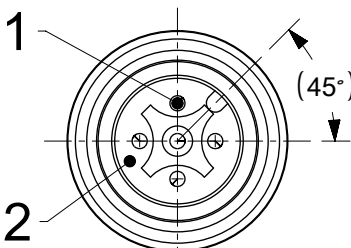


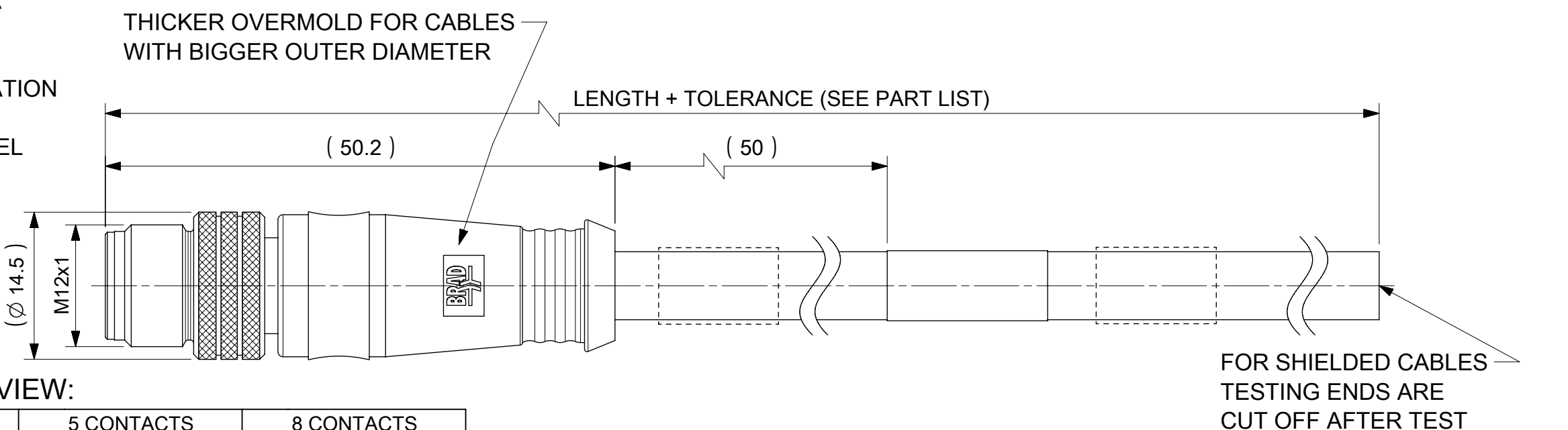
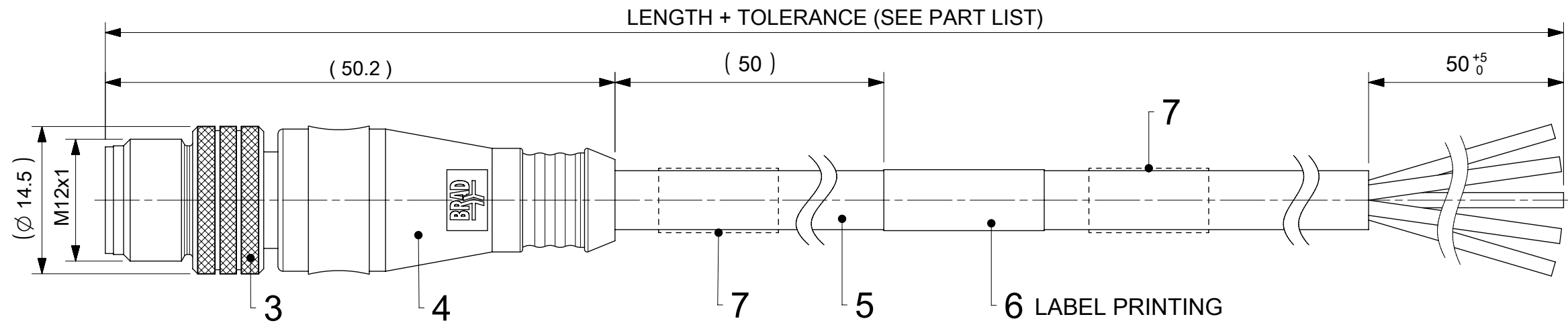
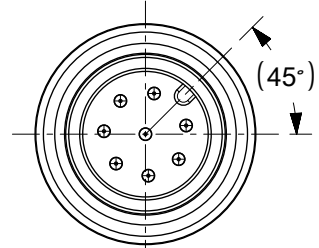
MALE PLUG M12 STRAIGHT



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 : SEE CABLE INFORMATION
ON SHEET 2
LABEL PRINTING ACC. STANDARD LABEL
INSTRUCTION (SEE SHEET 3)



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

$\nabla A = 0$

$\nabla E = 0$

$\nabla F = 0$

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

2:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL

$\pm 1.0^\circ$

4 PLACES

$\pm$

3 PLACES

$\pm$

2 PLACES

± 0.05

1 PLACE

± 0.3

0 PLACES

± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC: PN AND CABLE TAKEN FROM DRAWING 1200650971, LAYOUT REVISED

EC NO: 822575

DRWN: RSCHIEBER

CHK'D: RSILLER

APPR: RSILLER

2025/04/08

2025/05/20

2025/05/20

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/12

2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

molex

CSE M12 XP AC MA STR XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

000

REVISION

A13

SEE PART LIST

GENERAL MARKET

1 OF 5

PART LIST

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE E52		
1200060243	803006E52M050A	5000
4P CABLE E52		
1200651788	804006E52M005A	500
1200651790	804006E52M050A	5000
1200061663	804006E52M100A	10000
1200061664	804006E52M200A	20000
8P CABLE E52		
1200657336	808006E52M005	500
3P CABLE I03		
1200060252	803006I03M020	2000
1200060253	803006I03M030	3000
1200658595	803006I03M040	4000
1200060254	803006I03M050	5000
4P CABLE I03		
1200658325	804006I03M010	1000
1200060565	804006I03M020	2000
1200658601	804006I03M040	4000
1200060567	804006I03M050	5000
1200659122	804006I03M050Y	5000
1200060568	804006I03M100	10000
5P CABLE I03		
1200064444	805006I03C150	150
1200060674	805006I03M005	500
1200060675	805006I03M020	2000
4P CABLE I20		
1200061023	804006I20M003	300
5P CABLE I26		
1200061781	805006I26M050	5000
4P CABLE K03		
1200652024	804006K03M006	600
1200651357	804006K03M010	1000
1200651359	804006K03M020	2000
1200652025	804006K03M036	3600
1200651361	804006K03M050	5000
1200064547	804006K03M100	10000
5P CABLE K03		
1200651374	805006K03M020	2000
1200652151	805006K03M050	5000

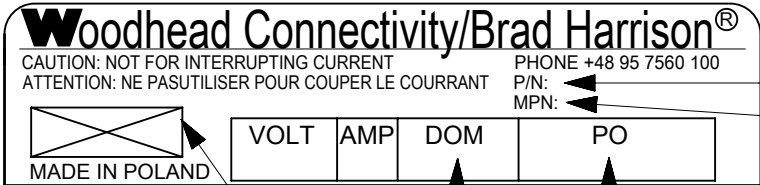
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4P CABLE P04		
1200658809	804006P04M003	300
3P CABLE P12		
1200063355	803006P12M0023	200
5P CABLE P12		
1200062618	805006P12M0035	300
1200658094	805006P12M006	600
1200062540	805006P12M010	1000
1200062541	805006P12M015	1500
1200062441	805006P12M020	2000
1200062770	805006P12M030	3000
1200063371	805006P12M050	5000
4P CABLE P20		
1200658497	804006P20M150	15000
5P CABLE P20		
1200063282	805006P20M010	1000
3P CABLE P82		
1200064014	803006P82M0067	600
1200064375	803006P82M0107	1000
8P CABLE S19		
1200650971	808006S19M010	1000
1200699506	808006S19M020	2000
1200699507	808006S19M030	3000
1200699508	808006S19M050	5000
1200699509	808006S19M100	10000
3P CABLE S20		
1200061551	803006S20M050	5000
1200062606	803006S20M100	10000
4P CABLE S20		
1200060578	804006S20M010	1000
1200659364	804006S20M010H	1000
1200060579	804006S20M020	2000
1200658961	804006S20M0201	2000
1200658201	804006S20M050	5000
1200658965	804006S20M0501	5000
1200060581	804006S20M100	10000
1200658962	804006S20M1001	10000
1200659347	804006S20M350	35000

MOLEX P/N	ENGINEERING No.	L [mm]
5P CABLE S20		
1200658973	805006S20M050	5000
5P CABLE S26		
1200060684	805006S26M020	2000
1200658170	805006S26M050	5000
1200659174	805006S26M050H	5000
3P CABLE A09		
1200650200	803006A09M020	2000
1200650843	803006A09M0208	2000
1200650205	803006A09M0508	5000
1200650207	803006A09M100	10000
1200650844	803006A09M1008	10000
4P CABLE A09		
1200650411	804006A09M010	1000
1200650913	804006A09M0208	2000
1200650914	804006A09M0308	3000
1200072456	804006A09M0401	4000
1200650419	804006A09M050	5000
1200650915	804006A09M0508	5000
1200650917	804006A09M1008	10000
1200656063	804006A09M1508	15000
1200659605	804006A09M2008	20000
3P CABLE E03		
1200064353	803006E03M003	300
1200658526	803006E03M005	500
1200658565	803006E03M010	1000
1200659104	803006E03M010Y	1000
1200060240	803006E03M020	2000
1200062017	803006E03M030	3000
1200658566	803006E03M040	4000
1200060241	803006E03M050	5000
1200062351	803006E03M0505	5000
1200658881	803006E03M050G	5000
1200656293	803006E03M080	8000
1200060242	803006E03M100	10000
1200062352	803006E03M1005	10000
1200656294	803006E03M120	12000
1200061611	803006E03M150	15000

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE E03		
1200064251	804006E03M003	300
1200064252	804006E03M005	500
1200658265	804006E03C550	550
1200060558	804006E03M006	600
1200060559	804006E03M010	1000
1200658784	804006E03M0101H	1000
1200063470	804006E03M010H	1000
1200657159	804006E03M015	1500
1200060560	804006E03M020	2000
1200062122	804006E03M0201	2000
1200658518	804006E03M0201H	2000
1200062830	804006E03M0205	2000
1200658888	804006E03M020H	2000
1200659080	804006E03M020Y	2000
1200060561	804006E03M030	3000
1200658571	804006E03M040	4000
1200060562	804006E03M050	5000
1200063732	804006E03M0501	5000
1200658519	804006E03M0501H	5000
1200062877	804006E03M0505	5000
1200658893	804006E03M050H	5000
1200659186	804006E03M060	6000
1200658542	804006E03M070	7000
1200656295	804006E03M080	8000
1200060563	804006E03M100	10000
1200063733	804006E03M1001	10000
1200658785	804006E03M1001H	10000
1200062920	804006E03M1005	10000
1200060046	804006E03M120	12000
1200659550	804006E03M120H	12000
1200658876	804006E03M150	15000
1200063856	804006E03M1501	15000
1200062426	804006E03M200	20000
1200063969	804006E03M2001	20000
1200659194	804006E03M250	25000
1200064231	804006E03M2501	25000
1200659195	804006E03M300	30000
1200659196	804006E03M350	35000

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

LABEL PRINTING



ENGINEERING NO.
MOLEX PN

PO NO.
PRODUCT. DATE

CERTIFICATION SYMBOLS

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
= 0	mm	1:1
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
= 0	ANGULAR TOL ± 1.0 °	
DIVISIONAL SYMBOLS	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
		MATERIAL NUMBER
		CUSTOMER
		SHEET NUMBER

CURRENT REV DESC: PN AND CABLE TAKEN FROM DRAWING 1200650971, LAYOUT REVISED

EC NO: 822575
DRWN: RSCHIEBER 2025/04/08
CHK'D: RSILLER 2025/05/20
APPR: RSILLER 2025/05/20

INITIAL REVISION:
DRWN: JMARSZALEK 2016/01/12
APPR: RSILLER 2016/04/08

DOCUMENT NUMBER
1200659185

DOC TYPE
PSD

DOC PART
000

REVISION
A13

SEE PART LIST

GENERAL MARKET

3 OF 5

PART LIST

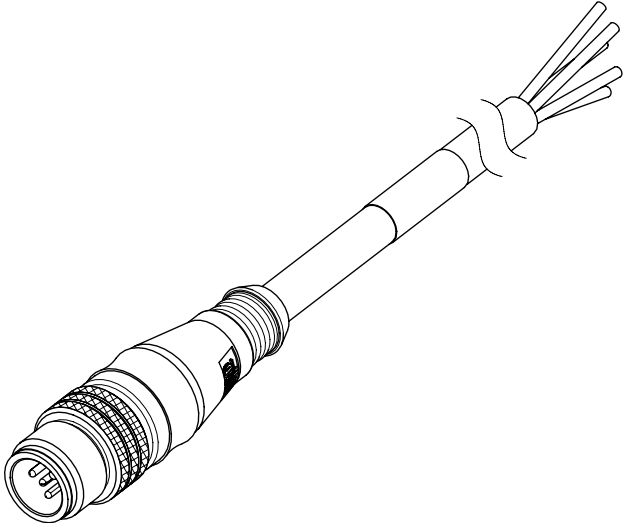
MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE E03		
1200659197	804006E03M400	40000
1200659198	804006E03M450	45000
1200659254	804006E03M500	50000
5P CABLE E03		
1200062596	805006E03M003	300
1200657191	805006E03M005	500
1200655051	805006E03M006	600
1200658209	805006E03M0061	600
1200062799	805006E03M010	1000
1200659551	805006E03M010H	1000
1200659367	805006E03M015	1500
1200060667	805006E03M020	2000
1200060668	805006E03M030	3000
1200659513	805006E03M030H	3000
1200063953	805006E03M035	3500
1200659454	805006E03M045	4500
1200659514	805006E03M045H	4500
1200061345	805006E03M050	5000
1200659455	805006E03M075	7500
1200659515	805006E03M075H	7500
1200659185	805006E03M080	8000
1200062209	805006E03M100	10000
1200658500	805006E03M1001	10000
1200659285	805006E03M150	15000
1200658897	805006E03M200	20000
1200659145	805006E03M300	30000
3P CABLE E02		
1200659692	803006E02M020	2000
1200659111	803006E02M050	5000
4P CABLE E02		
1200063077	804006E02M005	500
1200659109	804006E02M020	2000
1200659034	804006E02M050	5000
1200659036	804006E02M070	7000
1200659991	804006E02M0705	7000
1200659983	804006E02M075	7500
1200659037	804006E02M100	10000

MOLEX P/N	ENGINEERING No.	L [mm]
8P CABLE E02		
1200658223	808006E02M003	300
1200658552	808006E02M0031	300
1200658226	808006E02M0038	300
1200658815	808006E02M003G	300
1200659041	808006E02M005	500
1200658918	808006E02M005H	500
1200658859	808006E02M0061G	600
1200658576	808006E02M010	1000
1200658919	808006E02M010H	1000
1200658577	808006E02M020	2000
1200658578	808006E02M030	3000
1200658478	808006E02M040	4000
1200658546	808006E02M050	5000
1200659110	808006E02M0501	5000
1200658579	808006E02M100	10000
1200659539	808006E02M100	10000
1200659284	808006E02M150	15000
5P CABLE H08		
1200650977	805006H08M005	500
8P CABLE H08		
1200656297	808006H08M005	500
1200658658	808006H08M010	1000
1200658659	808006H08M015	1500
1200658660	808006H08M020	2000
1200658814	808006H08M025	2500
1200658661	808006H08M030	3000
1200658662	808006H08M040	4000
1200658663	808006H08M050	5000
1200658263	808006H08M100	10000
3P CABLE H09		
1200658892	803006H09M003	300
1200658653	803006H09M010	1000
1200658654	803006H09M015	1500
1200658655	803006H09M020	2000
1200658656	803006H09M030	3000
1200658657	803006H09M040	4000
1200658248	803006H09M050	5000
1200658247	803006H09M100	10000

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE H09		
1200658890	804006H09M003	300
1200658727	804006H09M010	1000
1200658728	804006H09M015	1500
1200658729	804006H09M020	2000
1200658730	804006H09M030	3000
1200658731	804006H09M040	4000
1200658732	804006H09M050	5000
1200656021	804006H09M050H	5000
1200658733	804006H09M100	10000
1200658895	804006H09M200	20000
5P CABLE H09		
1200656974	805006H09M003	300
1200659149	805006H09M005	500
1200658741	805006H09M010	1000
1200658742	805006H09M015	1500
1200658743	805006H09M020	2000
1200658744	805006H09M030	3000
1200658745	805006H09M040	4000
1200658746	805006H09M050	5000
1200658747	805006H09M100	10000
1200659141	805006H09M200	20000
1200657263	805006H09M250	25000
1200659142	805006H09M300	30000
3P CABLE K05		
1200652219	803006K05M010	1000
4P CABLE K05		
1200651129	804006K05M020	2000
1200651131	804006K05M050	5000
1200651133	804006K05M100	10000
1200652049	804006K05M150	15000
1200652506	804006K05M250	25000
8P CABLE P02		
1200658109	808006P02M003	300
1200062560	808006P02M005	500
1200658181	808006P02M010	1000
1200650964	808006P02M020	2000
1200651763	808006P02M030	3000
1200650967	808006P02M040	4000

MOLEX P/N	ENGINEERING No.	L [mm]
8P CABLE P02		
1200650968	808006P02M050	5000
1200658016	808006P02M060	6000
1200650969	808006P02M100	10000
1200658110	808006P02M150	15000
1200650970	808006P02M200	20000
3P CABLE P03		
1200060256	803006P03M002	200
1200658055	803006P03M003	300
1200064160	803006P03M005	500
1200064464	803006P03M005G	500
1200061853	803006P03M010	1000
1200060257	803006P03M020	2000
1200060260	803006P03M030	3000
1200063018	803006P03M0303	3000
1200658057	803006P03M035	3500
1200658612	803006P03M040	4000
1200060261	803006P03M050	5000
1200658613	803006P03M100	10000
4P CABLE P03		
1200657157	804006P03M002	200
1200659557	804006P03M003	300
1200657158	804006P03M005	500
1200061855	804006P03M006	600
1200064347	804006P03M007	700
1200061633	804006P03M010	1000
1200064261	804006P03M011	1100
1200659179	804006P03M015	1500
1200060570	804006P03M020	2000
1200064393	804006P03M020G	2000
1200060571	804006P03M030	3000
1200652141	804006P03M040	4000
1200063941	804006P03M0401	4000
1200060047	804006P03M050	5000
1200658076	804006P03M0505	5000
1200652142	804006P03M060	6000
1200064240	804006P03M070	7000
1200659178	804006P03M075	7500
1200659612	804006P03M080	8000

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



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

CURRENT REV DESC: PN AND CABLE TAKEN FROM DRAWING 1200650971, LAYOUT REVISED

EC NO: 822575

DRWN: RSCHIEBER 2025/04/08

CHK'D: RSILLER 2025/05/20

APPR: RSILLER 2025/05/20

INITIAL REVISION:

DRWN: JMARSZALEK 2016/01/12

APPR: RSILLER 2016/04/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

000

REVISION

A13

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

SEE PART LIST

GENERAL MARKET

4 OF 5

DOCUMENT STATUS

P1

RELEASE DATE

2025/05/20

07:26:55

FORMAT: master-bb-prod-A3
REVISION: 11
DATE: 2021/05/01

9

8

7

6

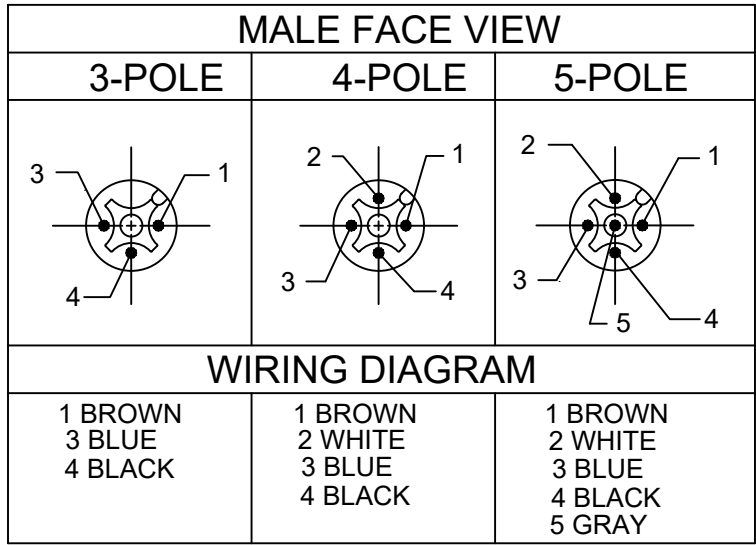
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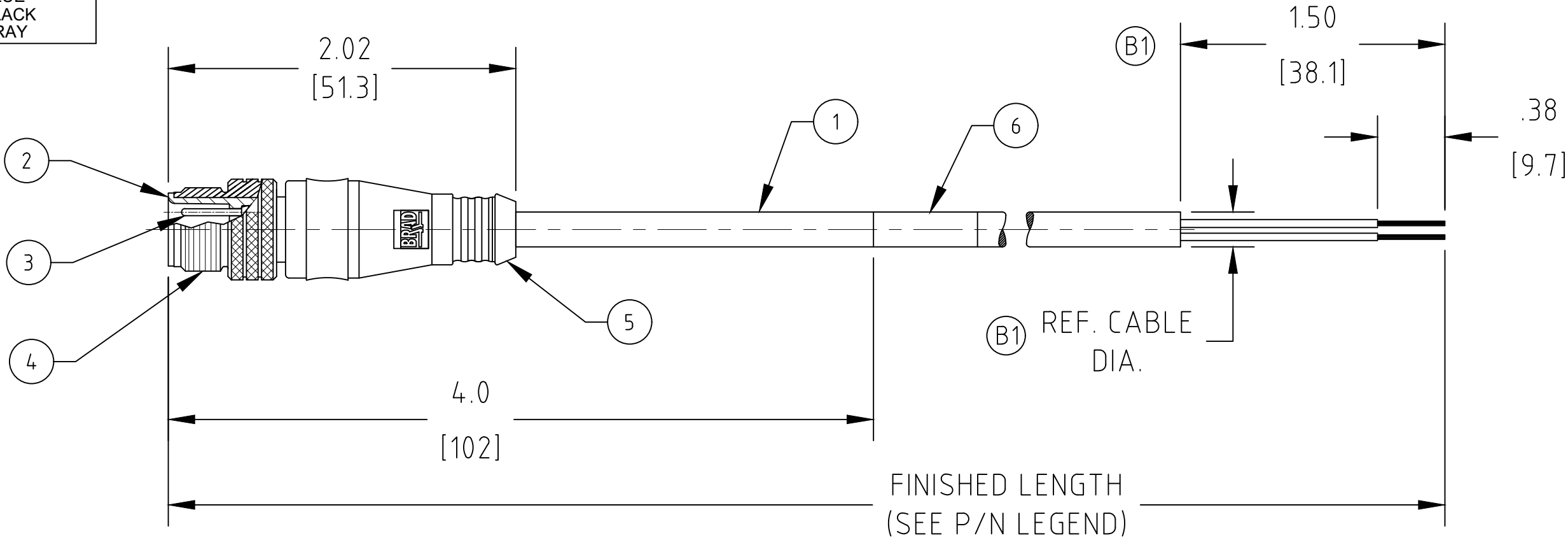
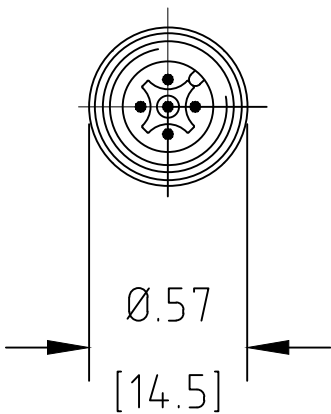
PART NUMBER	ENG. PART NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200650200	803006A09M020	6 FT 7 IN [2.0M]	3	.19
1200650418	804006A09M040	13 FT 1 IN [4.0M]	4	.20
1200650522	805006A09M010	3 FT 3 IN [1.0M]	5	.22
1200650533	805006A09M100	32 FT 10 IN [10.0M]	5	.22
1200659220	805006A09M300	98 FT 5 IN [30.0M]	5	.22

PART NO. LEGEND
803006A09M020

POLES
3,4,& 5

cable length
M005 = 0.5 Meters
M020= 2 Meters
M100= 10 Meters

CABLE LENGTH TOLERANCES
<.3M [1FT]: +19mm-0 [+.75in-0]
.3 - .9M [1 - 3FT]: +44.5mm-0 [+1.75in-0]
.9 - 1.8M [3 - 6FT]: +55.6mm-0 [+2.19in-0]
1.8 - 3.7M [6 - 12FT]: +88.9mm-0 [+3.50in-0]
3.7 - 7.3M [12 - 24FT]: +165.1mm-0 [+6.50in-0]
7.3-14.6M [24 - 48FT]: +317.5mm-0 [+12.50in-0]
14.6 - 30.5M [48-100FT]: +622.3mm-0 [+24.50in-0]
OVER 30M [100FT] +2% OF FINISHED LENGTH



- NOTES:
- 1. MATERIAL: AS NOTED
 - 2. FINISH: AS NOTED
 - 3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
 - 4. TEMP RATING: -25°C TO +105°C
 - 5. PROTECTION: IP67 (WHEN MATED)
 - 6. COUPLING THREAD: M12 X 1.0
 - 7. UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR 6837
 - 8. ALL DIMS ARE FOR REFERENCE UNLESS TOLERANCED OR NOTED OTHERWISE

6	WRAP LABEL	VINYL	BLACK/YELLOW
5	OVERMOLD	PUR	YELLOW
4	COUPLING NUT	BRASS	NICKEL PLATED
3	CONTACT PIN	COPPER ALLOY	GOLD PLATED
2	INSERT, MALE, 5P	PUR	BLACK
1	CABLE, 22AWG	PVC JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

FUNCTIONAL SYMBOLS $\nabla_A=0$ $\nabla_C=0$ $\nabla_P=0$ DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			molex MICRO-CHANGE ASSEMBLY 3-5 POLE MA STR 22/AWG YELLOW PVC CABLE		
	DIMENSION UNITS	SCALE	CURRENT REV DESC: CHANGE CABLE STRIP TO 1.50 IN PER MFG DOC., ADD CABLE DIA.			
	INCH/MM	1:1	EC NO: 698871 DRWN: RSTONE 2022/03/08 CHK'D: ALEON01 2022/03/14 APPR: BWOODMAN 2022/03/15			
	GENERAL TOLERANCES (UNLESS SPECIFIED)		INITIAL REVISION:	PRODUCT CUSTOMER DRAWING		
	4 PLACES	±----	±----	DRWN: LSTEMMLE 2010/01/13	DOCUMENT NUMBER	
	3 PLACES	±----	±----	APPR: NSTAUDIG 2010/01/25	SD-120065-028	
	2 PLACES	±----	±----		DOC TYPE	DOC PART
	1 PLACE	±----	±----		REVISION	
	0 PLACES	±----	±----			
	ANGULAR TOL ± ---- °		THIRD ANGLE PROJECTION	DRAWING	SERIES	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			B-SIZE	120065	
					MATERIAL NUMBER	
					CUSTOMER	
						SHEET NUMBER
						1 OF 1