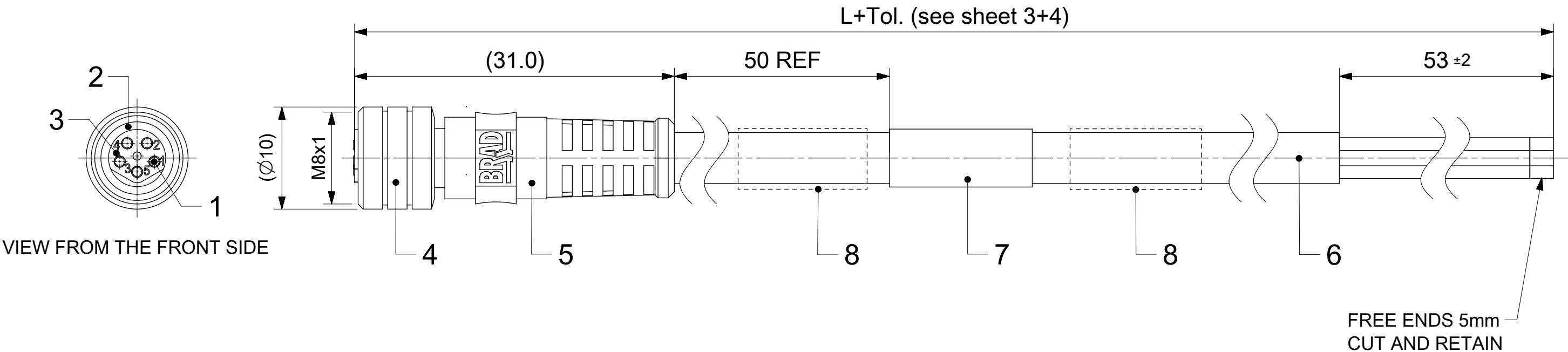


FEMALE PLUG M8 STRAIGHT

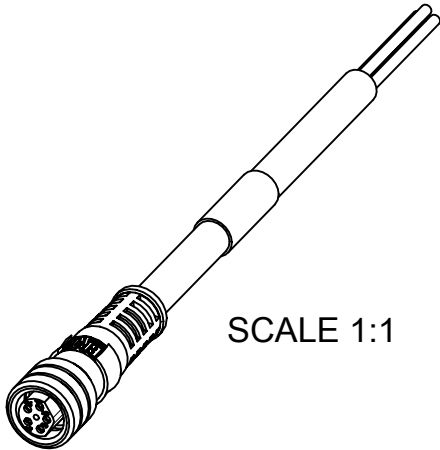


NOTES:
RATED VOLTAGE: 3 contacts 60V AC/DC
4 and 5 contacts 30V AC/DC
CURRENT RATING: 3, 4, 5 contacts 3A
PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +80°C

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

8	2	I/D CARRIER (SEE MATRIX)	---	---
7	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES Ixx	---	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING	TPU	SEE SHEET 2
4	1	COUPLING NUT M8 FEMALE	BRASS	SEE SHEET 2
3	1	INSERT FEMALE BLACK	TPU	---
2	1	O-RING RED	FKM	---
1	3 / 4 / 5	CONTACT M8 FEMALE	COPPER	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

		3 CONTACTS		4 CONTACTS		5 CONTACTS	
FEMALE	CONTACTS POSITION FRONT VIEW:						
		PIN	WIRE	PIN	WIRE	PIN	WIRE
		1	BROWN	1	BROWN	1	BROWN
		3	BLUE	2	WHITE	2	WHITE
		4	BLACK	3	BLUE	3	BLUE
CONNECTIONS				4	BLACK	4	BLACK
						5	GREY
		CODING ACCORDING TO IEC 61076-2-104					



FUNCTIONAL SYMBOLS FA = 0 FE = 0 FF = 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		CURRENT REV DESC: MATRIX UPDATED			molex					
	mm		2:1										
	GENERAL TOLERANCES (UNLESS SPECIFIED)				M8 SINGLE ENDED FEMALE STRAIGHT								
	ANGULAR TOL ± °												
	4 PLACES		±					PRODUCT CUSTOMER DRAWING					
	3 PLACES		±										
	2 PLACES		±										
	1 PLACE		±										
	0 PLACES		±		DOCUMENT NUMBER			DOC TYPE		DOC PART	REVISION		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE	120086	SEE SHEET 3-4		GENERAL MARKET		1 OF 4	
				EC NO: 670691									
				DRWN: RSCHIEBER		2021/07/19							
				CHK'D: RSILLER		2021/07/19							
				APPR: RSILLER		2021/07/19							
				INITIAL REVISION:									
				DRWN: AKONDRACIUK		2017/02/16							
				APPR: MIWASIECZKO		2017/11/16							

DOCUMENT STATUS	P1	RELEASE DATE	2021/07/19	14:40:35
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ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

4

0

X

0

0

0

X

X

X

X

X

X

X

X

40=Nano-Change
M8x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

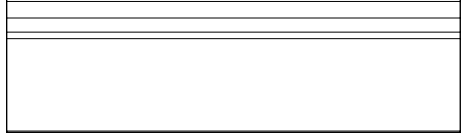
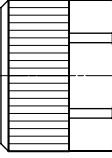
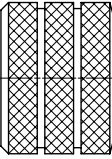
Length
Examples:
005=0.5 unit
010=1 unit
100=10 unit

Overmold color:
Blank (Standard) = Black
A = Grey / G = Black / Y = Yellow
For cables K03, K05, A09, S19,
S20, S26 & A10 = Yellow

Coupling Nut material:
Blank = Standard
1 = Stainless steel
2 = Nylon
3 = Nickel plated Brass
4 = Valox (polyester)
5 = Delrin
6 = clear anodized alum.
7 = Teflon coat
Blank = 7 for cables: I20, I26, K03, K05, P82, S26
8 = Type 316 stainless steel
9 = Knurled / Hexagonal SW9 Brass Ni Plated

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

COUPLING NUT
FEMALE



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.	-	-
E18	3 / 4	0.20mm²	PVC YELLOW	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E51	4	0.25mm²	PVC GREY	-	-	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E54	3	0.25mm²	PVC GREY	-	-	-25°C to +70°C	-5°C to +70°C	-	-
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	-
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	-
H69	4	0.20mm²	PUR GRAY LS0H	-	-	-	-	-	-
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.	-	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
P18	4	0.20mm²	PUR YELLOW	-	-	-	-	-	-
P82	3	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
L03	3	0.34mm²	Blend PUR ORANGE	-	-	-30°C to +90°C	-5°C to +90°C	-	-
A10	3 / 4 / 5	0.25mm²	PVC YELLOW	UL 2661	I/II A/B 105°C/300V	-	-	-	-

FUNCTIONAL SYMBOLS
FA= 0
FE= 0
FE= 0
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: MATRIX UPDATED

EC NO: 670691
DRWN: RSCHIEBER 2021/07/19
CHK'D: RSILLER 2021/07/19
APPR: RSILLER 2021/07/19

INITIAL REVISION:
DRWN: AKONDRACIUK 2017/02/16
APPR: MIWASIECZKO 2017/11/16

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS
THIRD ANGLE PROJECTION
DRAWING A3-SIZE
SERIES 120086
MATERIAL NUMBER SEE SHEET 3-4
CUSTOMER GENERAL MARKET
SHEET NUMBER 2 OF 4

molex

M8 SINGLE ENDED FEMALE STRAIGHT

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER 1200860594
DOC TYPE PSD
DOC PART 000
REVISION A8

DOCUMENT STATUS P1 RELEASE DATE 2021/07/19 14:40:35

F

Pos.	Part. No	Engineering No.	Cable Length
1	1200270066	403000E02M020	2m
2	1200270067	403000E02M030	3m
3	1200270068	403000E02M050	5m
4	1200270070	403000E02M100	10m
5	1200270127	404000E02M020	2m
6	1200270129	404000E02M050	5m
7	1200270131	404000E02M100	10m
8	1200270132	404000E02M150	15m
9	1200270133	404000E02M200	20m
10	1200270400	403000E02M010	1m
11	1200270549	404000E02M010	1m
12	1200271410	403000E02M012	1.2m
13	1200271417	403000E02M006	0.6m
14	1200271418	403000E02M015	1.5m
15	1200271419	403000E02M025	2.5m
16	1200271423	404000E02M005	0.5m
17	1200865038	403000E02M250	25m
18	1200868015	403000E02M200	20m
19	1200868067	404000E02M050G	5m
20	1200868068	404000E02M100G	10m
21	1200868069	404000E02M200G	20m
22	1200868070	404000E02M300G	30m
23	1200868071	404000E02M400G	40m
24	1200868072	404000E02M500G	50m
25	1200868073	404000E02M700G	70m
26	1200868074	404000E02M1K0G	100m
27	1200868075	404000E02M020G	2m
28	1200868090	403000E02M150	15m
29	1200868099	405000E02M020	2m
30	1200868109	403000E02M100G	10m
31	1200868114	404000E02M030	3m
32	1200868151	405000E02M040	4m
33	1200868171	405000E02M050	5m
34	1200868172	405000E02M100	10m
35	1200868262	403000E02M002	0.2m

Pos.	Part. No	Engineering No.	Cable Length
36	1200868263	403000E02M003	0.3m
37	1200868264	403000E02M020H	2m
38	1200868265	403000E02M035	3.5m
39	1200868266	403000E02M045	4.5m
40	1200868267	403000E02M0501	5m
41	1200868268	403000E02M060	6m
42	1200868339	404000E02C200	2m
43	1200868340	404000E02M015	1.5m
44	1200868341	404000E02M0201	2m
45	1200868342	404000E02M040	4m
46	1200868343	404000E02M0501	5m
47	1200868344	404000E02M080	8m
48	1200868345	404000E02M110	11m
49	1200868346	404000E02M170	17m
50	1200868347	404000E02M210	21m
51	1200868348	404000E02M250	25m
52	1200868423	403000E02M1001	10m
53	1200868442	403000E02M020Y	2m
54	1200868443	403000E02M050Y	5m
55	1200868444	403000E02M100Y	10m
56	1200868452	404000E02M050Y	5m
57	1200868453	404000E02M100Y	10m
58	1200868454	404000E02M150Y	15m
59	1200868467	403000E02M150Y	15m
60	1200868473	404000E02M1001	10m
61	1200868508	404000E02M050H	5m
62	1200868509	404000E02M100H	10m
63	1200868510	404000E02M150H	15m
64	1200868511	404000E02M030H	3m
65	1200868518	404000E02C230	2.3m
66	1200868571	405000E02M120	12m
67	1200868572	405000E02M030	3m
68	1200868685	403000E02M050H	5m
69	1200868696	404000E02M0509H	5m
70	1200868697	404000E02M1009H	10m

Pos.	Part. No	Engineering No.	Cable Length
71	1200868698	404000E02M1509H	15m
72	1200868774	404000E02M060	6m
73	1200868776	404000E02M070	7m
74	1200271409	403000H08M010	1m
75	1200271442	403000H08M020G	2m
76	1200868045	403000H08M020	2m
77	1200868053	404000H08M050	5m
78	1200868060	404000H08M030	3m
79	1200868101	403000H08M050	5m
80	1200868115	403000H08M100	10m
81	1200868116	403000H08M200	20m
82	1200868117	404000H08M100	10m
83	1200868118	404000H08M200	20m
84	1200868122	403000H08M030	3m
85	1200868162	404000H08M040	4m
86	1200868207	404000H08M020	2m
87	1200868209	403000H08M015	1.5m
88	1200868214	403000H08M005	0.5m
89	1200868215	404000H08M005	0.5m
90	1200868395	405000H08M020	2m
91	1200868404	405000H08M050	5m
92	1200868405	405000H08M100	10m
93	1200868468	403000H08M050Y	5m
94	1200868469	403000H08M100Y	10m
95	1200868487	404000H08M010	1m
96	1200868596	403000H08M010Y	1m
97	1200868476	403000H09M020	2m
98	1200860468	403000P03M050GQ	5m
99	1200868030	404000P03M200G	20m
100	1200270709	405000P02M020	2m
101	1200270854	405000P02M075G	7.5m
102	1200860475	405000P02M050	5m
103	1200860594	405000P02M100	10m
104	1200868001	403000P02M020	2m
105	1200868002	403000P02M050	5m

Pos.	Part. No	Engineering No.	Cable Length
106	1200868003	403000P02M100	10m
107	1200868148	405000P02M005	0.5m
108	1200868156	404000P02M020	2m
109	1200868157	404000P02M050	5m
110	1200868158	404000P02M100	10m
111	1200868274	403000P02C350	3.5m
112	1200868275	403000P02M002	0.2m
113	1200868276	403000P02M002G	0.2m
114	1200868277	403000P02M003	0.3m
115	1200868278	403000P02M003G	0.3m
116	1200868279	403000P02M005	0.5m
117	1200868280	403000P02M006	0.6m
118	1200868281	403000P02M010	1m
119	1200868282	403000P02M012	1.2m
120	1200868283	403000P02M018	1.8m
121	1200868284	403000P02M022	2.2m
122	1200868285	403000P02M030	3m
123	1200868286	403000P02M032	3.2m
124	1200868287	403000P02M035	3.5m
125	1200868288	403000P02M040	4m
126	1200868289	403000P02M050G	5m
127	1200868290	403000P02M055	5.5m
128	1200868291	403000P02M080	8m
129	1200868292	403000P02M150	15m
130	1200868351	404000P02M003	0.3m
131	1200868352	404000P02M030	3m
132	1200868353	404000P02M040	4m
133	1200868354	404000P02M070	7m
134	1200868355	404000P02M500	50m
135	1200868517	403000P02M200	20m
136	1200868530	404000P02M010	1m
137	1200868627	405000P02M050Y	5m
138	1200868773	404000P02M060	6m
139	1200868775	404000P02M200	20m
140	1200270637	403000E52M050G	5m

F

E

D

C

B

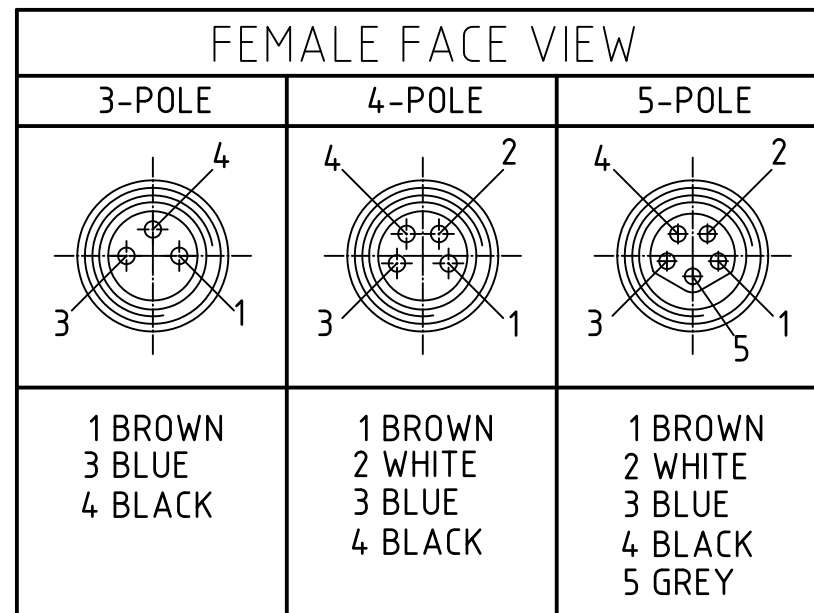
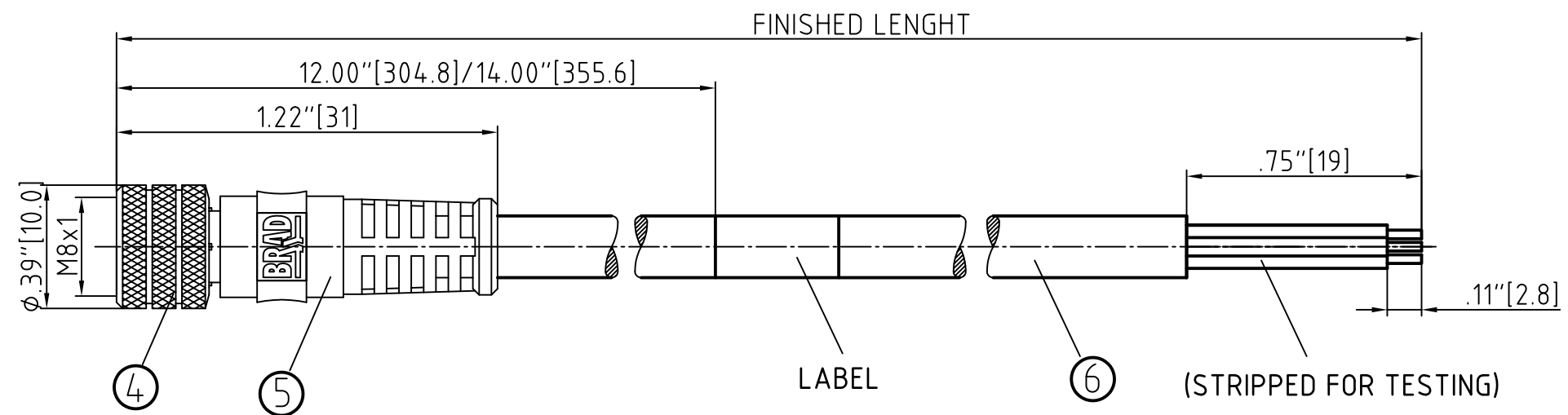
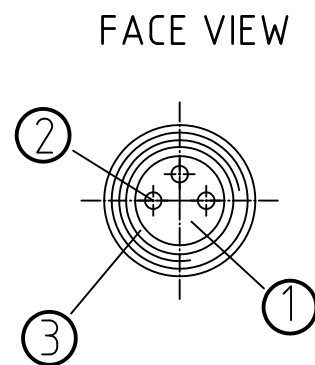
A

CABLE LENGTH TOLERANCES		
OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF FINISHED LENGTH

DOCUMENT STATUS	P1	RELEASE DATE	2021/07/19	14:40:35
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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: MATRIX UPDATED			molex							
	mm		2:1												
	$\frac{F}{A} = 0$		GENERAL TOLERANCES (UNLESS SPECIFIED)			M8 SINGLE ENDED FEMALE STRAIGHT									
$\frac{F}{E} = 0$		ANGULAR TOL ± °													
$\frac{F}{P} = 0$															
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 670691			PRODUCT CUSTOMER DRAWING							
	3 PLACES		±		DRWN: RSCHIEBER 2021/07/19										
	2 PLACES		±		CHK'D: RSILLER 2021/07/19										
	1 PLACE		±		APPR: RSILLER 2021/07/19										
	0 PLACES		±		INITIAL REVISION:			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION			
					DRWN: AKONDRACIUK 2017/02/16			1200860594		PSD	000	A8			
				APPR: MIWASIECZKO 2017/11/16											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		120086		SEE SHEET 3-4		GENERAL MARKET		3 OF 4	

10	9	8	7	6	5	4	3	2	1										
PART LIST																			
Pos.	Part. No	Engineering No	Cable Length	Pos.	Part. No	Engineering No	Cable Length	Pos.	Part. No	Engineering No	Cable Length								
141	1200860340	403000K05M050	5m	176	1200271180	403000P82M020	2m	211	1200868029	404000E18M030	3m								
142	1200868431	403000K05M150	15m	177	1200271305	404000P82M050	5m	212	1200270078	403000E54M050A	5m								
143	1200270642	403000L03M005A	0.5m	178	1200271450	404000P82M0507	5m	213	1200868018	403000E54M030A	3m								
144	1200270080	403000I02M003	0.3m	179	1200868183	403000P82M0507	5m	214	1200270143	404000E51M020A	2m								
145	1200270081	403000I02M020	2m	180	1200868192	403000P82M0207	2m	215	1200270145	404000E51M050A	5m								
146	1200270082	403000I02M030	3m	181	1200868212	403000P82M005	0.5m	216	1200860667	405000P02M200	20m								
147	1200270083	403000I02M050	5m	182	1200868213	404000P82M005	0.5m	217	1200868849	405000H08M010	1m								
148	1200270084	403000I02M100	10m	183	1200868232	404000P82M010	1m	218	1200868857	405000E02M010	1m								
149	1200270148	404000I02M020	2m	184	1200868233	403000P82M010	1m	219	1200868934	404000H08M050H	5m								
150	1200270149	404000I02M050	5m	185	1200868420	403000P82M1007	10m	220											
151	1200270360	404000I02M100	10m	186	1200868461	404000P82M0207Y	2m	221											
152	1200860041	404000I02M030	3m	187	1200868470	403000P82M0207Y	2m	222											
153	1200868269	403000I02M005	0.5m	188	1200868481	404000P82M010Y	1m	223											
154	1200868270	403000I02M006	0.6m	189	1200868482	403000P82M010Y	1m	224											
155	1200868271	403000I02M010	1m	190	1200868567	404000P82M0307Y	3m	225											
156	1200868272	403000I02M025	2.5m	191	1200868602	404000P82M050Y	5m	226											
157	1200868273	403000I02M150	15m	192	1200270341	404000P18M050	5m	227											
158	1200868349	404000I02M003	0.3m	193	1200270346	404000P18M100	10m	228											
159	1200868350	404000I02M050G	5m	194	1200270863	404000P18M005	0.5m	229											
160	1200868445	403000I02M030Y	3m	195	1200271449	403000P18M070	7m	230											
161	1200868446	403000I02M050Y	5m	196	1200860101	403000A10M015	1.5m	231											
162	1200868447	403000I02M100Y	10m	197	1200860102	403000A10M020	2m	232											
163	1200868455	404000I02M020Y	2m	198	1200860107	403000A10M050	5m	233											
164	1200868456	404000I02M050Y	5m	199	1200860111	403000A10M100	10m	234											
165	1200868460	404000I02M100Y	10m	200	1200860112	403000A10M150	15m	235											
166	1200868507	403000I02M020Y	2m	201	1200860144	404000A10M020	2m	236											
167	1200868566	404000I02M030Y	3m	202	1200860145	404000A10M030	3m	237											
168	1200270147	404000H69M020	2m	203	1200860147	404000A10M050	5m	238											
169	1200868100	404000H69M100	10m	204	1200860155	404000A10M100	10m	239											
170	1200868184	404000H69M010	1m	205	1200860191	405000A10M020	2m	240											
171	1200270445	404000H69M050	5m	206	1200270140	404000E18M050	5m	241											
172	1200271440	403000H69M050	5m	207	1200270581	403000E18M020	2m	242											
173	1200271441	403000H69M020	2m	208	1200270606	403000E18M100	10m	243											
174	1200270032	403000P82M050	5m	209	1200868017	403000E18M050	5m	244											
175	1200271042	404000P82M0207	2m	210	1200868028	404000E18M020	2m	245											
</																			



POLE	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGHT IN/MM
3	1200860336	403000B09M020	6.56' +3.50" -0 [2.0M +88.9 -0]
3	1200860115	403000B09M050	16.40' +6.50" -0 [5.0M +165.1 -0]
3	1200860016	403000B09M100	32.81' +12.50" -0 [10.0M +317.5 -0]
4	1200860171	404000B09M020	6.56' +3.50" -0 [2.0M +88.9 -0]
4	1200860173	404000B09M050	16.40' +6.50" -0 [5.0M +165.1 -0]
4	1200860040	404000B09M100	32.81' +12.50" -0 [10.0M +317.5 -0]
5	1200860196	405000B09M020	6.56' +3.50" -0 [2.0M +88.9 -0]
5	1200860197	405000B09M050	16.40' +6.50" -0 [5.0M +165.1 -0]

CONNECTOR SPECIFICATION:	
VOLTAGE RATING	3-4POL:60V/AC 75V/DC 5-POL: 30V/AC 36V/DC
AMPERAGE RATING	3 AMPS
PROTECTION	IP68
OPERATING TEMPERATURE	-25°C TO 80°C
UL CERTIFICATIONS	UL listed, File #E152210
CSA CERTIFICATIONS	CSA CERTIFIED, File LR6837

ITEM	COMPONENT	MATERIAL	FINISH
1	INSERT	POLYURETHANE (PUR)	BLACK
2	CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
3	O-RING	VITON	RED
4	COUPLING NUT	BRASS	NICKEL PLATED
5	OVERMOLD	TPE	YELLOW
6	CABLE- 24 AWG, (COPPER STRANDING) 3/4/5 CONDUCT. 300V	JACKET: PUR	YELLOW

DESCRIPTION EC NO.: WEU2010-0250 DRWN.: REISSNER CHKD.: FP APPR.: NSTAUDIG 22.12.09 2008/10/02 2010/01/26	DESCRIPTION 1	REV	QUALITY SYMBOLS ▽ = 0 ⊂ = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 2:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION		
					mm	INCH	DRAWN BY RE		DATE 2009/12/22	NC 3/4/5P FE STR 24AWG PUR ----			
				4 PLACES	±---	±---	CHECKED BY FP		DATE 2010/01/20				
				3 PLACES	±---	±---	APPROVED BY NSTAUDIG		DATE 2010/01/25				
				2 PLACES	±----	±.01			 MOLEX INCORPORATED				
				1 PLACE	±0.3	±---							
				ANGULAR ± --- °									
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO.		DOCUMENT NO.		SHEET NO.		
							SEE TABLE		SD-120086-017		1		
							SIZE A3	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION					