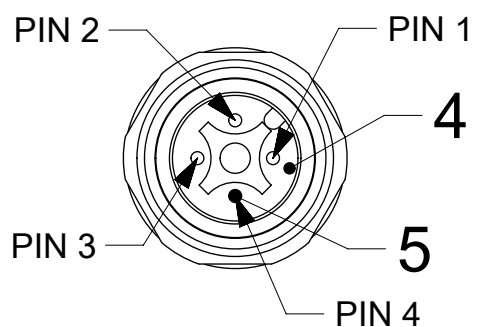
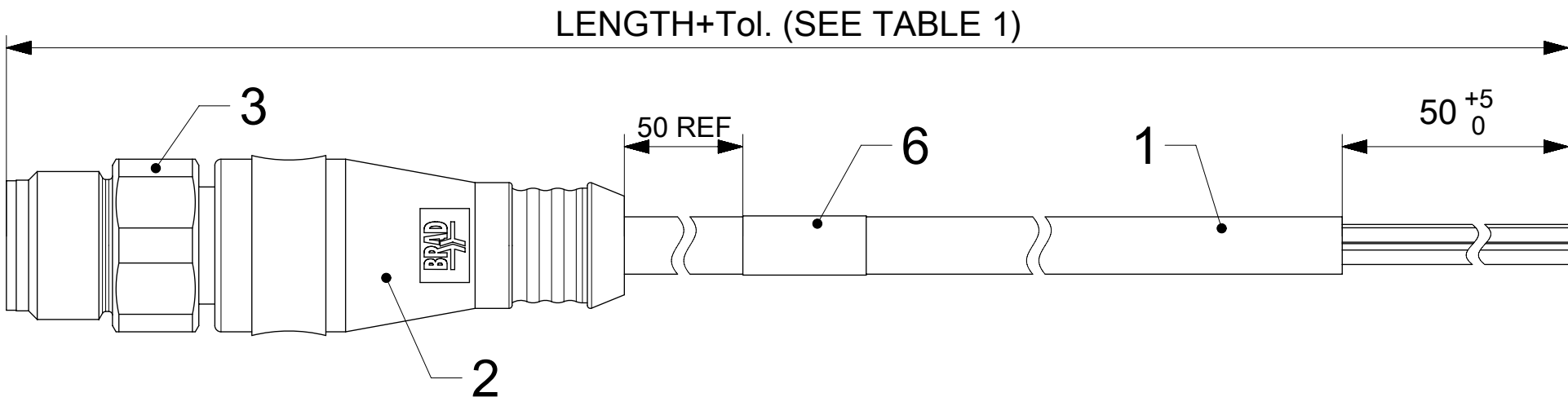


WIRING DIAGRAM

4	☐	BLACK
3	☐	BLUE
2	☐	WHITE
1	☐	BROWN



VIEW FROM THE FRONT SIDE



6	1	WRAP LABEL YELLOW	VINYL	-
5	4	CONTACT MALE	BRASS	GOLD OVER Ni-PLATED
4	1	INSERT MALE AC 4P	NYLON	PUR
3	1	COUPLING NUT M12 MALE	SS HEX	-
2	-	MOULDING MATERIAL YELLOW	PVC	-
1	-	CABLE 4X0.34MM YELLOW	PVC	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

TABLE 1

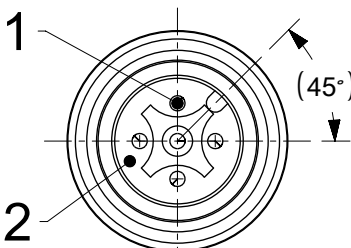
No	Part No	Engineering No	Cable Length
1	1200650913	804006A09M0208	2m
2	1200650914	804006A09M0308	3m
3	1200650915	804006A09M0508	5m
4	1200650917	804006A09M1008	10m
5	1200656063	804006A09M1508	15m
6	1200659605	804006A09M2008	20m

TABLE OF LENGTH TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCE (+)
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																			
FA = 0	EC NO: 117755 DRWN: AKONDRACIUK CHK'D: MIWASIECZKO APPR: MIWASIECZKO	2017/06/03 2017/06/06	GENERAL TOLERANCES (UNLESS SPECIFIED)	DIMENSION UNITS		SCALE		molex®													
F = 0				MM		2:1															
EP = 0				DRWN BY				DATE				MIC 4P M/MP XM 22/4 PVC									
F = 0				AKONDRACIUK				2017/06/03													
▽ = 0				4 PLACES		±		CHK'D BY				DATE									
▽ = 0				3 PLACES		±															
C = 0				2 PLACES		±		APPR BY				DATE									
C = 0				1 PLACE		±															
☒ = 0				0 PLACES		±		MIWASIECZKO				2017/06/06				PRODUCT CUSTOMER DRAWING					
■ = 0				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRAWING SIZE		THIRD ANGLE PROJECTION		SERIES	MATERIAL NUMBER		CUSTOMER						
C = 0	A	REV			A3				120065	SEE TABLE 1		GENERAL MARKET									
										DOCUMENT NUMBER		DOC TYPE	DOC PART	SHEET NUMBER							
										1200650913		PSD	000	1 OF 1							

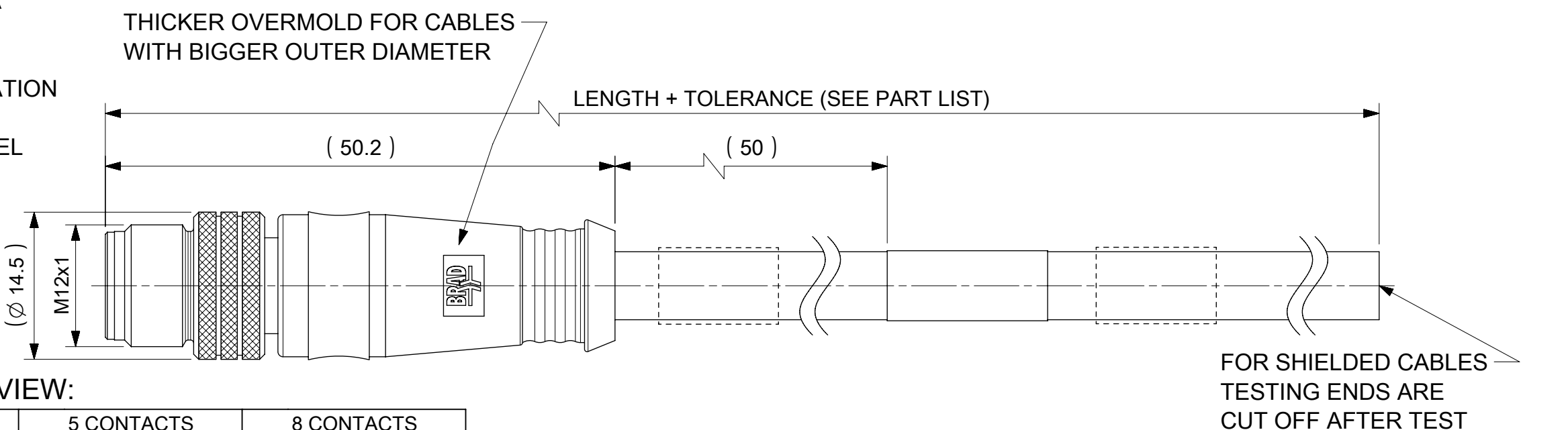
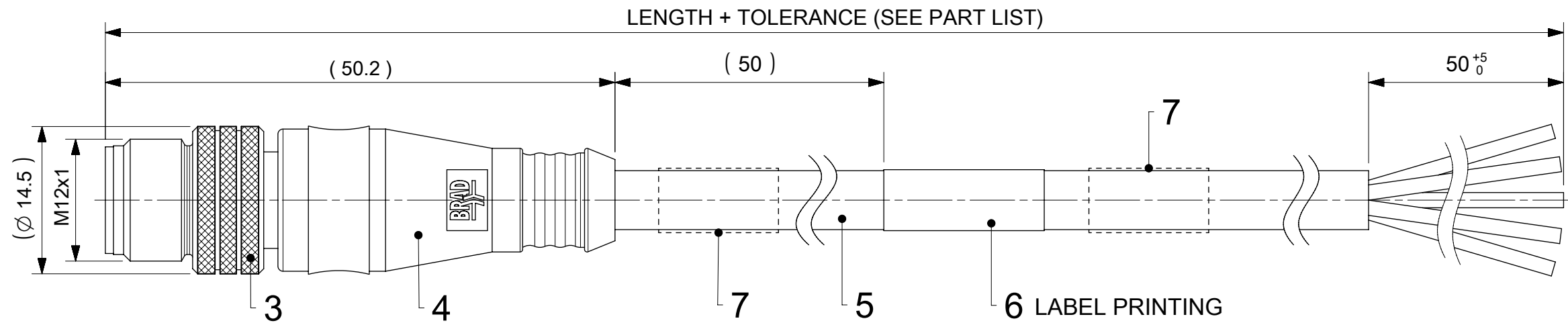
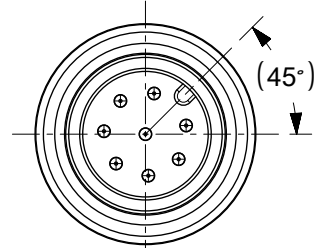
MALE PLUG M12 STRAIGHT



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

A3-SIZE

SERIES

120065

MATERIAL NUMBER

SEE PART LIST

CUSTOMER

GENERAL MARKET

SHEET NUMBER

1 OF 5

moLEX

CSE M12 XP AC MA STR XM SE

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER

1200659185

DOC TYPE

PSD

DOC PART

000

REVISION

A13

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

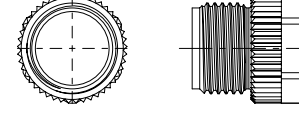
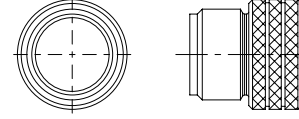
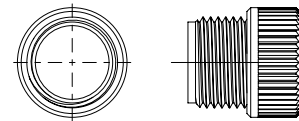
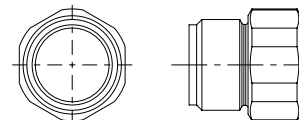
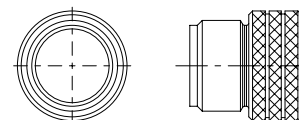
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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

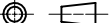
H= 2 pcs. of I/D Carrier PVC Transparent

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 / 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	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	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 / 4	0.34mm²	PVC YELLOW	-	-	-	-	-	-
K05	4	0.38mm²	TPE YELLOW	-	-	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC 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	-	-
I20	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	-	-	-	-
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	-	-
P20	4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3	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

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: PN AND CABLE TAKEN FROM DRAWING 1200650971, LAYOUT REVISED			molex			
	mm		1:1								
	F A = 0		GENERAL TOLERANCES (UNLESS SPECIFIED)		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			CSE M12 XP AC MA STR XM SE			
	F E = 0										
	F F = 0										
	ANGULAR TOL ± 1.0°		PRODUCT CUSTOMER DRAWING								
	4 PLACES ±										
	3 PLACES ±										
	2 PLACES ± 0.05										
1 PLACE ± 0.3											
DIVISIONAL SYMBOLS	0 PLACES ± 0.5					DOCUMENT NUMBER			DOC TYPE	DOC PART	REVISION
	0 PLACES ± 0.5					1200659185			PSD	000	A13
	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 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

MOLEX P/N	ENGINEERING No.	L [mm]
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

Woodhead Connectivity/Brad Harrison®
CAUTION: NOT FOR INTERRUPTING CURRENT
ATTENTION: NE PAS UTILISER POUR COUPER LE COURRANT

PHONE +48 95 7560 100
P/N:
MPN:

MADE IN POLAND

VOLT

AMP

DOM

PO

ENGINEERING NO.
MOLEX PN

PO NO.
PRODUCT. DATE

CERTIFICATION SYMBOLS

FUNCTIONAL SYMBOLS

mm

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

DIVISIONAL SYMBOLS

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION

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 A3-SIZE

SERIES 120065

DOCUMENT NUMBER 1200659185

DOC TYPE PSD

DOC PART 000

REVISION A13

MATERIAL NUMBER SEE PART LIST

CUSTOMER GENERAL MARKET

SHEET NUMBER 3 OF 5

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/20	07:26:55
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FORMAT: master-b-prod-A3
REVISION: 11
DATE: 2021/05/01

9

8

7

6

5

4

3

2

1

