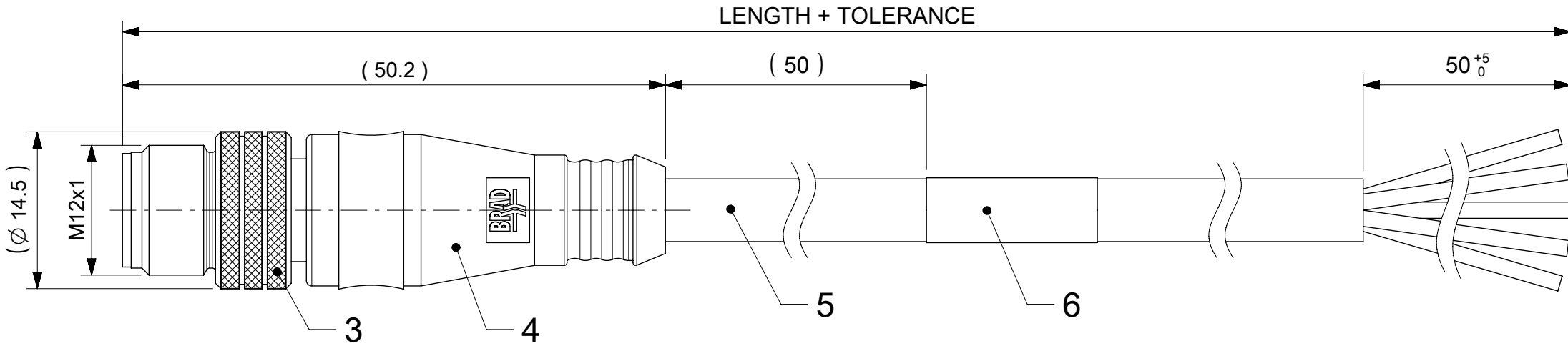
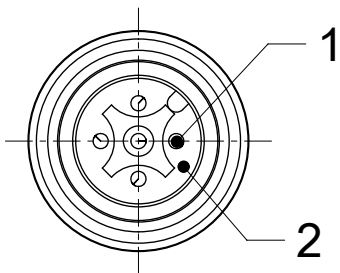
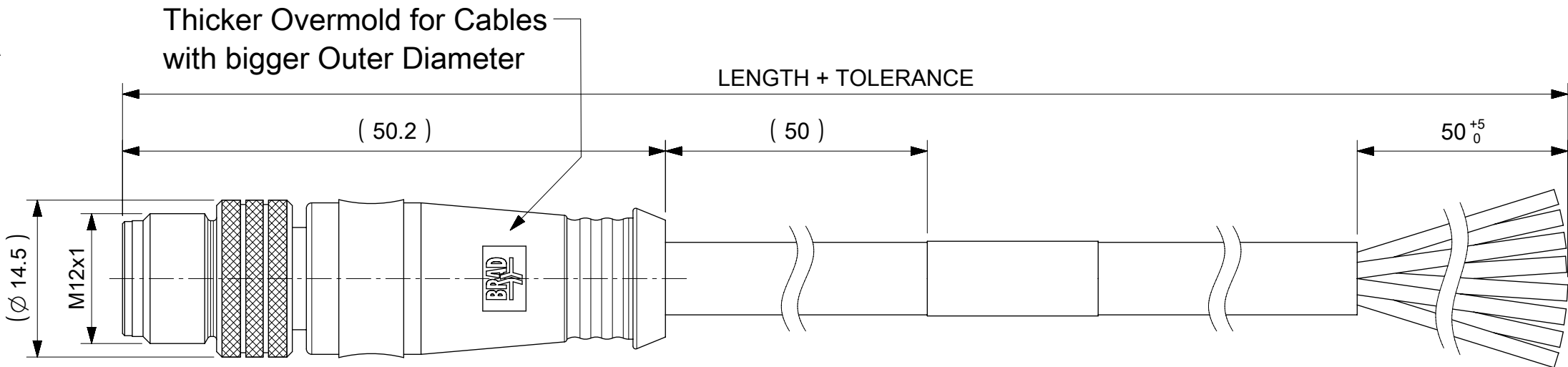
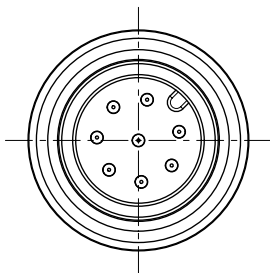


MALE PLUG M12 STRAIGHT



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

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: OBSOLETE PART NUMBERS AS PER PCN#506884

EC NO: 662770
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

2021/02/23
2021/06/02
2021/06/02

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

A8

MATERIAL NUMBER

SEE TABLE

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 4

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

OPTIONS

8 0 X 0 0 6 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:
006=Plug Male Straight

Cable type: See Table

Units:
M=Meter

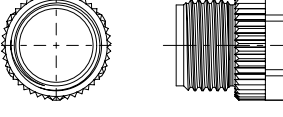
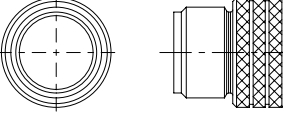
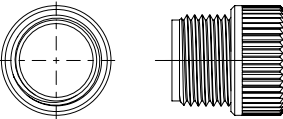
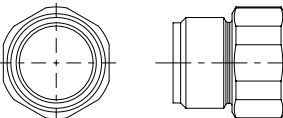
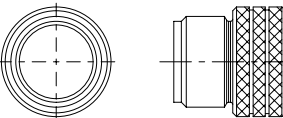
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

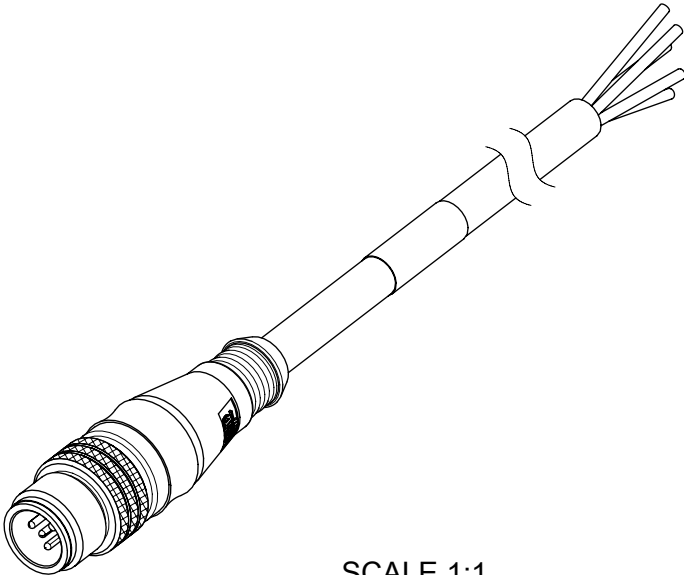


CABLE INFORMATION (for more information see Cable Data Sheet).

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	0.25mm ²	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	0.34mm ²	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	0.25mm ²	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	0.34mm ²	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	0.25mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
A09	3	0.34mm ²	PVC 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

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: OBSOLETE PART NUMBERS AS PER PCN#506884					
mm		1:1		mo lex CSE M12 XP AC MA STR XM SE UNSH PRODUCT CUSTOMER DRAWING DOCUMENT NUMBER1200659185DOC TYPEPSDDOC PART000REVISIONA8 MATERIAL NUMBERSEE TABLECUSTOMERGENERAL MARKETSHEET NUMBER2 OF 4					
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		SERIES	
						A3-SIZE		120065	
				EC NO: 662770		DRWN: SUGEEB		2021/02/23	
				CHK'D: GGA		APPR: GGA		2021/06/02	
				INITIAL REVISION:		DRWN: JMARSZALEK		2016/01/12	
				APPR: RSILLER		2016/04/08			

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/02	05:45:28
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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	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	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	1200652157	805006P03M040	4m	106	1200658727	804006H09M010	1m	107	1200658728	804006H09M015	1.5m	108	1200658729	804006H09M020	2m	109	1200658730	804006H09M030	3m	110	1200658731	804006H09M040	4m							
	2	1200060047	804006P03M050	5m	37	1200062631	805006P03M120	12m	72	1200652158	805006P03M100	10m	107	1200658728	804006H09M015	1.5m	108	1200658729	804006H09M020	2m	109	1200658730	804006H09M030	3m	110	1200658731	804006H09M040	4m	111	1200658732	804006H09M050	5m							
	3	1200060240	803006E03M020	2m	38	1200062799	805006E03M010	1m	73	1200655011	805006P03M005	0.5m	108	1200658729	804006H09M020	2m	109	1200658730	804006H09M030	3m	110	1200658731	804006H09M040	4m	111	1200658732	804006H09M050	5m	112	1200658733	804006H09M100	10m							
	4	1200060241	803006E03M050	5m	39	1200062830	804006E03M0205	2m	74	1200655051	805006E03M006	0.6m	109	1200658730	804006H09M030	3m	110	1200658731	804006H09M040	4m	111	1200658732	804006H09M050	5m	112	1200658733	804006H09M100	10m	113	1200658741	805006H09M010	1m							
	5	1200060242	803006E03M100	10m	40	1200062877	804006E03M0505	5m	75	1200658016	808006P02M060	6m	110	1200658731	804006H09M040	4m	111	1200658732	804006H09M050	5m	112	1200658733	804006H09M100	10m	113	1200658741	805006H09M010	1m	114	1200658742	805006H09M015	1.5m							
	6	1200060256	803006P03M002	0.2m	41	1200062920	804006E03M1005	10m	76	1200658055	803006P03M003	0.3m	111	1200658732	804006H09M050	5m	112	1200658733	804006H09M100	10m	113	1200658741	805006H09M010	1m	114	1200658742	805006H09M015	1.5m	115	1200658743	805006H09M020	2m							
	7	1200060257	803006P03M020	2m	42	1200063018	803006P03M0303	3m	77	1200658092	805006P03M010	1m	112	1200658733	804006H09M100	10m	113	1200658741	805006H09M010	1m	114	1200658742	805006H09M015	1.5m	115	1200658743	805006H09M020	2m	116	1200658744	805006H09M030	3m							
	8	1200060260	803006P03M030	3m	43	1200063077	804006E02M005	0.5m	78	1200658109	808006P02M003	0.3m	113	1200658741	805006H09M010	1m	114	1200658742	805006H09M015	1.5m	115	1200658743	805006H09M020	2m	116	1200658744	805006H09M030	3m	117	1200658745	805006H09M040	4m							
	9	1200060261	803006P03M050	5m	44	1200063470	804006E03M010H	1m	79	1200658110	808006P02M150	15m	114	1200658742	805006H09M015	1.5m	115	1200658743	805006H09M020	2m	116	1200658744	805006H09M030	3m	117	1200658745	805006H09M040	4m	118	1200658746	805006H09M050	5m							
E	10	1200060558	804006E03M006	0.6m	45	1200063472	804006P03M200	20m	80	1200658181	808006P02M010	1m	115	1200658743	805006H09M020	2m	116	1200658744	805006H09M030	3m	117	1200658745	805006H09M040	4m	118	1200658746	805006H09M050	5m	119	1200658747	805006H09M100	10m							
	11	1200060559	804006E03M010	1m	46	1200063731	805006P03M0065	0.6m	81	1200658209	805006E03M0061	✱ 0.6m	116	1200658744	805006H09M030	3m	117	1200658745	805006H09M040	4m	118	1200658746	805006H09M050	5m	119	1200658747	805006H09M100	10m	120	1200658784	804006E03M0101H	1m							
	12	1200060560	804006E03M020	2m	47	1200063732	804006E03M0501	5m	82	1200658247	803006H09M100	10m	117	1200658745	805006H09M040	4m	118	1200658746	805006H09M050	5m	119	1200658747	805006H09M100	10m	120	1200658784	804006E03M0101H	1m	121	1200658785	804006E03M1001H	10m							
	13	1200060561	804006E03M030	3m	48	1200063733	804006E03M1001	✱ 10m	83	1200658248	803006H09M050	5m	118	1200658746	805006H09M050	5m	119	1200658747	805006H09M100	10m	120	1200658784	804006E03M0101H	1m	121	1200658785	804006E03M1001H	10m	122	1200658876	804006E03M150	15m							
	14	1200060562	804006E03M050	5m	49	1200063856	804006E03M1501	✱ 15m	84	1200658463	804006P03M150	15m	119	1200658747	805006H09M100	10m	120	1200658784	804006E03M0101H	1m	121	1200658785	804006E03M1001H	10m	122	1200658876	804006E03M150	15m	123	1200658881	803006E03M050G	5m							
	15	1200060563	804006E03M100	10m	50	1200063941	804006P03M0401	4m	85	1200658500	805006E03M1001	10m	120	1200658784	804006E03M0101H	1m	121	1200658785	804006E03M1001H	10m	122	1200658876	804006E03M150	15m	123	1200658881	803006E03M050G	5m	124	1200658888	804006E03M020H	2m							
	16	1200060570	804006P03M020	2m	51	1200063953	805006E03M035	3.5m	86	1200658518	804006E03M0201H	2m	121	1200658785	804006E03M1001H	10m	122	1200658876	804006E03M150	15m	123	1200658881	803006E03M050G	5m	124	1200658888	804006E03M020H	2m	125	1200658890	804006H09M003	0.3m							
	17	1200060571	804006P03M030	3m	52	1200063969	804006E03M2001	✱✱ 20m	87	1200658519	804006E03M050																												

PART LIST

No.	Part No.	Engineering No.	Cable Length
141	1200659154	804006P03M100Y	10m
142	1200659185	805006E03M080	8m
143	1200659186	804006E03M060	6m
144	1200659190	804006P03M250	25m
145	1200659191	804006P03M300	30m
146	1200659192	804006P03M350	35m
147	1200659193	804006P03M400	40m
148	1200659194	804006E03M250	25m
149	1200659195	804006E03M300	30m
150	1200659196	804006E03M350	35m
151	1200659197	804006E03M400	40m
152	1200659198	804006E03M450	45m
153	1200659224	805006P03M200	20m
154	1200659225	805006P03M300	30m
155	1200659254	804006E03M500	50m
156	1200659281	805006P03M150	15m
157	1200659285	805006E03M150	15m
158	1200659316	805006P03M005H	0.5m
159	1200659317	805006P03M007H	0.7m
160	1200659318	805006P03M010H	1m
161	1200659319	805006P03M020H	2m
162	1200659320	805006P03M050H	5m
163	1200659321	805006P03M100H	10m
164	1200659322	805006P03M150H	15m
165	1200659323	805006P03M200H	20m
166	1200659324	805006P03M300H	30m
167	1200659325	805006P03M350H	35m
168	1200659367	805006E03M015	1.5m
169	1200659454	805006E03M045	4.5m
170	1200659455	805006E03M075	7.5m
171	1200659513	805006E03M030H	3m
172	1200659514	805006E03M045H	4.5m
173	1200659515	805006E03M075H	7.5m
174	1200659550	804006E03M120H	12m
175	1200659551	805006E03M010H	1m

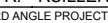
No.	Part No.	Engineering No.	Cable Length
176	1200659557	804006P03M003	0.3m
177	1200659612	804006P03M080	8m
178	1200659692	803006E02M020	2m
179	1200659983	804006E02M075	7.5m
180	1200659991	804006E02M0705	7m
181	1200656021	804006H09M050H	5m
182	1200659539	808006E02M100	** 10m
183	1200656293	803006E03M080	8m
184	1200656294	803006E03M120	12m
185	1200656295	804006E03M080	8m
186	1200656297	808006H08M005	0.5m
187	1200650843	803006A09M0208	* 2m
188			
189			
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No.	Part No.	Engineering No.	Cable Length
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No.	Part No.	Engineering No.	Cable Length
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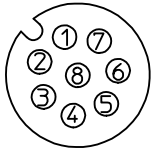
NOTES:

- * - Part No. with Yellow PVC overmolding
** - Part No. with Black PVC overmolding

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: OBSOLETE PART NUMBERS AS PER PCN#506884				molex							
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 662770 DRWN: SUGEEB 2021/02/23 CHK'D: GGA 2021/06/02 APPR: GGA 2021/06/02											
ANGULAR TOL ± 1.0°															
4 PLACES		±													
3 PLACES		±													
2 PLACES		± 0.05													
1 PLACE		± 0.3		PRODUCT CUSTOMER DRAWING											
0 PLACES		± 0.5													
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				INITIAL REVISION:				DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
				DRWN: JMARSZALEK 2016/01/12				1200659185		PSD		000		A8	
				APPR: RSILLER 2016/04/08											
THIRD ANGLE PROJECTION				DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
				A3-SIZE		120065		SEE TABLE		GENERAL MARKET		4 OF 4			

DOCUMENT STATUS	P1	RELEASE DATE	2021/06/02	05:45:28
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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

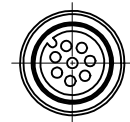
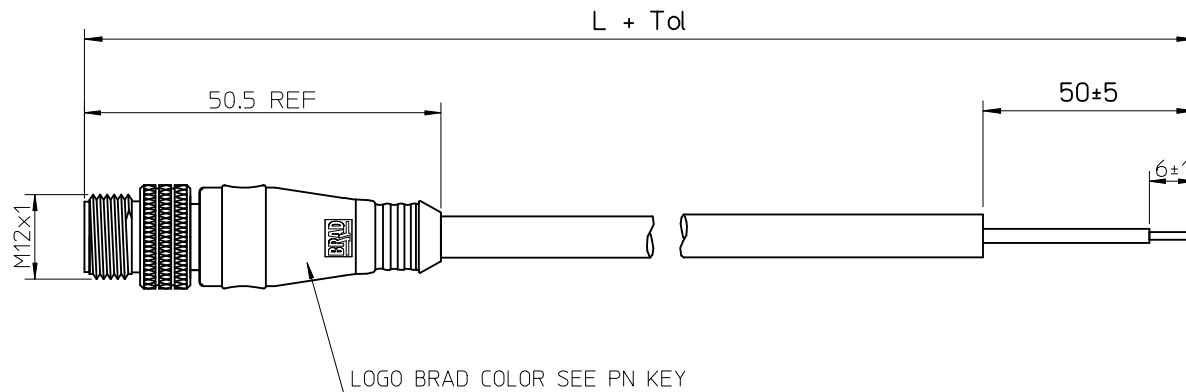
X

OVERMOULD COLOR

Blank=BLACK (Standard)

A=GREY

Y=YELLOW

Coupling Nut Material
Blank-Standard
S-Stainless Steel
5-BainnVIEW FROM
FRONT SIDE

DRAWING UPDATE EC NO: IPG2013-0156 DRWN:HWALCZAK 2012/07/03 CHKD: APPR:MIWASIECZKO 2012/10/11	REV
A1	

QUALITY SYMBOLS	DESCRIPTION
▽=0	
▽=0	

GENERAL TOLERANCES (UNLESS SPECIFIED)	
4 PLACES	± ---
3 PLACES	± ---
2 PLACES	± ---
1 PLACE	± ---
ANGULAR ± ---°	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS	

DIMENSION STYLE MM ONLY	
DRAWN BY	DATE
HWALCZAK	2012/02/10
CHECKED BY	DATE
JMARSZALEK	2012/02/16
APPROVED BY	DATE
MDYSZEWSKA	2012/02/16
MATERIAL NO.	
MATRIX DRAWING	
SIZE	
A3	

SCALE ---	DESIGN UNITS METRIC	FIRST ANGLE PROJECTION
TITLE		
CSE M12 8P AC MA STR PUR XM SE UNSH		
MOLEX INCORPORATED		
DOCUMENT NO.		SHEET NO.
SD-120065-001		1 OF 1
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION		

10

9

8

7

6

5

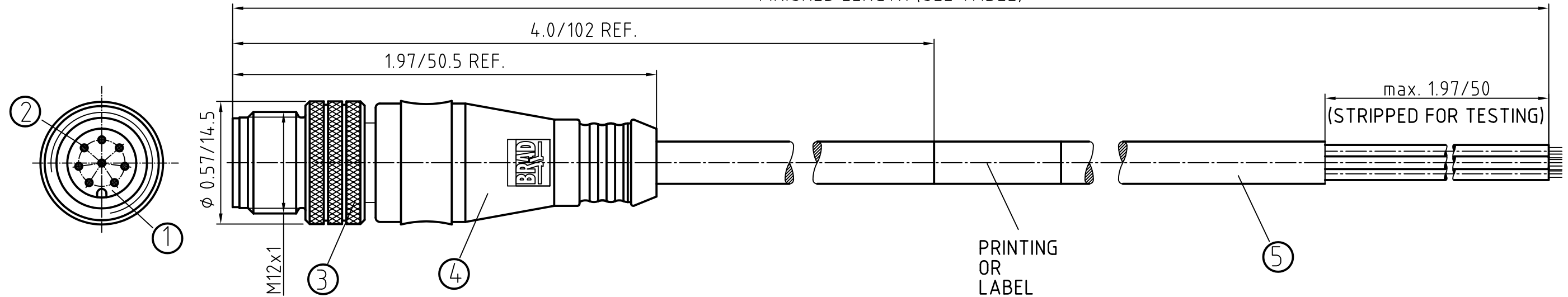
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3

2

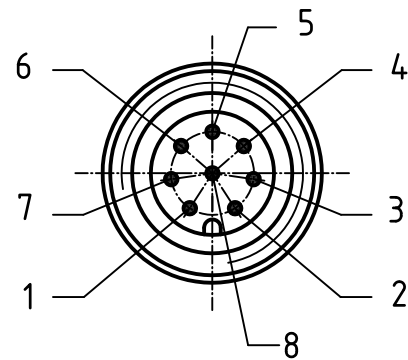
1

FINISHED LENGTH (SEE TABLE)



MALE FACE VIEW

8-POLE



1 WHITE
2 BROWN
3 GREEN
4 YELLOW
5 GREY
6 PINK
7 BLUE
8 RED

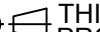
WIRING DIAGRAM

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
8	1200650964	808006P02M020	6.56' +3.50" -0 [2.0M +88.9 -0]

CONNECTOR SPECIFICATION:

VOLTAGE RATING	30 VAC/36 VDC
AMPERAGE RATING	2 AMPS
PROTECTION CLASS	IP68
OPERATING TEMPERATURE	-30°C TO 80°C
UL CERTIFICATIONS	NOT APPLICABLE
CSA CERTIFICATIONS	NOT APPLICABLE

ITEM	COMPONENT	MATERIAL	FINISH
1	INSERT	POLYURETHANE (PUR)	BLACK
2	CONTACT MATERIAL CONTACT PLATING	BRASS GOLD	CuZn Ni/Au
3	COUPLING NUT	BRASS	NICKEL PLATED
4	OVERMOLD	POLYURETHANE (PUR)	BLACK
5	CABLE- 0.25 ² /24 AWG (COPPER STRANDING) 8 CONDUCT. 300V	JACKET: PUR/PVC INSUL.: POLYPROP	JACKET: BLACK

DESCRIPTION EC NO: WEU2011-0033 DRWN: LSTEMMLE CHKD: AP APPR: REISSNER 2010/11/05		DESCRIPTION	QUALITY SYMBOLS ▽ = 0 ▽C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
					mm	INCH	DRAWN BY DATE		MICRO-CHANGE CORDSET 8-POL MALE STR SE 24/8 BLACK PUR/PVC CABLE			
				4 PLACES	±---	±---	LS	2010/01/13				
				3 PLACES	±---	±---	CHECKED BY	DATE				
				2 PLACES	±---	±.01	RE	2010/07/21				
				1 PLACE	±0.3	±---	APPROVED BY	DATE	molex MOLEX INCORPORATED			
				ANGULAR ± --- °			REISSNER	2010/11/05				
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.	
							SEE TABLE		SD-120065-032		1 OF 1	
2		REV					SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				