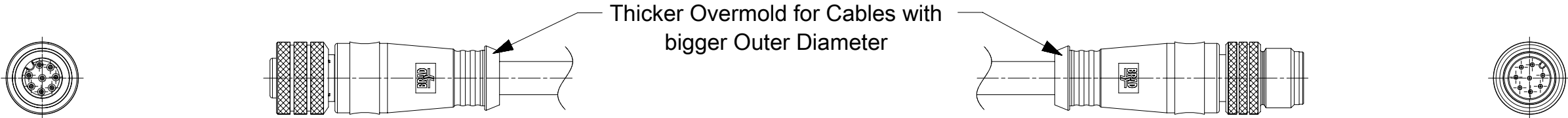
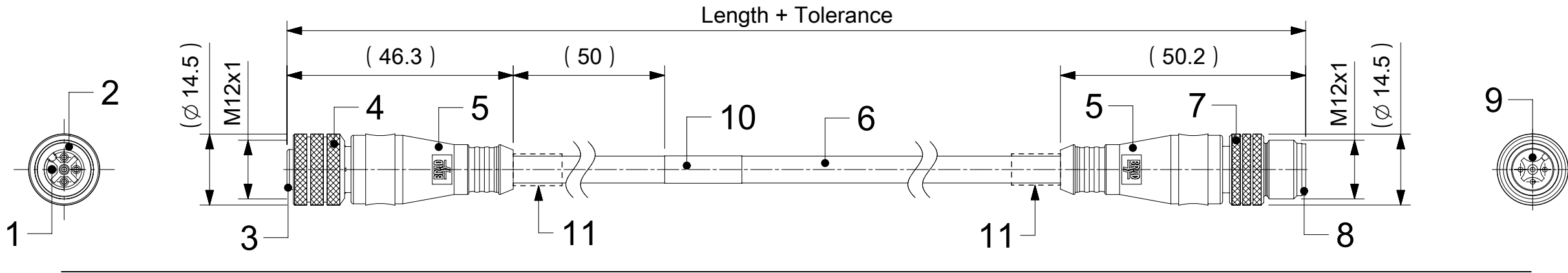


FEMALE PLUG M12 STRAIGHT TO MALE PLUG M12 STRAIGHT



NOTES:

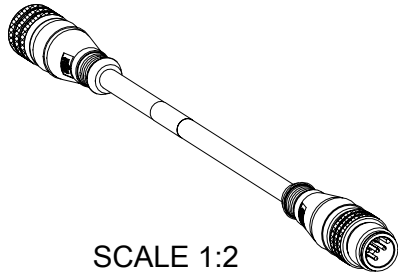
RATED VOLTAGE: 3, 4 contacts 250V per IEC 60664
5 contacts 60V per IEC 60664
5 contacts 250V per UL 2238
8 contacts 30V per IEC 60664

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

PROTECTION CLASS: IP 67
TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
FEMALE								
MALE								
CONNECTIONS	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	4	BLACK	4	BLACK	4	YELLOW
					5	GREY	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								



FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE SHEET 2	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	-
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
8	1	INSERT MALE BLACK	TPU	-
7	1	COUPLING NUT MALE	-	-
6	-	CABLE	SEE SHEET 2	-
5	-	OVERMOULDING BLACK	TPU	-
4	1	COUPLING NUT FEMALE	-	-
3	1	INSERT FEMALE BLACK	PUR	-
2	1	O-RING RED	FPM	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

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: OBSOLETE PART NUMBERS AS PER PCN#506884				molex							
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 XP AC FE STR MA STR XM DE											
ANGULAR TOL ± 1.0 °															
4 PLACES		±		EC NO: 662770				PRODUCT CUSTOMER DRAWING							
3 PLACES		±		DRWN: SUGEEB 2021/03/30											
2 PLACES		± 0.05		CHK'D: GGA 2021/06/02											
1 PLACE		± 0.3		APPR: GGA 2021/06/02				DOCUMENT NUMBER 1200668084		DOC TYPE PSD	DOC PART 000	REVISION A13			
0 PLACES		± 0.5		INITIAL REVISION: DRWN: JMARSZALEK 2016/09/16 APPR: RSILLER 2016/12/08											
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		120066		SEE SHEET 3-4		GENERAL MARKET		1 OF 4	

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

OPTIONS

88X030XXX

88=Micro-Change
M12x1
Double ended

Contacts:
3=3 Contacts
4=4 Contacts
5=5 Contacts
8=8 Contacts

Heads style:
030=Plug Female Straight
to Plug Male Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

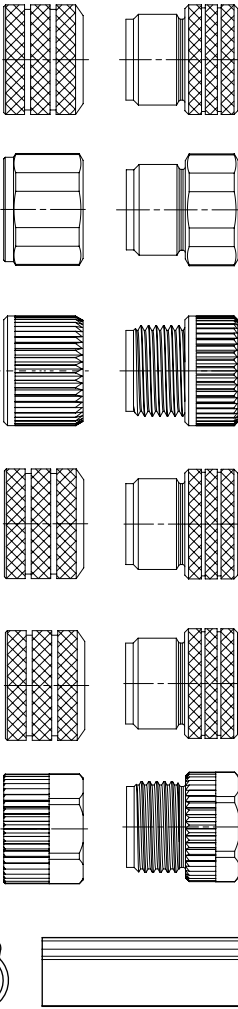
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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
8=Type 316 stainless steel
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent

COUPLING NUTS
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 / 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 [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

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: OBSOLETE PART NUMBERS AS PER PCN#506884

EC NO: 662770
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2021/03/30
2021/06/02
2021/06/02
2016/09/16
2016/12/08

PRODUCT CUSTOMER DRAWING

DOCUMENT NUMBER
1200668084

DOC TYPE
PSD

DOC PART
000

REVISION
A13

SHEET NUMBER
2 OF 4

PART LIST

No.	MOLEX PN	Engineering No.	Length
1	1200060049	884030E03M050	5m
2	1200060050	884030P03M015	1.5m
3	1200060051	884030P03M030	3m
4	1200070081	883030E03M006	0.6m
5	1200070083	883030E03M010	1m
6	1200070085	883030E03M020	2m
7	1200070086	883030E03M0205	2m
8	1200070088	883030E03M030	3m
9	1200070091	883030E03M050	5m
10	1200070092	883030E03M0505	5m
11	1200070093	883030E03M100	10m
12	1200070102	883030P03M003	0.3m
13	1200070104	883030P03M006	0.6m
14	1200070105	883030P03M100	10m
15	1200070470	884030E03M003	0.3m
16	1200070472	884030E03M006	0.6m
17	1200070473	884030E03M010	1m
18	1200070474	884030E03M020	2m
19	1200070475	884030E03M030	3m
20	1200070476	884030E03M100	10m
21	1200070486	884030P03M003	0.3m
22	1200070487	884030P03M006	0.6m
23	1200070488	884030P03M010	1m
24	1200070489	884030P03M020	2m
25	1200070490	884030P03M050	5m
26	1200070586	885030E03M030	3m
27	1200070596	885030P03M020	2m
28	1200070906	885030E03M010	1m
29	1200070969	885030E03M050	5m
30	1200070970	885030E03M020	2m
31	1200071006	883030E03M020H	2m
32	1200071029	884030P03M100	10m
33	1200071047	883030P03M050H	5m
34	1200071049	885030P03M050	5m
35	1200071053	883030P03M150	15m

No.	MOLEX PN	Engineering No.	Length
36	1200071114	883030P03M020H	2m
37	1200071122	883030P03M030H	3m
38	1200071123	883030P03M010H	1m
39	1200071131	883030P03M0201	2m
40	1200071199	884030E03M200	20m
41	1200071273	883030P03M100H	10m
42	1200071284	885030P03M100	10m
43	1200071288	883030P03M060	6m
44	1200071408	885030P03M030	3m
45	1200071500	885030E03M005	0.5m
46	1200071583	885030E03M080	8m
47	1200071594	884030E03M015	1.5m
48	1200071596	884030E03M060	6m
49	1200071703	884030E03M0205	2m
50	1200071707	884030E03M0505	5m
51	1200071715	884030E03M150	15m
52	1200071774	884030E03M020H	2m
53	1200071793	884030E03M1501	✱15m
54	1200071881	884030E03M1005	10m
55	1200071947	885030P03M007	0.7m
56	1200071948	885030E03M040	4m
57	1200072010	884030P03M050H	5m
58	1200072081	885030E03M035	3.5m
59	1200072092	884030E03M040	4m
60	1200072104	883030P03M040	4m
61	1200072105	884030P03M200	20m
62	1200072172	884030E03M050H	5m
63	1200072544	884030E03M120	12m
64	1200072649	884030P03M0105	1m
65	1200072650	884030P03M0505	5m
66	1200072656	885030P03M120	12m
67	1200072658	883030P03M120	12m
68	1200072697	885030E03M060	6m
69	1200072744	884030E03M0501	✱ 5m
70	1200072762	884030P03M0101	1m

No.	MOLEX PN	Engineering No.	Length
71	1200072763	884030P03M0201	2m
72	1200072764	884030P03M0301	3m
73	1200072803	884030P03M040	4m
74	1200072804	884030P03M060	6m
75	1200073049	885030P03M0501	5m
76	1200073083	885030P03M006	0.6m
77	1200073084	885030P03M150	15m
78	1200660498	883030P03M010	1m
79	1200660500	883030P03M020	2m
80	1200660501	883030P03M030	3m
81	1200660502	883030P03M050	5m
82	1200660579	888030P02M010	1m
83	1200660580	888030P02M020	2m
84	1200660581	888030P02M030	3m
85	1200660582	888030P02M040	4m
86	1200660583	888030P02M050	5m
87	1200660584	888030P02M060	6m
88	1200660585	888030P02M100	10m
89	1200660586	888030P02M150	15m
90	1200661455	888030P02M005	0.5m
91	1200661605	888030P02M300	30m
92	1200665009	884030E03M005	0.5m
93	1200665031	884030P03M100H	10m
94	1200668062	884030E03M010H	1m
95	1200668084	885030P03M010	1m
96	1200668086	885030P03M0283	2.8m
97	1200668088	885030P03M070	7m
98	1200668163	885030P03M040	4m
99	1200668174	884030H09M030	3m
100	1200668234	884030H09M020	2m
101	1200668238	885030P03M200	20m
102	1200668244	884030H09M050	5m
103	1200668288	888030E02M025	2.5m
104	1200668327	888030P02M200	20m
105	1200668338	885030E03M006	0.6m

No.	MOLEX PN	Engineering No.	Length
106	1200668347	885030E03M100	10m
107	1200668352	888030P02M250	25m
108	1200668353	888030P02M350	35m
109	1200668354	888030P02M400	40m
110	1200668370	883030E03M040	4m
111	1200668373	883030H09M006	0.6m
112	1200668374	883030H09M010	1m
113	1200668375	883030H09M030	3m
114	1200668376	883030H09M040	4m
115	1200668377	883030H09M100	10m
116	1200668378	884030H09M006	0.6m
117	1200668379	884030H09M010	1m
118	1200668380	884030H09M040	4m
119	1200668381	884030H09M100	10m
120	1200668399	888030E02M003	0.3m
121	1200668486	884030H09M023	2.3m
122	1200668487	885030E03M200	20m
123	1200668491	888030H08M010	1m
124	1200668497	885030H09M010	1m
125	1200668500	885030H09M020	2m
126	1200668501	885030H09M050	5m
127	1200668502	885030H09M092	9.2m
128	1200668509	885030H09M006	0.6m
129	1200668510	885030H09M030	3m
130	1200668511	885030H09M100	10m
131	1200668521	885030E03M250	25m
132	1200668528	885030E03M020H	2m
133	1200668530	885030E03M010H	1m
134	1200668543	888030P02M450	45m
135	1200668544	888030P02M500	50m
136	1200668548	884030H09M006H	0.6m
137	1200668549	884030H09M010H	1m
138	1200668550	884030H09M050H	5m
139	1200668602	885030P03M020G	2m
140	1200668609	885030E02M050	5m

NOTES:
✱ - Part No. with Yellow PVC overmolding

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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: OBSOLETED PART NUMBERS
AS PER PCN#506884

EC NO: 662770
DRWN: SUGEEB
CHK'D: GGA
APPR: GGA

2021/03/30
2021/06/02
2021/06/02

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

2016/09/16
2016/12/08

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

A3-SIZE

120066

DOCUMENT NUMBER

1200668084

DOC TYPE

PSD

DOC PART

000

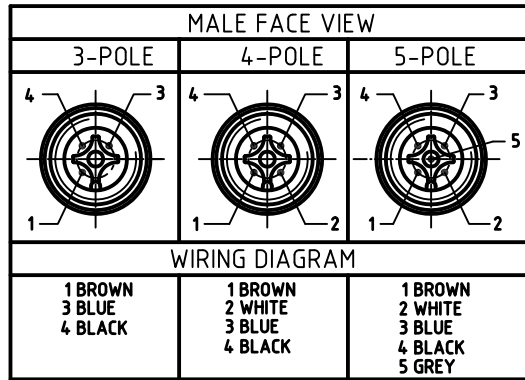
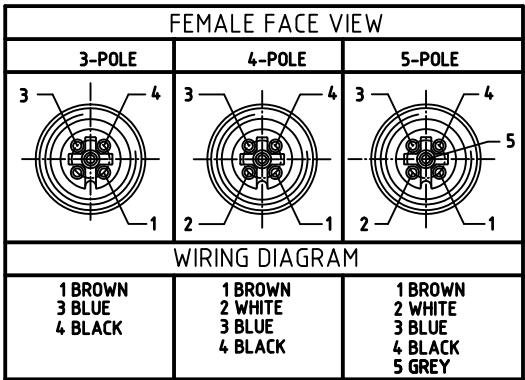
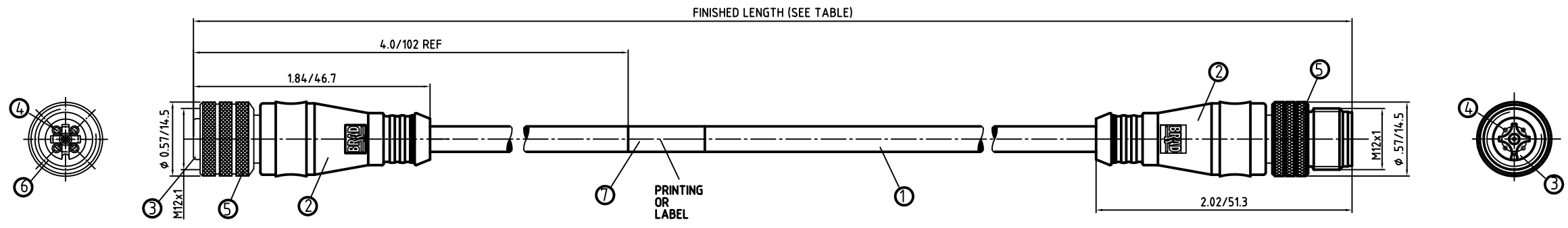
REVISION

A13

SEE PART LIST

GENERAL MARKET

3 OF 4



CONNECTOR SPECIFICATION:

VOLTAGE RATING	3+4P 250 VAC/VDC / 5P/60V
AMPERAGE RATING	max. 4 AMPS
PROTECTION	IP67
OPERATING TEMPERATURE	-20°C TO 80°C

ITEM	COMPONENT	MATERIAL	FINISH
7	LABLE	MYLAR	BLACK/YELLOW
6	O-RING	VITON	RED
5	COUPLER	BRASS	NICKEL PLATED
4	SOCKET/PIN CONTACT	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	PUR	BLACK
2	OVERMOLD	POLYURETHANE (PUR)	YELLOW
1	CABLE- 22/3-5 (COPPER STRANDING) 3/4/5 CONDUCT. 300V	JACKET: TPE/PVC (2 LAYER)	JACKET: BLACK

DESCRIPTION EC NO: WEU2010-0577 DRWN: LSTEMMLE CHKD: FP APPR: REISSNER 3	QUALITY SYMBOLS ▽ = 0 ▽C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED) <table><tr><td></td><td>mm</td><td>INCH</td></tr><tr><td>4 PLACES</td><td>±---</td><td>±---</td></tr><tr><td>3 PLACES</td><td>±---</td><td>±---</td></tr><tr><td>2 PLACES</td><td>±---</td><td>±.01</td></tr><tr><td>1 PLACE</td><td>±0.3</td><td>±---</td></tr><tr><td colspan="3">ANGULAR ± --- °</td></tr><tr><td colspan="3">DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS</td></tr></table>		mm	INCH	4 PLACES	±---	±---	3 PLACES	±---	±---	2 PLACES	±---	±.01	1 PLACE	±0.3	±---	ANGULAR ± --- °			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS METRIC	THIRD ANGLE PROJECTION
				mm	INCH																							
			4 PLACES	±---	±---																							
			3 PLACES	±---	±---																							
			2 PLACES	±---	±.01																							
			1 PLACE	±0.3	±---																							
			ANGULAR ± --- °																									
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS																									
			DRAWN BY LSTEMMLE		DATE 2010/02/03	MICRO-CHANGE CORDSET 3/4/5 P. FE STR/ MA STR 22/3-5 PUR/PVC BLACK CA.																						
			CHECKED BY RE		DATE 2010/06/08																							
APPROVED BY FPACHER		DATE 2010/02/15																										
MATERIAL NO. SEE TABLE SHEET 2		DOCUMENT NO. SD-120066-029		SHEET NO. 1 OF 2																								
SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																										

F

E

D

C

B

A

F

E

D

C

B

A

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
3	1200660498	883030P03M010	1.0M +55.6 -0 [3.27' +2.19" -0]

POL	MATERIAL NUMBER	ENGINEERING NUMBER	FINISHED LENGTH
5	1200668084	885030P03M010	1.0M +55.6 -0 [3.27' +2.19" -0]

DESCRIPTION EC NO: WEU2010-0577 02.06.10 DRWN: LSTEMMLE CHKD: FP APPR: REISSNER 2010/07/14	DESCRIPTION	QUALITY SYMBOLS ▽ = 0 ▽C = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE 1:1	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION
				mm	INCH	DRAWN BY LSTEMMLE	DATE 2010/02/03	MICRO-CHANGE CORDSET 3/4/5 P. FE STR/ MA STR 22/3-5 PUR/PVC BLACK CA.		
		4 PLACES	±---	±---	CHECKED BY	DATE 2010/06/08				
		3 PLACES	±---	±---	RE	DATE 2010/06/08				
		2 PLACES	±---	±.01	APPROVED BY	DATE	 MOLEX INCORPORATED			
		1 PLACE	±0.3	±---	FPACHER	2010/02/15		DOCUMENT NO. SD-120066-029	SHEET NO. 2 OF 2	
		ANGULAR ± --- °			MATERIAL NO. SEE TABLE					
		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			SIZE A3		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION			