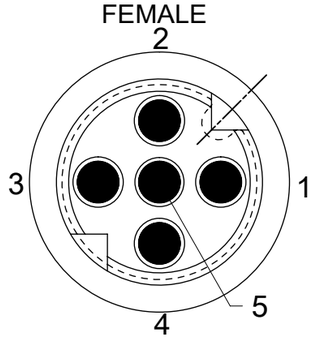
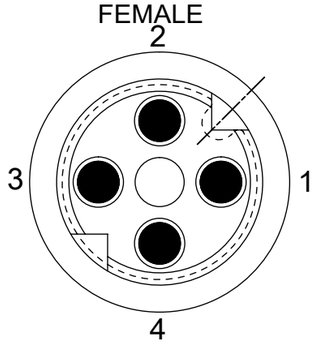
M12 5POLE
FEMALE



VIEW FROM THE WIRES SIDE

PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GRAY

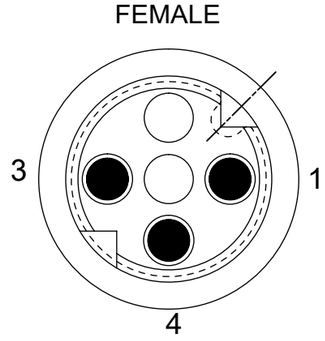
M12 4POLE
FEMALE



VIEW FROM THE WIRES SIDE

PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK

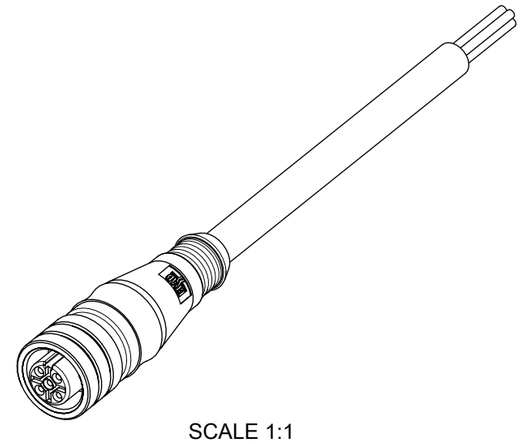
M12 3POLE
FEMALE



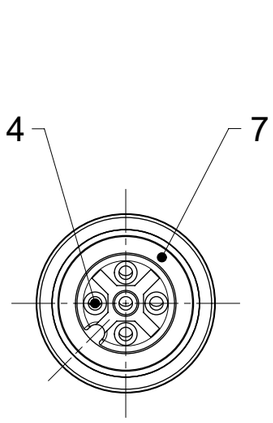
VIEW FROM THE WIRES SIDE

PIN	WIRE COLOR
1	BROWN
2	-
3	BLUE
4	BLACK

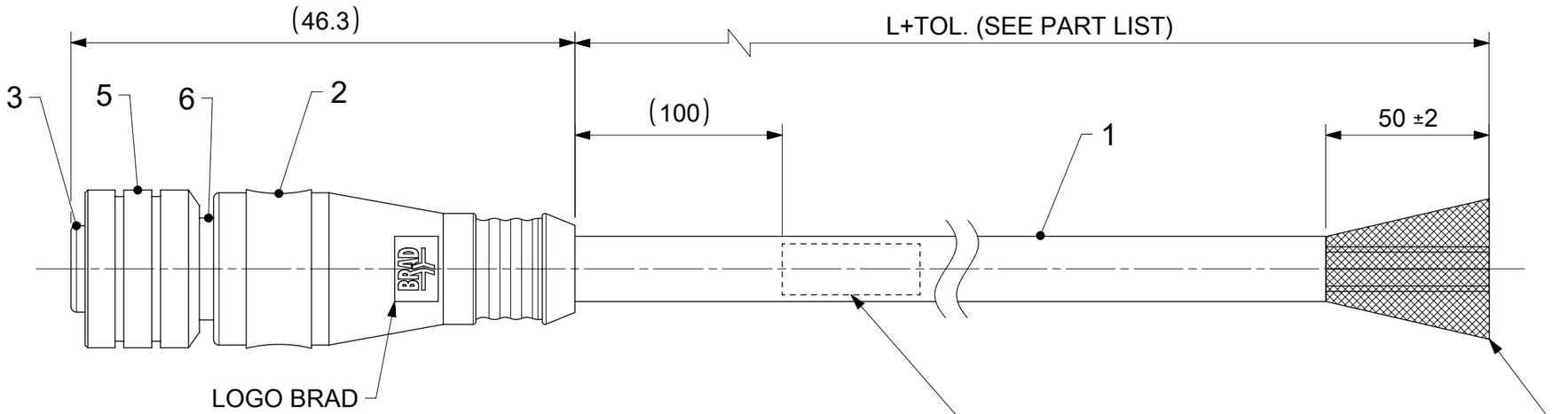
SHIELD CONNECTED TO THE COUPLING NUT



SCALE 1:1



VIEW FROM THE FRONT SIDE



LOGO BRAD

SHIELD SAME LENGTH AS SINGLE STRAND

PRINTING ON THE CABLE: MOLEX "MOLEX PN" "ENGINEERING PN" MXYYWW

SEE PART LIST

PENDING APPROVAL

DATE ACCORDING WITH WN-00001

NOTES:
ELECTRICAL DATA:
VOLTAGE RATING: 250 V (FOR 3 & 4 POLE)
60 V (FOR 5 POLE)
AMPERAGE RATING: 4A
INSULATION RESISTANCE: 10^8 Ω MIN.
MATING CYCLES: MIN. 100
ENVIRONMENTAL:
PROTECTION: IP67 IN MATED AND LOCKED POSITION.
OPERATING TEMPERATURE: -25°C TO +85°C

DOCUMENT STATUS	RQ	RELEASE DATE	

FORMAT: master_D_rev2-A3
REVISION: J1
DATE: 2021/05/07

FUNCTIONAL SYMBOLS
FA = 0
FC = 0
FP = 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	SCALE
mm	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: INITIAL RELEASE
EC NO: 771896
DRWN: CRAODOREMS 2023/12/12
CHK'D:
APPR:

INITIAL REVISION:
DRWN: CRAODOREMS 2023/12/12
APPR:

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120069

molex

CSE M12 XP AC FE STR PVC/PUR XM SE SHLD

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200695299	PSD	000	A

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 2

PART No. MATRIX

0	8	1	1	-	0	5	1	K	F	-	X	X	X	0	0

- 0811 — OVERMOULDED M12 FAMILY SHIELDED
- 05 — NO OF POLES: 03 - 3 POLES; 04 - 4 POLES; 05 - 5 POLES
- 1 — CONNECTOR TYPE: 1-STRAIGHT
- KF — FEMALE CONNECTOR
- XX — LENGTH: 01 - 1M; 02 - 2M; 05 - 5M; 15 - 15M; 20 - 20M; 90 - 1.5M; 91 - 0.6M; 92 - 0.3M; 93 - 2.5M; 94 - 3.5M; 95 - 7.5M
- X — TYPE OF CABLE: 5 - PVC SHIELDED; 6 - PUR SHIELDED

CABLE TABLE

No. OF POLES	CABLE TYPE	CROSS SECTION	MATERIAL	COLOR	OUTER DIAMETER
3P	5	3x0.25mm²	PVC	BLACK	4.4mm
	6	3x0.25mm²	PUR	BLACK	4.4mm
4P	5	4x0.25mm²	PVC	BLACK	4.8mm
	6	4x0.25mm²	PUR	BLACK	4.8mm
5P	5	5x0.25mm²	PVC	BLACK	5.3mm
	6	5x0.25mm²	PUR	BLACK	5.3mm

PART LIST

MOLEX PN	ENGINEERING NO	L[mm]
1200695231	0811 031KF 05500	5000
1200695232	0811 031KF 05600	5000
1200695237	0811 041KF 02600	2000
1200695238	0811 041KF 05500	5000
1200695239	0811 041KF 05600	5000
1200695243	0811 041KF 06500	6000
1200695244	0811 041KF 10500	10000
1200695245	0811 041KF 10600	10000
1200695247	0811 041KF 11600	11000
1200695249	0811 041KF 15600	15000
1200695251	0811 041KF 30600	30000
1200695295	0811 051KF 02600	2000
1200695298	0811 051KF 05500	5000
1200695299	0811 051KF 05600	5000
1200695301	0811 051KF 10500	10000
1200695302	0811 051KF 10600	10000
1200695305	0811 051KF 15600	15000
1200698172	0811 051KF 25600	25000
1200698181	0811 051KF 20600	20000
1200698187	0811 051KF 20500	20000

DOCUMENT STATUS	RQ	RELEASE DATE	

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

BOM

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR
1	-	CABLE	SEE CABLE TABLE	BLACK
2	-	OVERMOLD	TPU	BLACK
3	1	M12 5P FEMALE INSERT	PUR	BLACK
		M12 4P FEMALE INSERT		
		M12 3P FEMALE INSERT		
4	5/4/3	CONTACT 10 FEMALE	BRONZE	SELECTIVE GOLD OVER NI
5	1	M12 FEMALE NUT	BRASS	Ni-PLATED
6	1	M12 FEMALE SHIELD	BRASS	Ni-PLATED
7	1	GASKET 7.1X1.35	FPM	RED

PENDING APPROVAL

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: 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: INITIAL RELEASE

EC NO: 771896
DRWN: CRAODOREMS 2023/12/12
CHK'D:
APPR:

INITIAL REVISION:
DRWN: CRAODOREMS 2023/12/12
APPR:

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120069

molex

CSE M12 XP AC FE STR PVC/PUR XM SE SHLD

PRODUCT CUSTOMER DRAWING

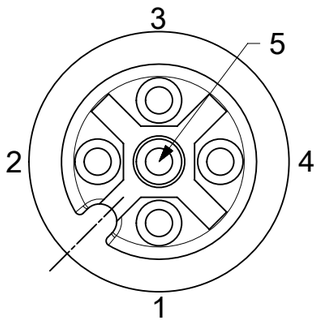
DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200695299	PSD	000	A

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

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

REVISION A1	TRANSFERRED TO ECTR

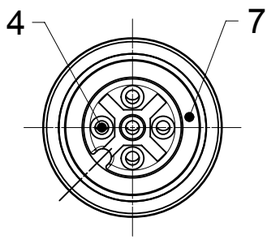
M12 5POLE
FEMALE



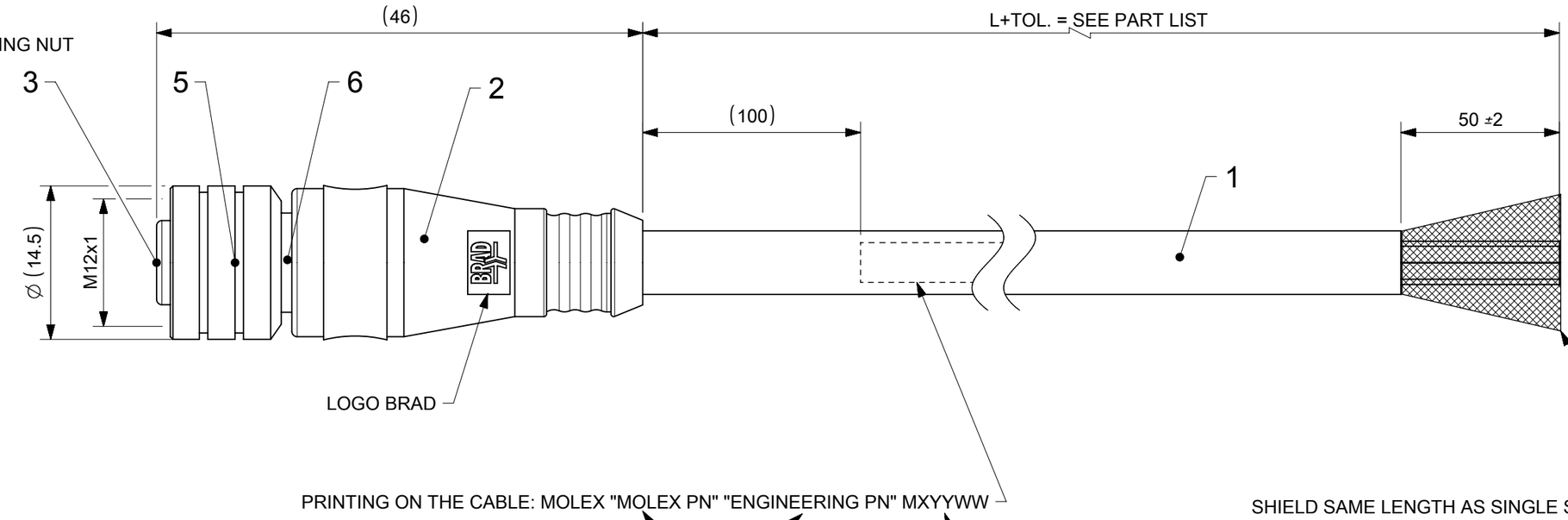
VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BROWN
2	WHITE
3	BLUE
4	BLACK
5	GRAY

SHIELD CONNECTED TO THE COUPLING NUT



VIEW FROM THE FRONT SIDE



LOGO BRAD

PRINTING ON THE CABLE: MOLEX "MOLEX PN" "ENGINEERING PN" MXYYWW

SHIELD SAME LENGTH AS SINGLE STRAND

SEE PART LIST

DATE ACCORDING WITH WN-00001

TECHNICAL SPECIFICATION:
VOLTAGE RATING: 30V AC/DC
AMPERAGE RATING: MAX. 3A
PROTECTION: IP67
OPERATING TEMPERATURE: -10°C TO + 90°C

SYMBOLS	
EW = 0	
EC = 0	
EF = 0	
S = 0	
▼ = 0	
C = 0	
☒ = 0	
■ = 0	
▽ = 0	

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	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 607550
DRWN: MCELEJEWSKI 2018/11/13
CHK'D: DSTACHOWIAK 2018/11/14
APPR: DSTACHOWIAK 2018/11/14

INITIAL REVISION:
DRWN: AKONDRACIUK 2015/08/06
APPR: MIWASIECZKO 2015/09/08

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120069

molex

M12 SHIELDED FEMALE STR

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120069-033	PSD	001	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	CUSTOM	1 OF 2

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/14 09:22:01

FORMAT: master_format-A3
REVISION: R
DATE: 2018/01/15

PART No MATRIX

0	8	1	1	-	0	5	1	K	F	-	X	X	X	0	0

- 0811 — OVERMOULDED M12 FAMILY SHIELDED
- 05 — NO OF POLES: 05 - 5 POLES
- 1 — CONNECTOR TYPE: 1- STRAIGHT
- KF — FEMALE CONNECTOR
- XX — LENGHT: 01 - 1M; 02 - 2M; 05 - 5M; 15 - 15M; 20 - 20M; 90 - 1.5M; 91 - 0.6M; 92 - 0.3M; 93 - 2.5M; 94 - 3.5M; 95 - 7.5M
- X — TYPE OF CABLE: 5 - PVC SHIELDED; 6 - PUR SHIELDED
- 00

CABLE TABLE

CABLE TYPE	MOLEX PN	CROSS SCETION	MATERIAL	COLOR	OUTER DIAMETER
5	1202090206	5x0.25mm2	PVC	BLACK	5.3mm
6	1202090195	5x0.25mm2	PUR	BLACK	5.3mm

PART LIST

MOLEX PN	ENGINEERING NO	L+TOL. [mm]
1200695295	0811 051KF 02600	2000+89
1200695298	0811 051KF 05500	5000+165
1200695299	0811 051KF 05600	5000+165
1200695301	0811 051KF 10500	10000+317
1200695302	0811 051KF 10600	10000+317
1200695305	0811 051KF 15600	15000+610
1200698172	0811 051KF 25600	25000+610
1200698181	0811 051KF 20600	20000+610
1200698187	0811 051KF 20500	20000+610

DOCUMENT STATUS	P1	RELEASE DATE	2018/11/14 09:22:01

BOM

ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/ COLOR
7	1	GASKET 7.1X1.35	FPM	RED
6	1	M12 FEMALE SHIELD	BRASS	Ni-PLATED
5	1	NUT M12 FEMALE	BRASS	Ni-PLATED
4	5	CONTACT 10 FEMALE	BRASS	GOLD OVER NICKEL
3	1	MMC 5P FEMALE INSERT	PUR	BLACK
2	-	MOULDING MATERIAL	TPU	BLACK
1	-	CABLE 5X0.25 D5.3MM	SEE CABLE TABLE	BLACK

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

SYMBOLS: EA = 0; EC = 0; EB = 0; S = 0; ▼ = 0; C = 0; ☒ = 0; ■ = 0; ▽ = 0

DIMENSION UNITS	SCALE
mm	1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL	± 1.0 °
4 PLACES	±
3 PLACES	±
2 PLACES	±
1 PLACE	±
0 PLACES	±

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

CURRENT REV DESC:

EC NO: 607550
DRWN: MCELEJEWSKI 2018/11/13
CHK'D: DSTACHOWIAK 2018/11/14
APPR: DSTACHOWIAK 2018/11/14

INITIAL REVISION:
DRWN: AKONDRACIUK 2015/08/06
APPR: MIWASIECZKO 2015/09/08

molex

M12 SHIELDED FEMALE STR

PRODUCT CUSTOMER DRAWING

THIRD ANGLE PROJECTION	DRAWING	SERIES
	A3-SIZE	120069

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
SD-120069-033	PSD	001	A1

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	CUSTOM	2 OF 2

FORMAT: master_Sheet-A3
REVISION: H
DATE: 2018/01/16