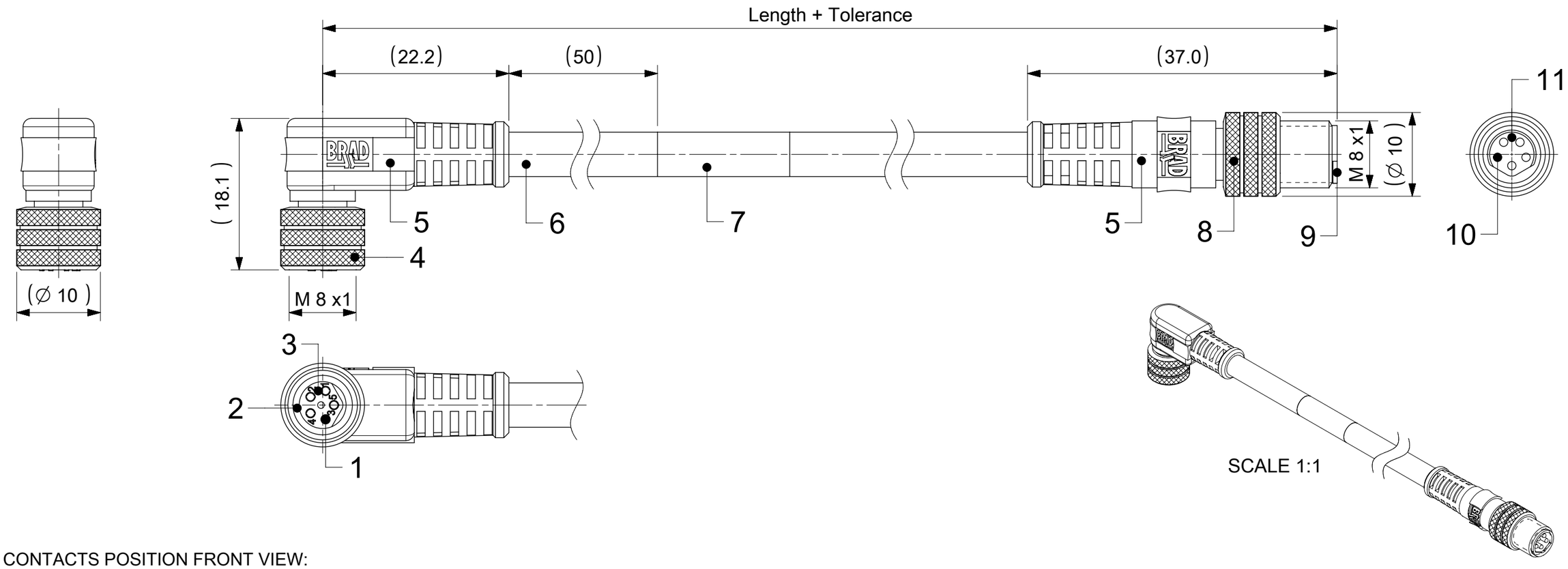
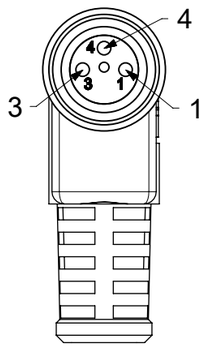
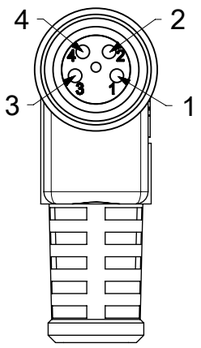
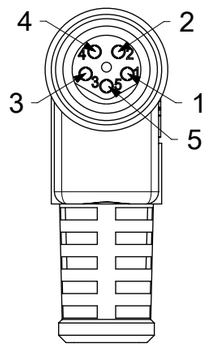
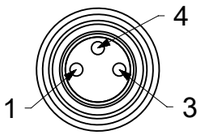
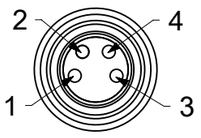
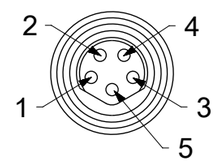
FEMALE PLUG M8 90° ANGLED TO MALE PLUG M8 STRAIGHT



SCALE 1:1

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS	4 CONTACTS	5 CONTACTS
FEMALE			
MALE			

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

CODING ACCORDING TO IEC 61076-2-104

NOTES:

RATED VOLTAGE: 3 contacts 60V AC/DC
4 and 5 contacts 30V AC/DC
CURRENT RATING: 3, 4, 5 contacts 3A
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +80°C
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
11	1	INSERT MALE BLACK	TPU	---
10	3 / 4 / 5	CONTACT M8 MALE	BRASS	SELECTIVE Au OVER Ni
9	1	SLEEVE	BRASS	NICKEL
8	1	COUPLING NUT M8 MALE	BRASS	NICKEL
7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES Ixx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	TPU	---
4	1	COUPLING NUT M8 FEMALE	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	TPU	---
2	1	O-RING RED	FKM	---
1	3 / 4 / 5	CONTACT M8 FEMALE	BRASS	SELECTIVE Au OVER Ni

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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#517104

EC NO: 836952
DRWN: SAMPRS 2025/10/11
CHK'D: GGA 2025/10/16
APPR: GGA 2025/10/16

INITIAL REVISION:
DRWN: JMARSZALEK 2016/10/20
APPR: RSILLER 2017/01/11

THIRD ANGLE PROJECTION | DRAWING: A3-SIZE | SERIES: 120087

molex

CSE M8 M8 XP AC BC FE RA MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200878243	PSD	000	A6

MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
SEE PART LIST	GENERAL MARKET	1 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/16 19:09:05

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

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

4	4	X	0	3	1	X	X	X	X	X	X	X	X

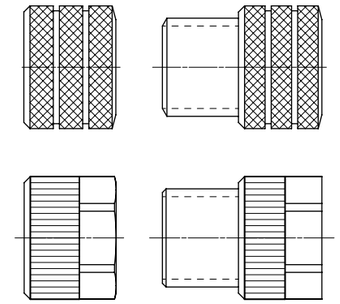
- 44=Nano-Change M8x1 Double ended
- Contacts: 3=3 Contacts 4=4 Contacts 5=5 Contacts
- Heads style: 031=Plug Female 90° to Plug Male Straight
- Cable type: See Table
- Units: M=Meter
- Length Examples: 005=0.5 unit 010=1 unit 100=10 unit
- Overmold color: Blank (Standard)=Black A=Grey / G=Black / Y=Yellow

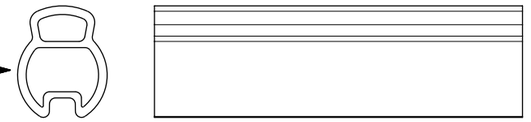
  Coupling Nut: Blank (Standard)=Knurled Brass Ni Plated 9=Knurled / Hexagonal SW9 Brass Ni Plated

  H= 2 pcs. of I/D Carrier PVC Transparent (Cables Ixx & P82 always with 2 pcs. of I/D Carrier)

COUPLING NUT

FEMALE MALE





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	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.	-	-
H08	3 / 4 / 5	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	-
I02	3 / 4	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
P02	3 / 4 / 5	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
P82	3	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.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

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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

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INITIAL REVISION:

DRWN: JMARSZALEK 2016/10/20

APPR: RSILLER 2017/01/11

molex

CSE M8 M8 XP AC BC FE RA MA STR XM

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
1200878243	PSD	000	A6

THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
	A3-SIZE	120087	SEE PART LIST	GENERAL MARKET	2 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/16 19:09:05

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

PART LIST

No.	Molex PN	Engineering No.	Cable Length
1	1200280016	443031E02M010	1m
4	1200281283	443031E02M005	0.5m
5	1200875016	443031E02M006	0.6m
6	1200878128	443031H08M020	2m
7	1200878129	443031H08M030	3m
8	1200878130	443031H08M050	5m
9	1200878196	444031H08M010	1m
10	1200878197	444031P02M020	2m
11	1200878242	445031E02M006	0.6m
12	1200878243	445031E02M030	3m
13	1200878244	445031E02M050	5m
14	1200878254	444031P02M050	5m
15	1200878303	443031E02M003	0.3m
16	1200878304	443031E02M015	1.5m
17	1200878305	443031E02M020	2m
18	1200878306	443031E02M030	3m
19	1200878307	443031E02M035	3.5m
20	1200878308	443031E02M050	5m
21	1200878309	443031I02M006	0.6m
22	1200878310	443031I02M010	1m
23	1200878311	443031I02M015	1.5m
24	1200878312	443031I02M020	2m
25	1200878313	443031I02M030	3m
26	1200878314	443031P02M003	0.3m
27	1200878315	443031P02M006	0.6m
28	1200878316	443031P02M010	1m
29	1200878317	443031P02M020	2m
30	1200878318	443031P02M030	3m
31	1200878319	443031P02M050	5m
32	1200878363	444031E02M003	0.3m
33	1200878364	444031E02M006	0.6m
34	1200878365	444031E02M010	1m
35	1200878366	444031E02M020	2m

No.	Molex PN	Engineering No.	Cable Length
36	1200878367	444031E02M030	3m
37	1200878368	444031E02M050	5m
38	1200878369	444031E02M100	10m
39	1200878370	444031P02M003	0.3m
40	1200878371	444031P02M006	0.6m
41	1200878372	444031P02M010	1m
42	1200878373	444031P02M030	3m
43	1200878499	443031H08M010	1m
44	1200878542	443031E02M015Y	1.5m
45	1200878554	444031H08M006	0.6m
46	1200878555	444031H08M020	2m
47	1200878556	444031H08M050	5m
48	1200878557	443031H08M006	0.6m
49	1200878595	443031P02M010H	1m
51	1200878637	443031E02M002	0.2m
52	1200878638	443031E02M025	2.5m
53	1200878639	443031E02M065	6.5m
54	1200878659	443031E02M010H	1m
55	1200878660	443031E02M005H	0.5m
56	1200878664	443031E02M020H	2m
57	1200878667	444031E02M003H	0.3m
58	1200878672	443031E02M002H	0.2m
59	1200878673	443031E02M025H	2.5m
60	1200878674	443031E02M065H	6.5m
61	1200878690	443031E02M015H	1.5m
62	1200878942	445031H08M006	0.6m
63	1200878943	445031H08M010	1m
64	1200878944	445031H08M020	2m
65	1200878945	445031H08M050	5m
66	1200878948	445031E02M010	1m
67	1200878949	445031E02M020	2m
68	1200280400	444031P02M020	2m
69	1200878979	444031H08M030	3m
70	1200878981	445031H08M030	3m

No.	Molex PN	Engineering No.	Cable Length
71			
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No.	Molex PN	Engineering No.	Cable Length
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mm	1:1

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	A3-SIZE	120087	SEE PART LIST	GENERAL MARKET	3 OF 3

DOCUMENT STATUS	P1	RELEASE DATE	2025/10/16 19:09:05

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