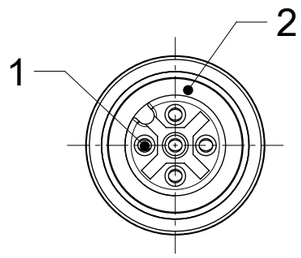
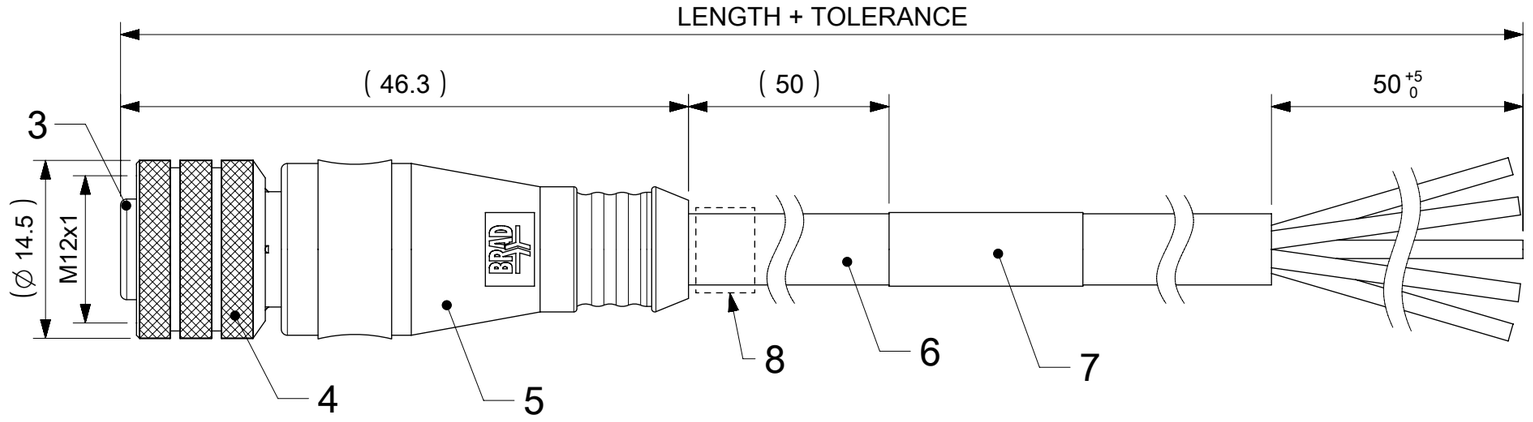
FEMALE PLUG M12 STRAIGHT





NOTES:

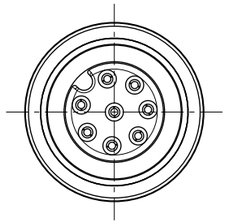
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V

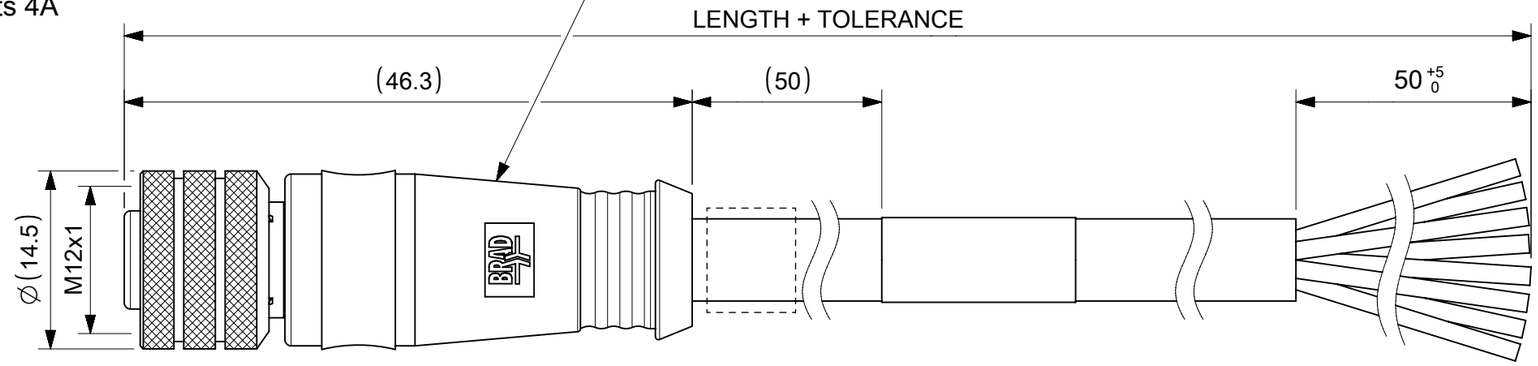
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67

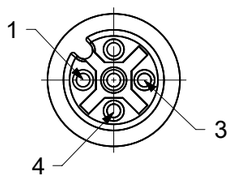
TEMPERATURE: -25°C / +85°C

Thicker Overmold for Cables
with bigger Outer Diameter

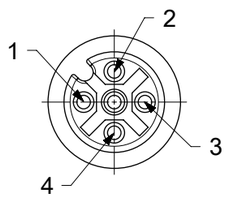




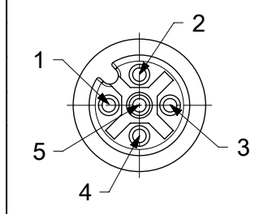
CONTACTS POSITION FRONT VIEW:



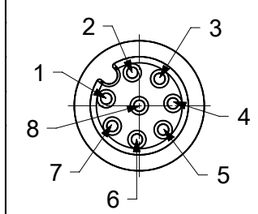
PIN	WIRE
1	BROWN
2	---
3	BLUE
4	BLACK
5	---



PIN	WIRE
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	---



PIN	WIRE
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GREY



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

CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
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

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FUNCTIONAL SYMBOLS: FA = 0, FC = 0, FF = 0

DIVISIONAL SYMBOLS

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: RETRACTED P/N 1200658191 AS PER PCN#516775.

EC NO: 823996
DRWN: ANIKES1 2025/05/30
CHK'D: GGA 2025/05/30
APPR: GGA 2025/05/30

INITIAL REVISION:
DRWN: JMARSZALEK 2016/01/11
APPR: RSILLER 2016/04/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200651978	PSD	000	A13

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 3-4	GENERAL MARKET	1 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/30 10:55:41

FORMAT: master-Sheet-A3
REVISION: J1
DATE: 2021/05/07

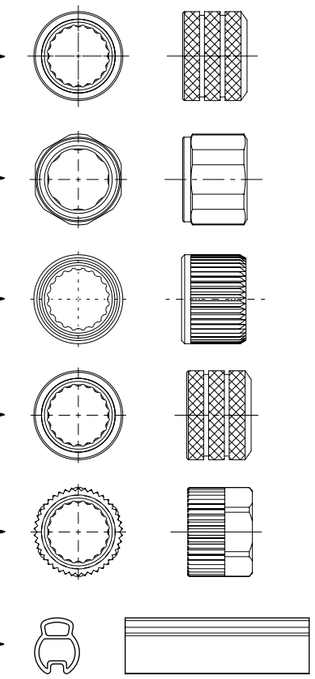
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

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

COUPLING NUTS

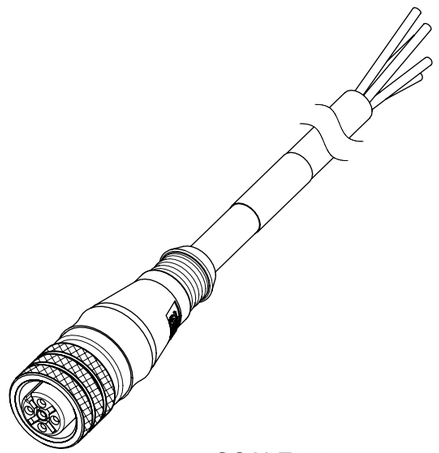


CABLE INFORMATION (for more information see Cable Data Sheet).

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.	-	-

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

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DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
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

CURRENT REV DESC: RETRACTED P/N 1200658191 AS PER PCN#516775.

EC NO: 823996
DRWN: ANIKES1 2025/05/30
CHK'D: GGA 2025/05/30
APPR: GGA 2025/05/30

INITIAL REVISION:
DRWN: JMARSZALEK 2016/01/11
APPR: RSILLER 2016/04/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200651978	PSD	000	A13

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 3-4	GENERAL MARKET	2 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/30 10:55:41

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

PART LIST

Part No.	Engineering No.	Cable Length
3P E03 CABLE		
1200060107	803000E03M003	0.3m
1200657197	803000E03M005	0.5m
1200060027	803000E03M006	0.6m
1200658562	803000E03M010	1m
1200657198	803000E03M015	1.5m
1200060001	803000E03M020	2m
1200658219	803000E03M0201	2m *
1200658887	803000E03M020H	2m
1200061958	803000E03M021	2.1m
1200060113	803000E03M030	3m
1200658563	803000E03M040	4m
1200060002	803000E03M050	5m
1200060116	803000E03M0505	5m
1200658889	803000E03M050H	5m
1200062071	803000E03M060	6m
1. 1200060003	803000E03M100	10m
1200658350	803000E03M1001	10m *
1200060117	803000E03M1005	10m
1200060119	803000E03M150	15m
1200060121	803000E03M200	20m
1200060124	803000E03M2505	25m
4P E03 CABLE		
1200658983	804000E03M002	0.2m
1200063224	804000E03M003	0.3m
1200060032	804000E03M005	0.5m
1200657131	804000E03M006	0.6m
1200657132	804000E03M008	0.8m
1200060426	804000E03M010	1m
1200657133	804000E03M015	1.5m
1200060014	804000E03M020	2m
1200060427	804000E03M0201	2m **
1200061337	804000E03M0205	2m
1200658894	804000E03M020G	2m
1200062866	804000E03M020H	2m

Part No.	Engineering No.	Cable Length
1200657134	804000E03M024	2.4m
1200060428	804000E03M030	3m
1200063443	804000E03M030H	3m
1200658570	804000E03M040	4m
1200060015	804000E03M050	5m
1200060429	804000E03M0501	5m *
1200060430	804000E03M0505	5m
1200658288	804000E03M050G	5m
1200062130	804000E03M050H	5m
1200658782	804000E03M060	6m
1200658896	804000E03M075	7.5m
1200657135	804000E03M070	7m
1200657136	804000E03M080	8m
1200657137	804000E03M090	9m
1200060016	804000E03M100	10m
1200063407	804000E03M1001	10m *
1200658882	804000E03M100H	10m
1200064422	804000E03M120	12m
1200060431	804000E03M150	15m
1200062264	804000E03M1505	15m
1200657138	804000E03M180	18m
1200060432	804000E03M200	20m
1200063647	804000E03M2001	20m
1200062992	804000E03M200H	20m
1200061528	804000E03M250	25m
1200061913	804000E03M300	30m
1200658228	804000E03M3001	30m *
1200657139	804000E03M350	35m
1200657140	804000E03M400	40m
1200657141	804000E03M450	45m
1200657142	804000E03M500	50m
1200657143	804000E03M550	55m
5P E03 CABLE		
1200659207	805000E03C230	0.23m
1200658502	805000E03M005	0.5m

Part No.	Engineering No.	Cable Length
1200658208	805000E03M0061	0.6m *
1200659279	805000E03M007	0.7m
1200063314	805000E03M010	1m
1200659368	805000E03M015	1.5m
1200060634	805000E03M020	2m
1200658503	805000E03M0201	2m
1200658165	805000E03M030	3m
1200658592	805000E03M040	4m
1200651978	805000E03M050	5m
1200658210	805000E03M0501	5m *
1200658331	805000E03M050H	5m
1200656303	805000E03M050Y	5m
1200657180	805000E03M070	7m
1200060638	805000E03M100	10m
1200655081	805000E03M150	15m
1200658081	805000E03M200	20m
1200063779	805000E03M300	30m
1200659280	805000E03M350	35m
1200659509	805000E03M600	60m
3P E02 CABLE		
1200656061	803000E02M010	1m
4P E02 CABLE		
1200659790	804000E02M020	2m
1200659786	804000E02M041	4.1m
1200659040	804000E02M050	5m
1200659038	804000E02M100	10m
8P E02 CABLE		
1200658511	808000E02M010	1m
1200658277	808000E02M020	2m
1200658590	808000E02M030	3m
1200658591	808000E02M040	4m
1200658224	808000E02M050	5m
1200658309	808000E02M0501	5m
1200658278	808000E02M100	10m
1200659538	808000E02M100	10m

Part No.	Engineering No.	Cable Length
1200658551	808000E02M1001	10m
1200658812	808000E02M150	15m
1200659256	808000E02M200	20m
1200659052	808000E02M2001	20m
1200658984	808000E02M2501	25m
1200659200	808000E02M250H	25m
1200659613	808000E02M300	30m
1200659053	808000E02M3001	30m
1200659187	808000E02M4001	40m
1200659387	808000E02M500	50m
8P H08 CABLE		
1200658642	808000H08M010	1m
1200658643	808000H08M015	1.5m
1200658644	808000H08M020	2m
1200658813	808000H08M025	2.5m
1200658645	808000H08M030	3m
1200658646	808000H08M040	4m
1200658244	808000H08M050	5m
1200658264	808000H08M100	10m
1200658930	808000H08M150	15m
1200658899	808000H08M250	25m
3P H09 CABLE		
1200659584	803000H09M003	0.3m
1200658637	803000H09M015	1.5m
1200658177	803000H09M100	10m
1200658636	803000H09M010	1m
1200658175	803000H09M020	2m
1200658638	803000H09M030	3m
1200658639	803000H09M040	4m
1200658176	803000H09M050	5m
4P H09 CABLE		
1200658891	804000H09M003	0.3m
1200658640	804000H09M010	1m
1200657395	804000H09M012	1.2m
1200658550	804000H09M015	1.5m
1200658178	804000H09M020	2m

NOTES:

* - Part No. with Yellow PVC overmolding

** - Part No. with Black PVC overmolding

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DIVISIONAL SYMBOLS

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: RETRACTED P/N 1200658191 AS PER PCN#516775.

EC NO: 823996

DRWN:	ANIKES1	2025/05/30
CHK'D:	GGA	2025/05/30
APPR:	GGA	2025/05/30

INITIAL REVISION:

DRWN:	JMARSZALEK	2016/01/11
APPR:	RSILLER	2016/04/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200651978	PSD	000	A13

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE SHEET 3-4	GENERAL MARKET	3 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/30 10:55:41

FORMAT: master_format-A3
REVISION: J1
DATE: 2021/05/06

PART LIST

Part No.	Engineering No.	Cable Length
1200658641	804000H09M040	4m
1200658179	804000H09M050	5m
1200064434	804000H09M050G	5m
1200658008	804000H09M050H	5m
1200658190	804000H09M100	10m
1200658191	804000H09M150	15m
1200658009	804000H09M100H	10m
1200658880	804000H09M200	20m
1200065006	804000H09M250G	25m
5P H09 CABLE		
1200658632	805000H09M010	1m
1200658633	805000H09M015	1.5m
1200658172	805000H09M020	2m
1200658634	805000H09M030	3m
1200658635	805000H09M040	4m
1200658173	805000H09M050	5m
1200658174	805000H09M100	10m
1200657306	805000H09M100H	10m
1200658780	805000H09M200	20m
1200659144	805000H09M300	30m
1200657264	805000H09M500	50m
4P P02 CABLE		
1200658609	804000P02M020	2m
1200658927	804000P02M050	5m
8P P02 CABLE		
1200655073	808000P02M003	0.3m
1200658525	808000P02C350	0.35m
1200651794	808000P02M010	1m
1200659399	808000P02M015	1.5m
1200650951	808000P02M020	2m
1200658022	808000P02M030	3m
1200650952	808000P02M040	4m
1200650953	808000P02M050	5m
1200659552	808000P02M050H	5m
1200659092	808000P02M050Y	5m
1200650954	808000P02M060	6m

Part No.	Engineering No.	Cable Length
1200651795	808000P02M070	7m
1200650955	808000P02M080	8m
1200650956	808000P02M0801	8m
1200650957	808000P02M100	10m
1200659553	808000P02M100H	10m
1200659397	808000P02M100Y	10m
1200658021	808000P02M150	15m
1200659554	808000P02M150H	15m
1200651817	808000P02M200	20m
1200659334	808000P02M200H	20m
1200651818	808000P02M250	25m
1200651820	808000P02M300	30m
1200656766	808000P02M350	35m
1200656767	808000P02M400	40m
3P P03 CABLE		
1200061765	803000P03M002	0.2m
1200062098	803000P03M006	0.6m
1200060152	803000P03M010	1m
1200060004	803000P03M020	2m
1200060153	803000P03M030	3m
1200065012	803000P03M030G	3m
1200064093	803000P03M032	3.2m
1200658610	803000P03M040	4m
1200060005	803000P03M050	5m
1200651769	803000P03M050G	5m
1200063415	803000P03M0707	7m
1200060006	803000P03M100	10m
1200063673	803000P03M1001	10m
1200062811	803000P03M100H	10m
1200060157	803000P03M150	15m
1200060158	803000P03M200	20m
1200062772	803000P03M250	25m

Part No.	Engineering No.	Cable Length
4P P03 CABLE		
1200063402	804000P03M003	0.3m
1200658321	804000P03M005	0.5m
1200063940	804000P03M0051	0.5m
1200063121	804000P03M0053	0.5m
1200061785	804000P03M006	0.6m
1200658064	804000P03M010	1m
1200659388	804000P03M012	1.2m
1200658545	804000P03M015	1.5m
1200060018	804000P03M020	2m
1200060456	804000P03M0201	2m
1200659370	804000P03M020Y	2m
1200060034	804000P03M025	2.5m
1200060457	804000P03M030	3m
1200652143	804000P03M040	4m
1200060019	804000P03M050	5m
1200060458	804000P03M0501	5m
1200651780	804000P03M050G	5m
1200062347	804000P03M050H	5m
1200659088	804000P03M050HY	5m
1200652144	804000P03M060	6m
1200656436	804000P03M0601	6m
1200651782	804000P03M100	10m
1200659302	804000P03M1005	10m
1200658492	804000P03M100G	10m
1200062167	804000P03M100H	10m
1200659123	804000P03M100HY	10m
1200064033	804000P03M120	12m
1200062853	804000P03M150	15m
1200659340	804000P03M1501	15m
1200060461	804000P03M200	20m

Part No.	Engineering No.	Cable Length
1200659474	804000P03M250	25m
1200659341	804000P03M2501	25m
1200659475	804000P03M300	30m
1200657129	804000P03M400	40m
1200657130	804000P03M500	50m
5P P03 CABLE		
1200060646	805000P03M003	0.3m
1200659282	805000P03M005	0.5m
1200659283	805000P03M007	0.7m
1200658197	805000P03M010	1m
1200060647	805000P03M020	2m
1200065004	805000P03M0201	2m
1200659326	805000P03M020H	2m
1200062521	805000P03M030	3m
1200658020	805000P03M040	4m
1200651792	805000P03M050	5m
1200652154	805000P03M060	6m
1200060649	805000P03M100	10m
1200658991	805000P03M100H	10m
1200061431	805000P03M150	15m
1200659329	805000P03M150H	15m
1200064292	805000P03M200	20m
1200659330	805000P03M200H	20m
1200659214	805000P03M300	30m
1200659594	805000P03M300H	30m
1200659595	805000P03M350H	35m

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

FUNCTIONAL SYMBOLS: FA = 0; FC = 0; FD = 0

DIVISIONAL SYMBOLS

DIMENSION UNITS	SCALE
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

CURRENT REV DESC: RETRACTED P/N 1200658191 AS PER PCN#516775.

EC NO: 823996

DRWN:	ANIKES1	2025/05/30
CHK'D:	GGA	2025/05/30
APPR:	GGA	2025/05/30

INITIAL REVISION:

DRWN:	JMARSZALEK	2016/01/11
APPR:	RSILLER	2016/04/08

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

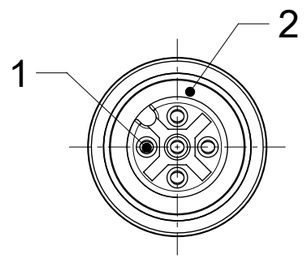
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200651978	PSD	000	A13

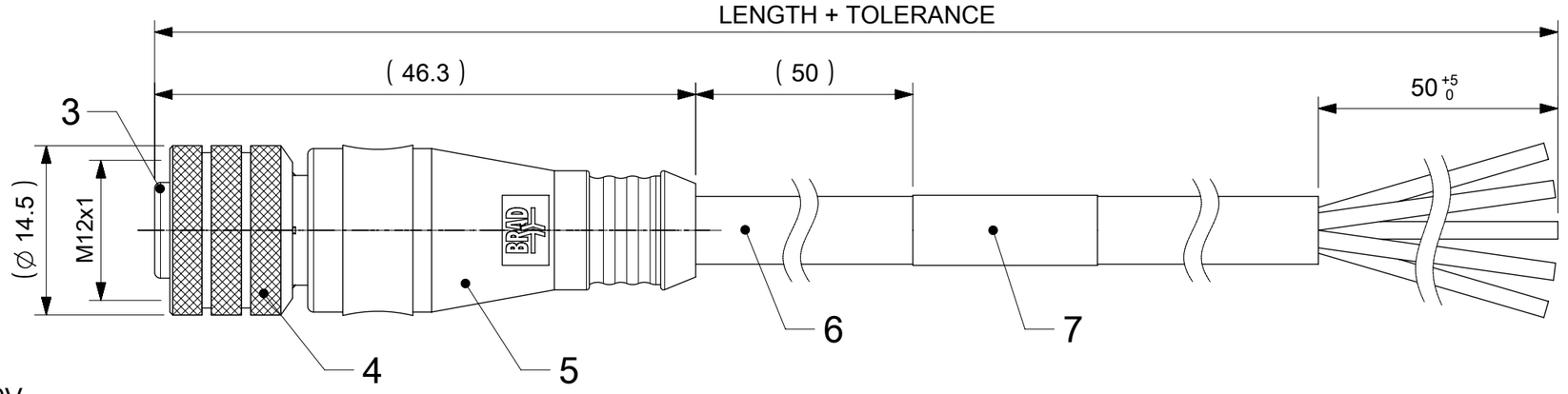
THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120065	SEE SHEET 3-4	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/05/30 10:55:41

FORMAT: master_B_prod-A3
REVISION: J1
DATE: 2021/05/07

FEMALE PLUG M12 STRAIGHT





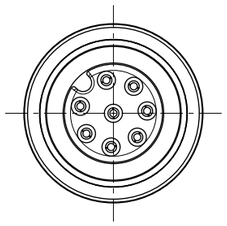
NOTES:

RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V

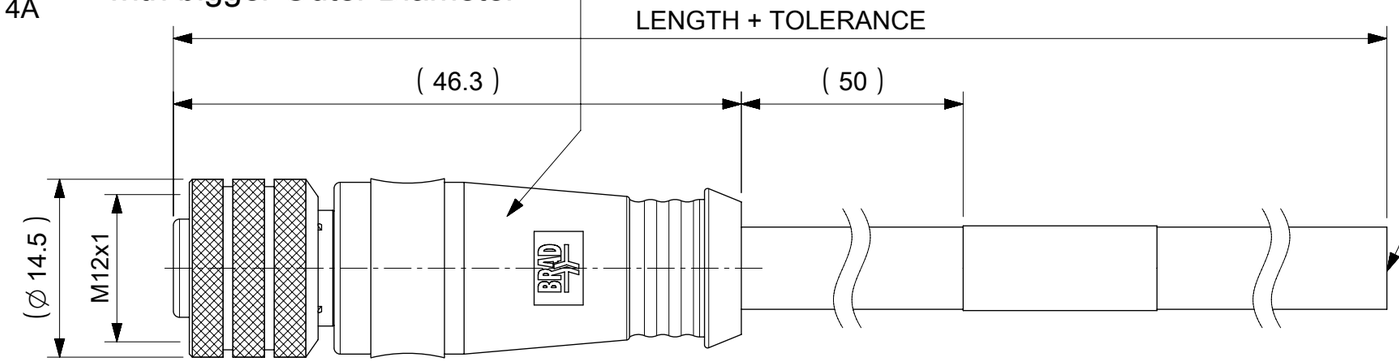
RATED CURRENT: 3, 4, 5 contacts 4A
8 contacts 2A

PROTECTION CLASS: IP 67

TEMPERATURE: -25°C / +85°C

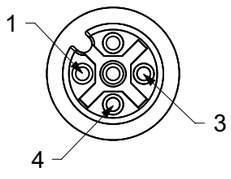
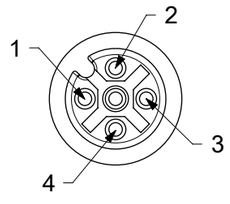
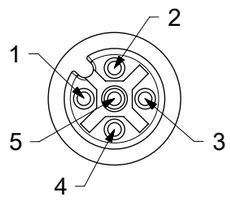
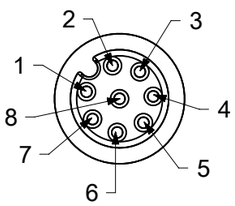


Thicker Overmold for Cables with bigger Outer Diameter



For Shielded Cables testing ends are cut off after test

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 OR YELLOW/GREEN	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY OR YELLOW/GREEN	5	GREY
						6	PINK
						7	BLUE
						8	RED

CODING REQUIRED TO IEC 61076-2-101

DOCUMENT STATUS	P1	RELEASE DATE	2025/11/25 05:37:45

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES Ixx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLDING BLACK	TPU	---
4	1	COUPLING NUT FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	PUR	---
2	1	ORING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT M12 FEMALE	BRASS	SELECTIVE Au OVER Ni

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: REMOVED OBSOLETED PART NUMBER AS PER PCN#517152

EC NO: 840847
DRWN: VHANDI 2025/06/17
CHK'D: GGA 2025/11/25
APPR: GGA 2025/11/25

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

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200658605	PSD	000	A9

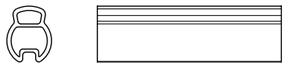
MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 4

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

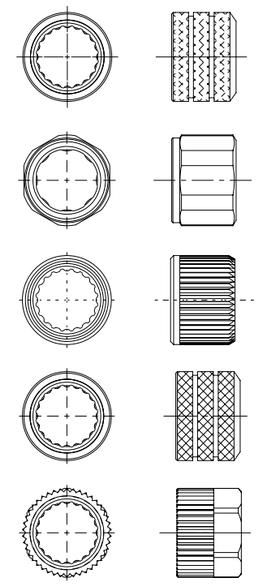
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

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, C=Centimeter
- Length Examples: 005=0.5 unit, 010=1 unit, 100=10 units
- OPTIONS
  - Overmold color: Blank (Standard)=Black TPU; Blank=Yellow TPU for cables A09,S19,S20,S26; Blank=Yellow TPE-E for cables K03,K05; 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; Blank=7 for cables I20, I26, K03, K05, P82, S26; 9=Knurled / Hexagonal Brass Ni Plated SW13
  - H= 2 pcs. of I/D Carrier PVC Transparent (Cables Ixx & P82 always with 2 pcs. of I/D Carrier even if no H in Engineering No.)

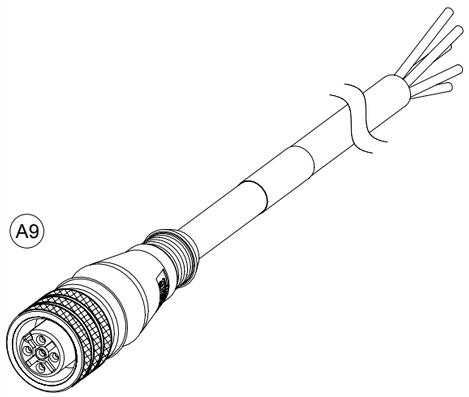


COUPLING NUTS



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	TICK-TOCK TEST	TORSION TEST
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-		
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-		
E63	5	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES		
H12	4	0.50mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-50°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000, Temp max 60°C	-		
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-		
I02	3 / 4 / 8	0.25mm²	PVC CEI 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	-	-		
I04	4	0.50mm²	PVC CEI GREY	-	-	-25°C to +70°C	-5°C to +70°C	-	-		
I20	3 / 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	0.75mm²	TPE YELLOW	UL JEC 60332-1 or PLTC	I/II 90°C/300V	-	-	2 000 000, at temp 20°C	-	up to 6.5 Million cycles	up to 5 Million cycles
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	2 000 000, at temp 20°C	-	up to 6.5 Million cycles	up to 5 Million cycles
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	-	-		
P19	8	0.25mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	2 000 000 cycles, 15xO.D.	YES		
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES		
P82	3 / 4 / 5	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		



SCALE 1:1

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

DOCUMENT STATUS	P1	RELEASE DATE	2025/11/25 05:37:45

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: REMOVED OBSOLETED PART NUMBER AS PER PCN#517152

EC NO: 840847
DRWN: VHANDI 2025/06/17
CHK'D: GGA 2025/11/25
APPR: GGA 2025/11/25

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

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200658605	PSD	000	A9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	2 OF 4

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

PART LIST

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE E13		
1200658524	803000E13M030	3000
3P CABLE E52		
1200651767	803000E52M050A	5000
1200658293	803000E52M3001A	30000
4P CABLE E52		
1200064254	804000E52M010A	1000
1200651778	804000E52M050A	5000
1200651857	804000E52M100A	10000
1200060436	804000E52M200A	20000
1200061620	804000E52M3001A	30000
1200063819	804000E52K0011A	100000
8P CABLE E52		
1200657335	808000E52M005	500
1200658236	808000E52M020	2000
1200062049	808000E52M050	5000
1200659997	808000E52M100	10000
5P CABLE E63		
1200658015	805000E63M020A	2000
4P CABLE H12		
1200659593	804000H12M020	2000
1200659767	804000H12M0209	2000
1200659768	804000H12M0309	3000
1200659113	804000H12M050	5000
1200659769	804000H12M0509	5000
1200659271	804000H12M100	10000
1200659770	804000H12M1009	10000
3P CABLE H69		
1200062094	803000H69M050	5000
4P CABLE H69		
1200658242	804000H69M300	30000
8P CABLE I02		
1200658677	808000I02M010	1000
1200658678	808000I02M020	2000
1200658679	808000I02M030	3000
1200658680	808000I02M040	4000
1200658681	808000I02M050	5000
1200658682	808000I02M100	10000

MOLEX P/N	ENGINEERING No.	L [mm]
3P CABLE I03		
1200060145	803000I03M020	2000
1200659119	803000I03M020Y	2000
1200658593	803000I03M040	4000
1200060030	803000I03M050	5000
1200659064	803000I03M050Y	5000
1200060148	803000I03M100	10000
4P CABLE I03		
1200658599	804000I03M010	1000
1200658701	804000I03M010G	1000
1200060452	804000I03M020	2000
1200658702	804000I03M020G	2000
1200659075	804000I03M020Y	2000
1200060454	804000I03M030	3000
1200658703	804000I03M030G	3000
1200659177	804000I03M030Y	3000
1200658600	804000I03M040	4000
1200658704	804000I03M040G	4000
1200060017	804000I03M050	5000
1200658705	804000I03M050G	5000
1200659060	804000I03M050Y	5000
1200063205	804000I03M060	6000
1200064230	804000I03M080	8000
1200060033	804000I03M100	10000
1200061970	804000I03M100A	10000
1200658706	804000I03M100G	10000
1200659065	804000I03M100Y	10000
1200061955	804000I03M200A	20000
1200061956	804000I03M300A	30000
1200061957	804000I03M400A	40000
5P CABLE I03		
1200658605	805000I03M010	1000
1200658283	805000I03M020	2000
1200060644	805000I03M030	3000
1200658606	805000I03M040	4000
1200062003	805000I03M050	5000
1200063824	805000I03M050G	5000
1200659085	805000I03M050Y	5000
1200060645	805000I03M100	10000
1200655025	805000I03M100G	10000
1200659371	805000I03M100Y	10000

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE I04		
1200063562	804000I04M030	3000
1200659621	804000I04M050	5000
3P CABLE I20		
1200061559	803000I20M100	10000
1200659558	803000I20M100Y	10000
4P CABLE I20		
1200064164	804000I20M020	2000
1200658221	804000I20M050	5000
1200064161	804000I20M100	10000
1200658543	804000I20M150	15000
5P CABLE I26		
1200658817	805000I26M010	1000
1200061727	805000I26M050	5000
1200659116	805000I26M050Y	5000
1200062969	805000I26M100	10000
1200659090	805000I26M100Y	10000
4P CABLE K03		
1200652022	804000K03M006	600
1200651287	804000K03M010	1000
1200651293	804000K03M050	5000
1200651300	804000K03M100	10000
5P CABLE K03		
1200651367	805000K03M020	2000
1200651370	805000K03M050	5000
1200651373	805000K03M100	10000
3P CABLE K05		
1200651108	803000K05M020	2000
1200651110	803000K05M050	5000
4P CABLE K05		
1200651121	804000K05M020	2000
1200651122	804000K05M030	3000
1200651124	804000K05M050	5000
1200651126	804000K05M100	10000

NOTES:

✱ - Part No. with Yellow 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
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

CURRENT REV DESC: REMOVED OBSOLETED PART NUMBER AS PER PCN#517152

EC NO: 840847
DRWN: VHANDI 2025/06/17
CHK'D: GGA 2025/11/25
APPR: GGA 2025/11/25

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

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200658605	PSD	000	A9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	3 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/11/25 05:37:45

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

PART LIST

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE P04		
1200063017	804000P04M0083	800
1200063114	804000P04M0163	1600
1200062364	804000P04M020G	2000
3P CABLE P12		
1200063141	803000P12M0033	300
5P CABLE P12		
1200063041	805000P12M0033	300
1200658086	805000P12M020	2000
1200064445	805000P12M023	2300
1200659393	805000P12M050	5000
1200062858	805000P12M100	10000
8P CABLE P19		
1200062765	808000P19M020	2000
1200062675	808000P19M030	3000
1200062676	808000P19M050	5000
1200655074	808000P19M060	6000
1200652019	808000P19M100	10000
1200658104	808000P19M150	15000

MOLEX P/N	ENGINEERING No.	L [mm]
4P CABLE P20		
1200064490	804000P20M020	2000
1200062656	804000P20M030	3000
1200062657	804000P20M050	5000
1200062604	804000P20M100	10000
1200062869	804000P20M150	15000
1200658282	804000P20M250	25000
5P CABLE P20		
1200063913	805000P20M003	300
1200659049	805000P20M050	5000
1200063035	805000P20M100	10000
1200659635	805000P20M300	30000
5P CABLE P82		
1200065005	805000P82M0207	2000
1200060715	805000P82M050	5000
1200658299	805000P82M100	10000
1200659026	805000P82M1007	10000
8P CABLE S19		
1200658256	808000S19M006	600
1200656198	808000S19M010	1000
1200656199	808000S19M020	2000
1200656200	808000S19M030	3000
1200656201	808000S19M050	5000
1200658972	808000S19M100	10000
1200868439	808000S19M150	15000
1200659183	808000S19M150H	15000
1200659175	808000S19M200H	20000

MOLEX P/N	ENGINEERING No.	L [mm]	
3P CABLE S20			
1200063569	803000S20M003	300	
1200060166	803000S20M010	1000	
1200060167	803000S20M020	2000	
1200060168	803000S20M030	3000	
1200060170	803000S20M050	5000	
1200659390	803000S20M070	7000	
1200060171	803000S20M100	10000	
1200060173	803000S20M150	15000	
4P CABLE S20			
1200060469	804000S20M010	1000	
1200062496	804000S20M010H	1000	
1200060470	804000S20M020	2000	
1200060471	804000S20M0201	2000	*
1200062268	804000S20M020H	2000	
1200060472	804000S20M030	3000	
1200062040	804000S20M030H	3000	
1200060474	804000S20M050	5000	
1200063859	804000S20M0501	5000	*
1200063182	804000S20M0501H	5000	
1200062037	804000S20M050H	5000	
1200060476	804000S20M100	10000	
1200063409	804000S20M1001	10000	*
1200062363	804000S20M100H	10000	
1200060478	804000S20M150	15000	
1200655010	804000S20M150H	15000	
1200063993	804000S20M200	20000	
1200063684	804000S20M2001	20000	*
1200659376	804000S20M350	35000	
5P CABLE S20			
1200658474	805000S20M020	2000	
1200658230	805000S20M050	5000	
5P CABLE S26			
1200658252	805000S26M020	2000	
1200655003	805000S26M050	5000	
1200655009	805000S26M100	10000	
1200659989	805000S26M200	20000	

NOTES:

* - Part No. with Yellow PVC overmolding

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: REMOVED OBSOLETED PART NUMBER AS PER PCN#517152

EC NO: 840847
DRWN: VHANDI 2025/06/17
CHK'D: GGA 2025/11/25
APPR: GGA 2025/11/25

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

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120065

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200658605	PSD	000	A9

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	4 OF 4

DOCUMENT STATUS	P1	RELEASE DATE	2025/11/25 05:37:45

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