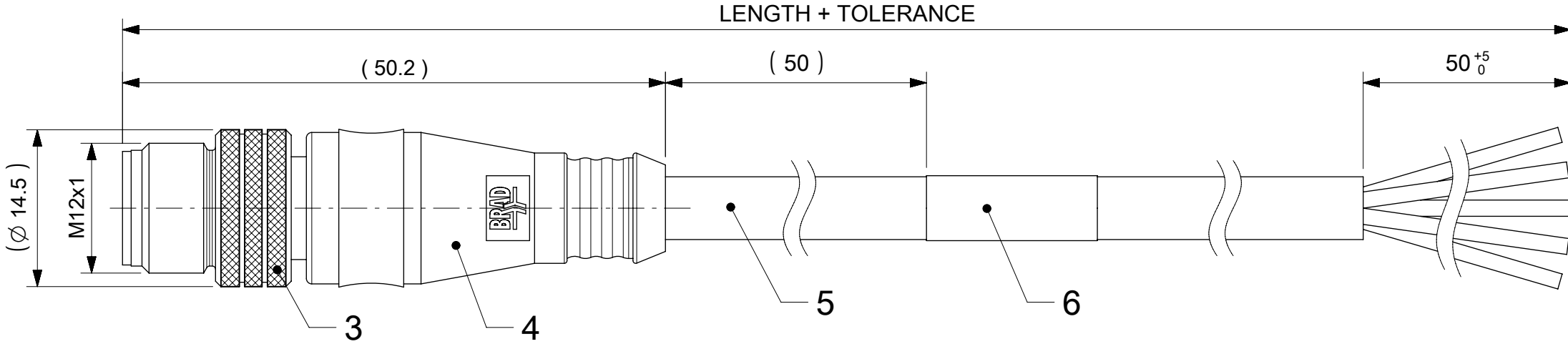
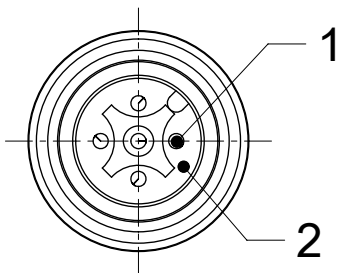
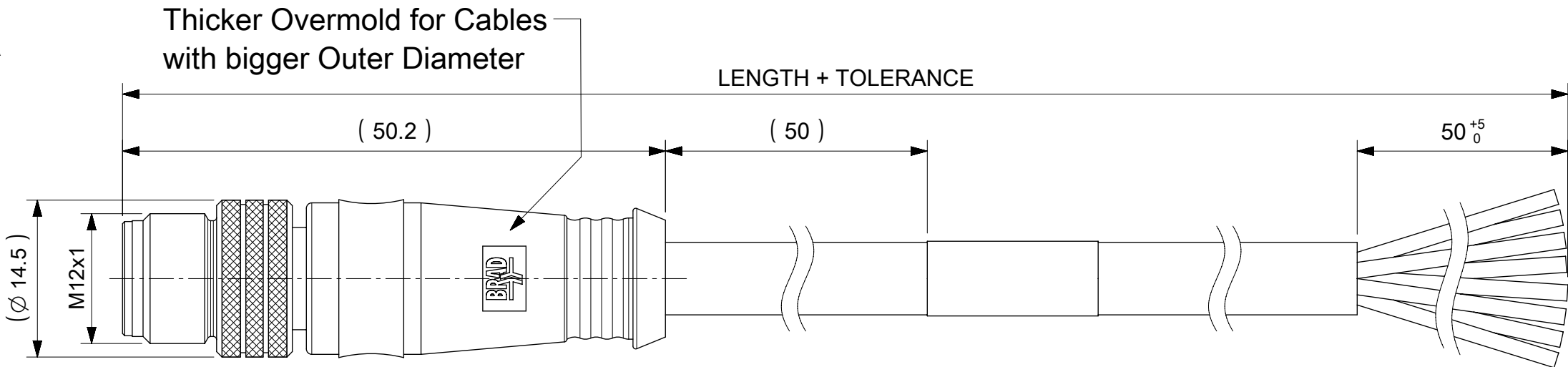
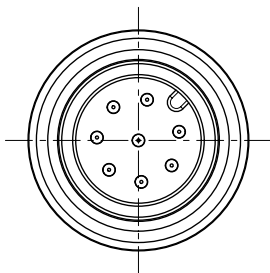


MALE PLUG M12 STRAIGHT



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



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

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	SEE MATRIX	D CARRIER	PVC	TRANSPARENT
6	1	LABEL YELLOW	VINYL	---
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		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
FA= 0 FE= 0 FD= 0 DIVISIONAL SYMBOLS		DIMENSION UNITS		SCALE		CURRENT REV DESC: NEW P/N ADDED				molex CSE M12 XP AC MA STR XM SE UNSH				
		mm		2:1										
		GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 780340 DRWN: RSCHIEBER 2024/03/14 CHK'D: RSILLER 2024/03/18 APPR: RSILLER 2024/03/18				PRODUCT CUSTOMER DRAWING				
		ANGULAR TOL ± 1.0 °												
4 PLACES		±		1 PLACE										± 0.3
3 PLACES		±		2 PLACES		± 0.05		DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION	
2 PLACES		± 0.05		1 PLACE		± 0.3		1200659185		PSD		000	A12	
0 PLACES		± 0.5		0 PLACES		± 0.5		2016/01/12 2016/04/08		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		SEE TABLE		GENERAL MARKET		1 OF 4
						A3-SIZE		120065						

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

OPTIONS

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

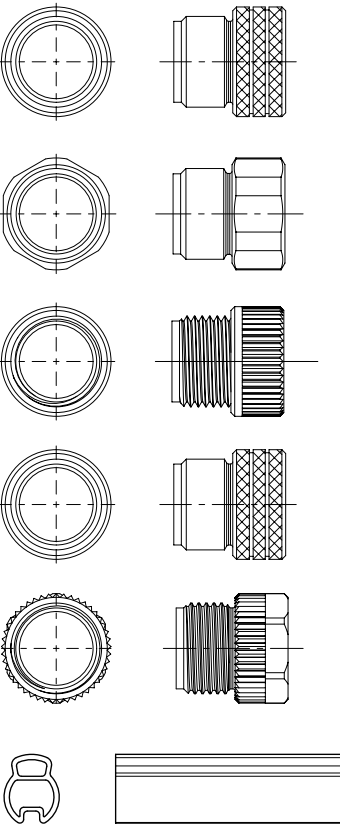
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

Overmold color:
Blank (Standard)=Black
A=Grey / G=Black / Y=Yellow
For Cable A09=Yellow

Coupling Nut:
Blank (Standard) & 3=Knurled Brass Ni Plated
1 or 8=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

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

COUPLING NUTS

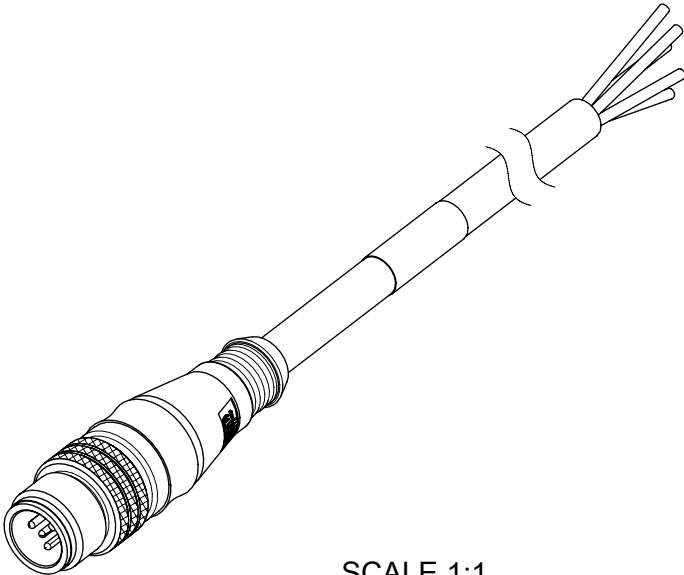


CABLE INFORMATION (for more information see Cable Data Sheet).

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
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.	-	-
A09	3	0.34mm²	PVC YELLOW	-	-	-	-	-	-
K03	5	0.82mm²	TPE YELLOW	-	-	-	-	-	-
K05	4	0.38mm²	TPE YELLOW	-	-	-	-	-	-

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

√A=

0

√E=

0

√E=

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

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

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

2 OF 4

CURRENT REV DESC: NEW P/N ADDED

EC NO: 780340

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2024/03/14

2024/03/18

2024/03/18

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/12

2016/04/08

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

000

REVISION

A12

molex

CSE M12 XP AC MA STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

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
	1	1200060046	804006E03M120	12m	36	1200062596	805006E03M003	0.3m	71	1200652158	805006P03M100	10m
	2	1200060047	804006P03M050	5m	37	1200062631	805006P03M120	12m	72	1200655011	805006P03M005	0.5m
	3	1200060240	803006E03M020	2m	38	1200062799	805006E03M010	1m	73	1200655051	805006E03M006	0.6m
	4	1200060241	803006E03M050	5m	39	1200062830	804006E03M0205	2m	74	1200658055	803006P03M003	0.3m
E	5	1200060242	803006E03M100	10m	40	1200062877	804006E03M0505	5m	75	1200658092	805006P03M010	1m
	6	1200060256	803006P03M002	0.2m	41	1200062920	804006E03M1005	10m	76	1200658109	808006P02M003	0.3m
	7	1200060257	803006P03M020	2m	42	1200063018	803006P03M0303	3m	77	1200658209	805006E03M0061	✱ 0.6m
	8	1200060260	803006P03M030	3m	43	1200063077	804006E02M005	0.5m	78	1200658247	803006H09M100	10m
	9	1200060261	803006P03M050	5m	44	1200063470	804006E03M010H	1m	79	1200658248	803006H09M050	5m
D	10	1200060558	804006E03M006	0.6m	45	1200063472	804006P03M200	20m	80	1200658463	804006P03M150	15m
	11	1200060559	804006E03M010	1m	46	1200063731	805006P03M0065	0.6m	81	1200658500	805006E03M1001	10m
	12	1200060560	804006E03M020	2m	47	1200063732	804006E03M0501	5m	82	1200658518	804006E03M0201H	2m
	13	1200060561	804006E03M030	3m	48	1200063733	804006E03M1001	✱ 10m	83	1200658519	804006E03M0501H	5m
	14	1200060562	804006E03M050	5m	49	1200063856	804006E03M1501	✱ 15m	84	1200658526	803006E03M005	0.5m
C	15	1200060563	804006E03M100	10m	50	1200063941	804006P03M0401	4m	85	1200658542	804006E03M070	7m
	16	1200060570	804006P03M020	2m	51	1200063953	805006E03M035	3.5m	86	1200658546	808006E02M050	5m
	17	1200060571	804006P03M030	3m	52	1200063969	804006E03M2001	✱✱ 20m	87	1200658565	803006E03M010	1m
	18	1200060572	804006P03M100	10m	53	1200064160	803006P03M005	0.5m	88	1200658566	803006E03M040	4m
	19	1200060667	805006E03M020	2m	54	1200064231	804006E03M2501	✱ 25m	89	1200658571	804006E03M040	4m
B	20	1200060668	805006E03M030	3m	55	1200064240	804006P03M070	7m	90	1200658576	808006E02M010	1m
	21	1200060680	805006P03M020	2m	56	1200064251	804006E03M003	0.3m	91	1200658612	803006P03M040	4m
	22	1200060682	805006P03M050	5m	57	1200064252	804006E03M005	0.5m	92	1200658613	803006P03M100	10m
	23	1200061345	805006E03M050	5m	58	1200064261	804006P03M011	1.1m	93	1200658653	803006H09M010	1m
	24	1200061611	803006E03M150	15m	59	1200064347	804006P03M007	0.7m	94	1200658654	80	

FORMAT: master-tb-prod-A3
REVISION: J1
DATE: 2021/05/01

PART LIST

No.	Part No.	Engineering No.	Cable Length
141	1200659191	804006P03M300	30m
142	1200659192	804006P03M350	35m
143	1200659193	804006P03M400	40m
144	1200659194	804006E03M250	25m
145	1200659195	804006E03M300	30m
146	1200659196	804006E03M350	35m
147	1200659197	804006E03M400	40m
148	1200659198	804006E03M450	45m
149	1200659224	805006P03M200	20m
150	1200659225	805006P03M300	30m
151	1200659254	804006E03M500	50m
152	1200659281	805006P03M150	15m
153	1200659285	805006E03M150	15m
154	1200659316	805006P03M005H	0.5m
155	1200659317	805006P03M007H	0.7m
156	1200659318	805006P03M010H	1m
157	1200659319	805006P03M020H	2m
158	1200659320	805006P03M050H	5m
159	1200659321	805006P03M100H	10m
160	1200659322	805006P03M150H	15m
161	1200659323	805006P03M200H	20m
162	1200659324	805006P03M300H	30m
163	1200659325	805006P03M350H	35m
164	1200659367	805006E03M015	1.5m
165	1200659454	805006E03M045	4.5m
166	1200659455	805006E03M075	7.5m
167	1200659513	805006E03M030H	3m
168	1200659514	805006E03M045H	4.5m
169	1200659515	805006E03M075H	7.5m
170	1200659550	804006E03M120H	12m
171	1200659551	805006E03M010H	1m
172	1200659557	804006P03M003	0.3m
173	1200659612	804006P03M080	8m
174	1200659692	803006E02M020	2m
175	1200659983	804006E02M075	7.5m

No.	Part No.	Engineering No.	Cable Length
176	1200659991	804006E02M0705	7m
177	1200656021	804006H09M050H	5m
178	1200659539	808006E02M100	✱✱ 10m
179	1200656293	803006E03M080	8m
180	1200656294	803006E03M120	12m
181	1200656295	804006E03M080	8m
182	1200656297	808006H08M005	0.5m
183	1200650843	803006A09M0208	✱ 2m
184	1200651374	805006K03M020	2m
185	1200652151	805006K03M050	5m
186	1200651129	804006K05M020	2m
187	1200651131	804006K05M050	5m
188	1200651133	804006K05M100	10m
189	1200657191	805006E03M005	0.5m
190	1200656974	805006H09M003	0.3m
191	1200657157	804006P03M002	0.2m
192	1200657158	804006P03M005	0.5m
193	1200657159	804006E03M015	1.5m
194	1200657263	805006H09M250	25m
195	1200650977	805006H08M005	0.5m
196			
197			
198			
199			
200			
201			
202			
203			
204			
205			
206			
207			
208			
209			
210			

No.	Part No.	Engineering No.	Cable Length
211			
212			
213			
214			
215			
216			
217			
218			
219			
220			
221			
222			
223			
224			
225			
226			
227			
228			
229			
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231			
232			
233			
234			
235			
236			
237			
238			
239			
240			
241			
242			
243			
244			
245			

No.	Part No.	Engineering No.	Cable Length
246			
247			
248			
249			
250			
251			
252			
253			
254			
255			
256			
257			
258			
259			
260			
261			
262			
263			
264			
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267			
268			
269			
270			
271			
272			
273			
274			
275			
276			
277			
278			
279			
280			

NOTES:
✱ - Part No. with Yellow PVC overmolding
✱✱ - Part No. with Black PVC overmolding

FUNCTIONAL SYMBOLS

FA

=

0

FE

=

0

FE

=

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

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

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

4 OF 4

CURRENT REV DESC: NEW P/N ADDED

EC NO: 780340

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2024/03/14

2024/03/18

2024/03/18

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/12

2016/04/08

molex

CSE M12 XP AC MA STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

000

REVISION

A12

DOCUMENT STATUS

P1

RELEASE DATE

2024/03/18

07:49:31

FORMAT: master-b-prod-A3

REVISION: J1

DATE: 2021/05/01

9

8

7

6

5

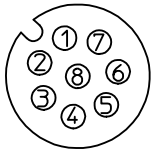
4

3

2

1

8 POLE MM

FEMALE INSERT 3P
VIEW FROM FRONT SIDE

Pin	WIRE COLOR	Wire color
1	WHITE	WH
2	BROWN	BN
3	GREEN	GN
4	YELLOW	YE
5	GREY	GY
6	PINK	PK
7	BLUE	BU
8	RED	RD

Tablica tolerancji długości

Table of length tolerances

Powyżej Over	Do-włącznie Up to and including	Tolerancja (+) Tolerance
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% długości of length

PART No MATRIX

8

B-Micro
Change

0

B-Portable

8

B-3 Core
4-4 Core
5-5 Core

0

B06+ Male straight

0

6

X

X

X

M

M-Metres
F-Feet

X

X

X

X

X

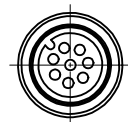
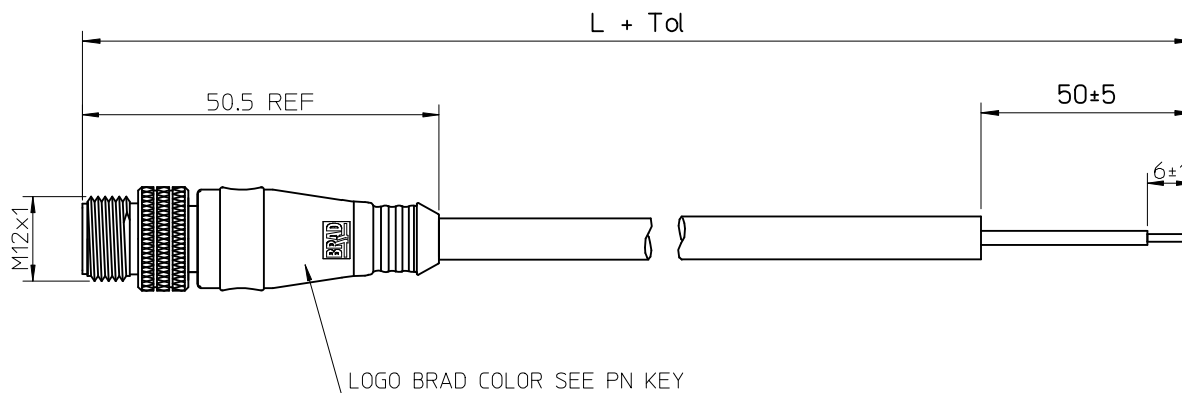
X

X

X

X

OVERMOULD COLOR

Blank=BLACK (Standard)
A=GREY
Y=YELLOWCoupling Nut Material
Blank-Standard
S-Stainless Steel
5-5mmVIEW FROM
FRONT SIDE

DRAWING UPDATE EC NO: IPG2013-0156 DRWN:HWALCZAK 2012/07/03 CHKD: APPR:MIWASIECZKO 2012/10/11	QUALITY SYMBOLS ▽=0 ▽=0	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION STYLE		SCALE	DESIGN UNITS	FIRST ANGLE PROJECTION				
			MM ONLY		---	METRIC					
			mm	INCH	DRAWN BY	DATE	TITLE				
			4 PLACES	± ---	± ---	HWALCZAK	2012/02/10	CSE M12 8P AC MA STR			
			3 PLACES	± ---	± ---	CHECKED BY	DATE	PUR XM SE UNSH			
			2 PLACES	± ---	± ---	JMARZALEK	2012/02/16				
			1 PLACE	± ---	± ---	APPROVED BY	DATE				
			ANGULAR ± ---°		MDYSZEWSKA	2012/02/16	molex MOLEX INCORPORATED				
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
					MATRIX DRAWING		SD-120065-001		1 OF 1		
A1	REV	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION									