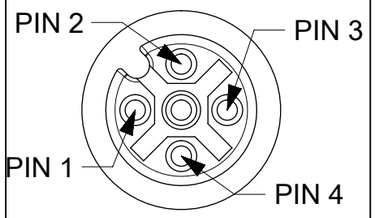
M12 4 POLE FEMALE
VIEW FROM THE FRONT SIDE



Pin	Wire Kolor
1	BROWN
2	WHITE
3	BLUE
4	BLACK

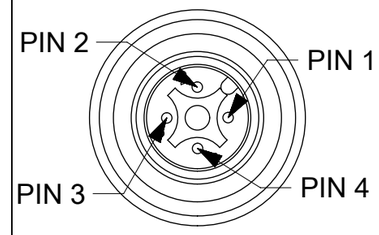
PART No MATRIX

8	W	4	0	3	1	P	0	3	M	*	*	*	*	*

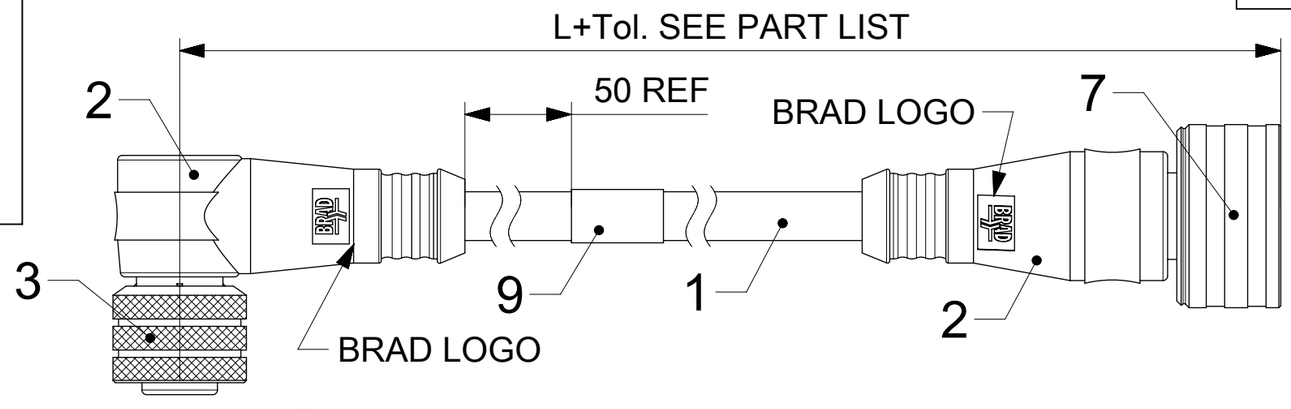
OPTIONS

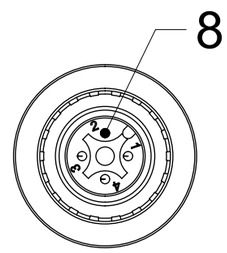
- 88 = M12xM12U DOUBLE ENDED
- POLES: 4=4 POLES
- HEADER: 031 = FEMALE RIGHT ANGLED - MALE STRAIGHT
- CABLE TYPE
- UNIT: M = METER, F = FEET, A = INCHES, C = CENTIMETERS
- LENGTH: EXAMPLE: 010 = 1 UNIT, 050 = 5 UNIT, 100 = 10 UNIT
- H = 2 PCS. OF I/D CARIERR
- COUPLIN NUT: BLANK = KNU; 1, 8 = STAINLESS STEEL; 5 = DERLIN; 7 = TEFLON KNU; 9 = KNU/HEX
- OVERMOULD: BLANK = BLACK; A = GREY; G = BLACK; Y = YELLOW

M12U 4 POLE MALE
VIEW FROM THE FRONT SIDE

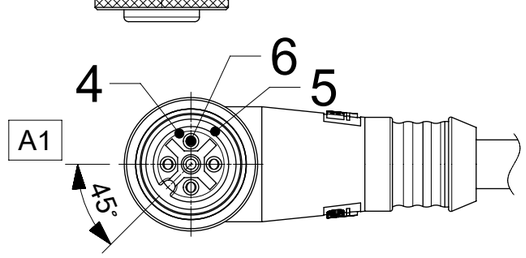


Pin	Wire Kolor
1	BROWN
2	WHITE
3	BLUE
4	BLACK





VIEW FROM THE FRONT SIDE



VIEW FROM THE FRONT SIDE

9	1	LABEL STANDARD YE	VINYL	-
8	4	CONTACT MA	BRASS	GOLD OVER Ni-PLATED
7	1	ULTRA-LOCK MA 4P	-	-
6	4	CONTACT FE	BRONZE	GOLD OVER Ni-PLATED
5	1	GASKET RD	FPM	-
4	1	INSERT M12 FE 4P BK	PUR	-
3	1	COUPLING NUT FE M12	BRASS	Ni-PLATED
2	-	MOULDING MATERIAL BK	TPU	-
1	-	CABLE 4x0.34 BK	PUR	-
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

PART LIST

MOLEX PN	ENGINEERING No	L [mm]
1200808006	8W4031P03M050	5000
1200808010	8W4031P03M020	2000
1200808013	8W4031P03M030	3000
1200808014	8W4031P03M040	4000
1200808022	8W4031P03M006	600
1200808152	8W4031P03M010	1000

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

CHANGES SEE REVISION MARKING A1	CHANGED POSITION K-WAY

QUALITY SYMBOLS: FA = 0; FC = 0; FD = 0; ▼ = 0; C = 0; ☒ = 0; ■ = 0; C = 0

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EC NO: 108911 2016/09/20
DRWN: MMATLA
CHK'D:
APPR: MIWASIECZKO 2016/09/29
REV A1

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

DIMENSION UNITS: MM
SCALE: 1:1
DRWN BY: AKONDRACIUK DATE: 2016/09/13
CHK'D BY: DATE:
APPR BY: MIWASIECZKO DATE: 2016/09/14
DRAWING SIZE: A3
THIRD ANGLE PROJECTION

molex®

UL.M12-4P-FE/M-90/ST-XM-PUR

PRODUCT CUSTOMER DRAWING

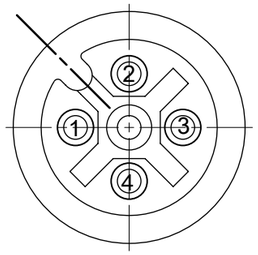
SERIES	MATERIAL NUMBER	CUSTOMER
120080	SEE PART LIST	

DOCUMENT NUMBER	DOC TYPE	DOC PART	SHEET NUMBER
1200808006	PSD	00P	1 OF 1

RELEASE STATUS	P1	RELEASE DATE	29.09.2016 20:08:04

FORMAT: master-tb-prod-A3
REVISION: G
DATE: 2015/12/14

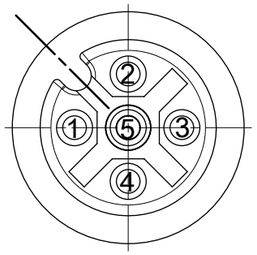
FEMALE
M12 4 POLE



VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BN
2	WH
3	BU
4	BK

M12 5 POLE



VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BN
2	WH
3	BU
4	BK
5	GY

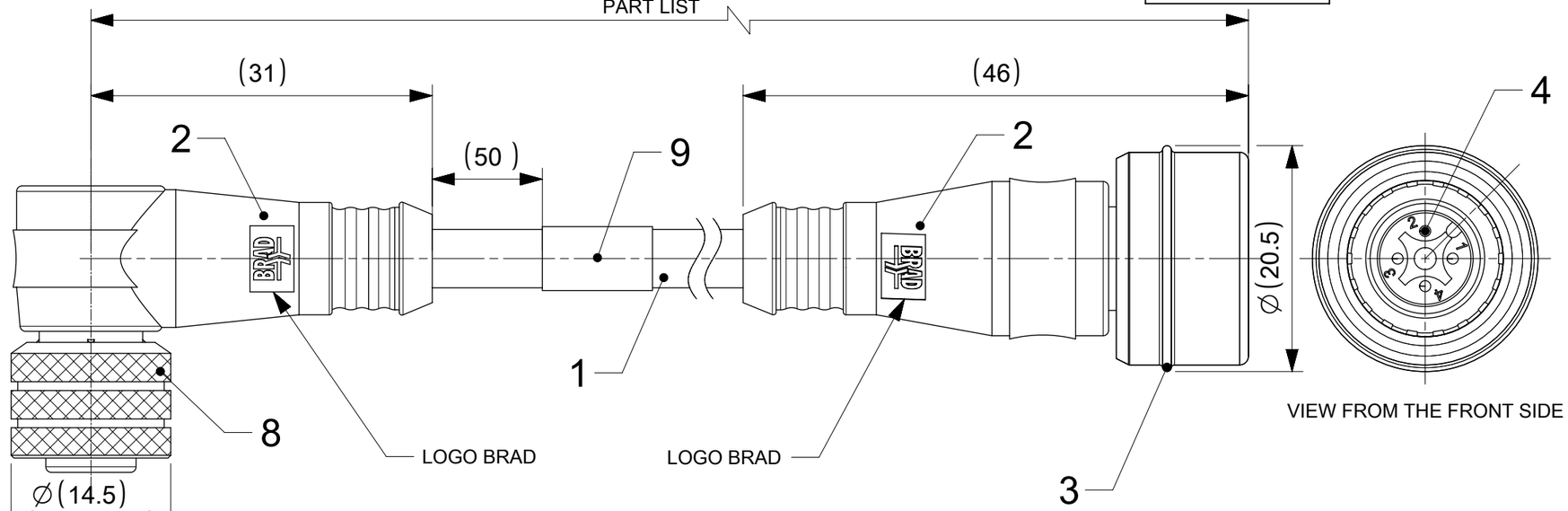
PART No MATRIX

OPTIONS

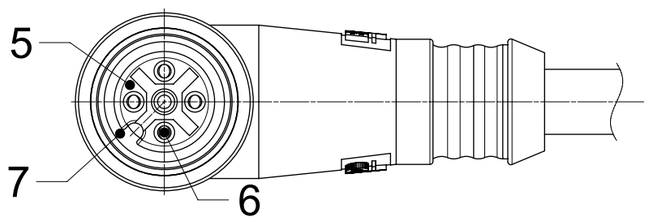
8	W	X	0	3	1	X	X	X	M	*	*	*	*	*

- 88 = M12xM12U DOUBLE ENDED
- POLES: 4=4 POLES, 5=5 POLES
- HEADER: 031 = FEMALE RIGHT ANGLED - MALE STRAIGHT
- CABLE TYPE : E03 - 5 WIRE, P03 - 4 WIRE
- UNIT: M = METER, F = FEET, C = CENTIMETERS
- LENGTH: EXAMPLE : 010 = 1 UNIT, 050 = 5 UNIT, 100 = 10 UNIT
- H = 2 PCS. OF I/D CARIERR
- COUPLIN NUT : BLANK = KNU, 1, 8 = STAINLESS STEEL, 5 = DERLIN, 7 = TEFLON KNU, 9 = KNU/HEX
- OVERMOULD: BLANK = BLACK, A = GREY, G = BLACK, Y = YELLOW

L + Tol.[mm]
PART LIST

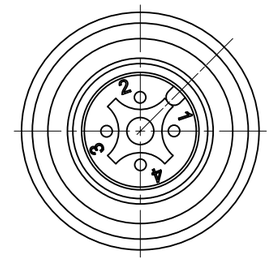


VIEW FROM THE FRONT SIDE



VIEW FROM THE FRONT SIDE

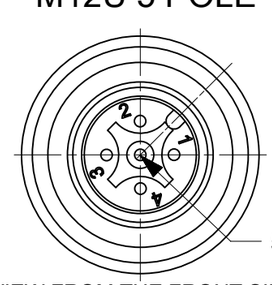
MALE
M12U 4 POLE



VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BN
2	WH
3	BU
4	BK

M12U 5 POLE



VIEW FROM THE FRONT SIDE

PIN	WIRE COLOR
1	BN
2	WH
3	BU
4	BK
5	GY

CABLE LIST

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS
E03	5	0.34mm²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.
P03	4	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.

BOM

ITEM	QTY	DESCRIPTION	MATERIAL	COLOR/FINISH
9	1	LABEL	VINYL	YELLOW
8	1	COUPLING NUT	BRASS	Ni-PLATED
7	1	GASKET	FPM	RED
6	4/5	FEMALE CONTACT	BRASS	Au OVER Ni-PLATED
5	1	INSERT FEMALE 4/5 POLE	TPU	BLACK
4	4/5	MALE CONTACT	BRASS	Au OVER Ni-PLATED
3	1	ULTRALOCK MALE 4/5 POLE ASSEMBLY	-	-
2	-	OVERMOULD	TPU	BLACK
1	-	CABLE	PVC/PUR	BLACK

PART LIST

MOLEX P/N	ENG No.	L+Tol.[mm]
1200808006	8W4031P03M050	5000+165
1200808010	8W4031P03M020	2000+56
1200808013	8W4031P03M030	3000+89
1200808014	8W4031P03M040	4000+165
1200808022	8W4031P03M006	600+45
1200808152	8W4031P03M010	1000+56

NOTES:

CURRENT RATING: 4-5 CONTACTS 4A
VOLTAGE RATING: 4 CONTACTS 250V
5 CONTACTS 60V
PROTECTION CLASS: IP 67/68/69K
TEMPERATURE: -25°C / +85°C

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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: REMOVED OBSOLETED PART NUMBERS AS PER PCN#516701

EC NO: 828172
DRWN: RAGHAH3 2025/07/14
CHK'D: GGA 2025/07/24
APPR: GGA 2025/07/24

INITIAL REVISION:
DRWN: SSM 2022/03/22
APPR: RSILLER 2022/04/22

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120080

molex

UL.M12-5P-FE/M-90/ST-XM-PVC

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200808007	PSD	000	A1

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

DOCUMENT STATUS	P1	RELEASE DATE	2025/07/24 04:50:48

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