10m	235	1200659341	804000P03M2501	25m
	163	1200658634	805000H09M030	3m	201	1200659040	804000E02M050	5m	236	1200659368	805000E03M015	1.5m
D	164	1200658635	805000H09M040	4m	202	1200659052	808000E02M2001	20m	237	1200659370	804000P03M020Y	2m
	165	1200658636	803000H09M010	1m	203	1200659053	808000E02M3001	30m	238	1200659387	808000E02M500	50m
	166	1200658637	803000H09M015	1.5m	209	1200659088	804000P03M050HY	5m	239	1200659388	804000P03M012	1.2m
	167	1200658638	803000H09M030	3m	210	1200659092	808000P02M050Y	5m	241	1200659397	808000P02M100Y	10m
	168	1200658639	803000H09M040	4m					242	1200659399	808000P02M015	1.5m
	169	1200658640	804000H09M010	1m					243	1200659474	804000P03M250	25m
	170	1200658641	804000H09M040	4m					244	1200659475	804000P03M300	30m
	171	1200658642	808000H08M010	1m					245	1200659509	805000E03M600	60m
	172	1200658643	808000H08M015	1.5m								
	173	1200658644	808000H08M020	2m								
C	174	1200658645	808000H08M030	3m								
	175	1200658646	808000H08M040	4m								
NOTES:												
✱ - Part No. with Yellow PVC overmolding												
✱✱ - Part No. with Black PVC overmolding												
A	DOCUMENT STATUS										P1	
	RELEASE DATE										2022/04/14 06:15:29	
	9										8	
	7										6	
	5										4	
	3										2	
	1											