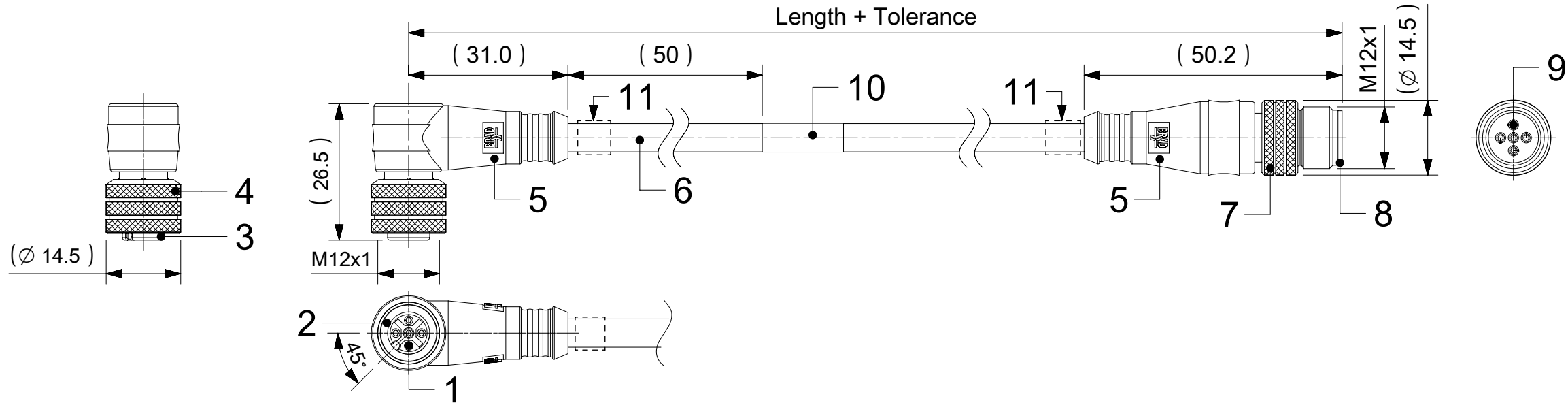


FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



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

* FOR CABLES lxx USE PRINTING ON THE CABLE IN THE SAME MEASUREMENT LIKE FOR LABEL – ENGINEERING No

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	---	5	---	5	GREY OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

11	SEE PART LIST	ID CARRIER	PVC	TRANSPARENT
10	1	LABEL YELLOW	VINYL	---
	-	PRINTING FOR CABLES lxx	---	---
9	3 / 4 / 5 / 8	CONTACT MALE	SEE PART LIST	SELECTIVE Au OVER Ni
8	1	INSERT MALE BLACK	SEE PART LIST	---
7	1	COUPLING NUT MALE	SEE PART LIST	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOULDING BLACK	SEE PART LIST	---
4	1	COUPLING NUT FEMALE	SEE PART LIST	---
3	1	INSERT FEMALE BLACK	SEE PART LIST	---
2	1	O-RING RED	FPM	---
1	3 / 4 / 5 / 8	CONTACT FEMALE	SEE PART LIST	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH
FUNCTIONAL SYMBOLS				
THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				
CURRENT REV DESC:				
DIVISIONAL SYMBOLS				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				
THIRD ANGLE PROJECTION				
DRAWING				
SERIES				
MATERIAL NUMBER				
CUSTOMER				
SHEET NUMBER				
EC NO: 684766				
DRWN: SSM				
CHK'D: RSILLER				
APPR: RSILLER				
INITIAL REVISION:				
DRWN: JMARSZALEK				
APPR: RSILLER				
DOCUMENT NUMBER				
DOC TYPE				
DOC PART				
REVISION				
1200660973				
PSD				
000				
A9				
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).

88X0X1XXXXXX

88=Micro-Change
M12x1
Double ended

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

Heads style:
031=Plug Female 90°
to Plug Male Straight
021=Plug Female 90°
to Plug Male Straight
with Female
Coupling Nut

Cable type: See Table

Units:
M=Meter
C=Centimeter

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

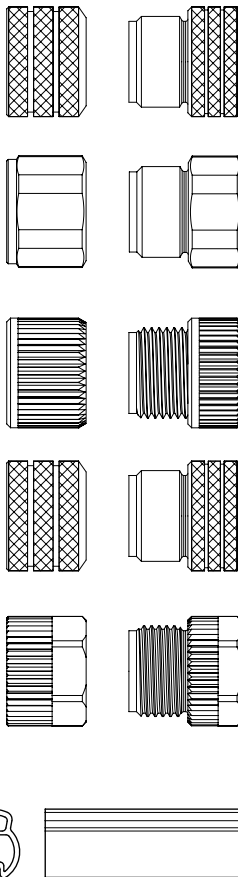
Options:

Overmold color:
Blank (Standard)=Black TPU
Blank=Yellow TPU for cables
A09, S19, S20, S26
Blank=Yellow TPE-E for cables
K03, K05
A=Grey / G=Black / Y=Yellow

Coupling Nut:
Blank (Standard)=Knurled Brass Ni Plated
1=Hexagonal Stainless steel
5=Knurled Derlin
7=Knurled Brass Ni Plated, Teflon Coated
Blank=7 for cables I20, I26, K03, K05, P82, S26
9=Knurled / Hexagonal Brass Ni Plated SW13

H= 2 pcs. of I/D Carrier PVC Transparent
(Cables Ixx & P82 always with 2 pcs. of
I/D Carrier even if no H in Engineering No.)

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
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I20	3 / 4	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
I26	5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
K03	4	18AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
K05	3 / 4 / 5	22AWG	TPE YELLOW	UL ITC or PLC	I/II A/B 90°C/300V	max 105°C	-	-	-
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
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.	-	-
H09	3 / 4 / 5	0.34mm²	PUR BLACK LSOH	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	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.D.	-	-
H08	8	0.25mm²	PUR BLACK LSOH	UL 21198/10493	UL 21198/10493	-40°C to +80°C, >5xO.D.	-25°C to +80°C, >10xO.D.	2 000 000 cycles, Temp max 60°C	-
P02	8	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, >7xO.D.	-5°C to +80°C, >15xO.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

FUNCTIONAL SYMBOLS

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

SCALE

1:1

GENERAL TOLERANCES (UNLESS SPECIFIED)

ANGULAR TOL ± 1.0 °

DIVISIONAL SYMBOLS

4 PLACES ±

3 PLACES ±

2 PLACES ± 0.05

1 PLACE ± 0.3

0 PLACES ± 0.5

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

CURRENT REV DESC:

EC NO: 684766
DRWN: SSM
CHK'D: RSILLER
APPR: RSILLER

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

DOCUMENT NUMBER
1200660973

DOC TYPE
PSD

DOC PART
000

REVISION
A9

GENERAL MARKET

2 OF 4

DOCUMENT STATUS | P1 | RELEASE DATE | 2021/11/10 | 13:49:49

FORMAT: master-b-prod-A3
REVISION: J
DATE: 2020/01/14

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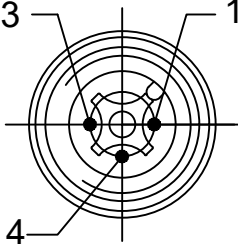
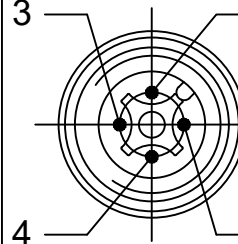
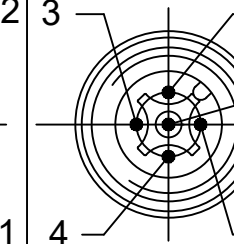
	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																																																																																																																																																
	PART LIST																																																																																																																																																																																																																																																																																																									
F	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>1</td><td>1200060052</td><td>884031I20M005</td><td>0.5m</td></tr> <tr><td>2</td><td>1200060053</td><td>884031I20M010</td><td>1m</td></tr> <tr><td>3</td><td>1200060054</td><td>884031I20M015</td><td>1.5m</td></tr> <tr><td>4</td><td>1200060055</td><td>884031I20M020</td><td>2m</td></tr> <tr><td>5</td><td>1200070132</td><td>883031I03M003</td><td>0.3m</td></tr> <tr><td>6</td><td>1200070133</td><td>883031I03M006</td><td>0.6m</td></tr> <tr><td>7</td><td>1200070134</td><td>883031I03M010</td><td>1m</td></tr> <tr><td>8</td><td>1200070136</td><td>883031I03M020</td><td>2m</td></tr> <tr><td>9</td><td>1200070137</td><td>883031I03M030</td><td>3m</td></tr> <tr><td>10</td><td>1200070138</td><td>883031I03M050</td><td>5m</td></tr> <tr><td>11</td><td>1200070152</td><td>883031S20M010</td><td>1m</td></tr> <tr><td>12</td><td>1200070153</td><td>883031S20M020</td><td>2m</td></tr> <tr><td>13</td><td>1200070156</td><td>883031S20M050</td><td>5m</td></tr> <tr><td>14</td><td>1200070522</td><td>884031I03M020</td><td>2m</td></tr> <tr><td>15</td><td>1200070523</td><td>884031I03M030</td><td>3m</td></tr> <tr><td>16</td><td>1200070534</td><td>884031S20M030</td><td>3m</td></tr> <tr><td>17</td><td>1200070651</td><td>884031I03M006</td><td>0.6m</td></tr> <tr><td>18</td><td>1200070768</td><td>884031S20M050</td><td>5m</td></tr> <tr><td>19</td><td>1200070783</td><td>884031S20M100H</td><td>10m</td></tr> <tr><td>20</td><td>1200071010</td><td>884031P82M100</td><td>10m</td></tr> <tr><td>21</td><td>1200071096</td><td>884031P82M0037</td><td>0.3m</td></tr> <tr><td>22</td><td>1200071138</td><td>884031S20M010H</td><td>1m</td></tr> <tr><td>23</td><td>1200071139</td><td>884031S20M020H</td><td>2m</td></tr> <tr><td>24</td><td>1200071143</td><td>884031P82M0107</td><td>1m</td></tr> <tr><td>25</td><td>1200071144</td><td>884031P82M0207</td><td>2m</td></tr> <tr><td>26</td><td>1200071164</td><td>884031S20M003H</td><td>0.3m</td></tr> <tr><td>27</td><td>1200071179</td><td>884031S20M006H</td><td>0.6m</td></tr> <tr><td>28</td><td>1200071183</td><td>884031S20M030H</td><td>3m</td></tr> <tr><td>29</td><td>1200071189</td><td>884031S20M050H</td><td>5m</td></tr> <tr><td>30</td><td>1200071200</td><td>884031S20M015H</td><td>1.5m</td></tr> <tr><td>31</td><td>1200071236</td><td>884031S20M005H</td><td>0.5m</td></tr> <tr><td>32</td><td>1200071280</td><td>884031S20M040H</td><td>4m</td></tr> <tr><td>33</td><td>1200071318</td><td>884031P82M0067</td><td>0.6m</td></tr> <tr><td>34</td><td>1200071341</td><td>884031I20M030</td><td>3m</td></tr> <tr><td>35</td><td>1200071493</td><td>883031P82M0507</td><td>5m</td></tr> </table>	No.	Part No.	Engineering No.	Cable Length	1	1200060052	884031I20M005	0.5m	2	1200060053	884031I20M010	1m	3	1200060054	884031I20M015	1.5m	4	1200060055	884031I20M020	2m	5	1200070132	883031I03M003	0.3m	6	1200070133	883031I03M006	0.6m	7	1200070134	883031I03M010	1m	8	1200070136	883031I03M020	2m	9	1200070137	883031I03M030	3m	10	1200070138	883031I03M050	5m	11	1200070152	883031S20M010	1m	12	1200070153	883031S20M020	2m	13	1200070156	883031S20M050	5m	14	1200070522	884031I03M020	2m	15	1200070523	884031I03M030	3m	16	1200070534	884031S20M030	3m	17	1200070651	884031I03M006	0.6m	18	1200070768	884031S20M050	5m	19	1200070783	884031S20M100H	10m	20	1200071010	884031P82M100	10m	21	1200071096	884031P82M0037	0.3m	22	1200071138	884031S20M010H	1m	23	1200071139	884031S20M020H	2m	24	1200071143	884031P82M0107	1m	25	1200071144	884031P82M0207	2m	26	1200071164	884031S20M003H	0.3m	27	1200071179	884031S20M006H	0.6m	28	1200071183	884031S20M030H	3m	29	1200071189	884031S20M050H	5m	30	1200071200	884031S20M015H	1.5m	31	1200071236	884031S20M005H	0.5m	32	1200071280	884031S20M040H	4m	33	1200071318	884031P82M0067	0.6m	34	1200071341	884031I20M030	3m	35	1200071493	883031P82M0507	5m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>36</td><td>1200071575</td><td>884031P82M006</td><td>0.6m</td></tr> <tr><td>37</td><td>1200071576</td><td>884031P82M010</td><td>1m</td></tr> <tr><td>38</td><td>1200071577</td><td>884031P82M015</td><td>1.5m</td></tr> <tr><td>39</td><td>1200071578</td><td>884031P82M0307</td><td>3m</td></tr> <tr><td>40</td><td>1200071579</td><td>884031P82M050</td><td>5m</td></tr> <tr><td>41</td><td>1200071581</td><td>884031P82M020</td><td>2m</td></tr> <tr><td>42</td><td>1200071832</td><td>884031I20M050</td><td>5m</td></tr> <tr><td>43</td><td>1200071833</td><td>884031I20M100</td><td>10m</td></tr> <tr><td>44</td><td>1200071893</td><td>884031S20M100</td><td>10m</td></tr> <tr><td>45</td><td>1200071994</td><td>885031P82M0307</td><td>3m</td></tr> <tr><td>46</td><td>1200072696</td><td>883031S20M010H</td><td>1m</td></tr> <tr><td>47</td><td>1200072725</td><td>885031I26M005</td><td>0.5m</td></tr> <tr><td>48</td><td>1200072726</td><td>885031I26M010</td><td>1m</td></tr> <tr><td>49</td><td>1200659070</td><td>884031I20M010Y</td><td>1m</td></tr> <tr><td>50</td><td>1200659071</td><td>884031I20M015Y</td><td>1.5m</td></tr> <tr><td>51</td><td>1200659115</td><td>884031I20M005Y</td><td>0.5m</td></tr> <tr><td>52</td><td>1200660374</td><td>884031K05M005</td><td>0.5m</td></tr> <tr><td>53</td><td>1200660375</td><td>884031K05M006</td><td>0.6m</td></tr> <tr><td>54</td><td>1200660376</td><td>884031K05M010</td><td>1m</td></tr> <tr><td>55</td><td>1200660377</td><td>884031K05M015</td><td>1.5m</td></tr> <tr><td>56</td><td>1200660378</td><td>884031K05M020</td><td>2m</td></tr> <tr><td>57</td><td>1200660379</td><td>884031K05M030</td><td>3m</td></tr> <tr><td>58</td><td>1200660380</td><td>884031K05M040</td><td>4m</td></tr> <tr><td>59</td><td>1200660381</td><td>884031K05M050</td><td>5m</td></tr> <tr><td>60</td><td>1200660382</td><td>884031K05M060</td><td>6m</td></tr> <tr><td>61</td><td>1200660383</td><td>884031S20M010</td><td>1m</td></tr> <tr><td>62</td><td>1200660546</td><td>884031K05M100</td><td>10m</td></tr> <tr><td>63</td><td>1200661046</td><td>885031K03M010</td><td>1m</td></tr> <tr><td>64</td><td>1200661047</td><td>885031K03M020</td><td>2m</td></tr> <tr><td>65</td><td>1200661049</td><td>885031K03M040</td><td>4m</td></tr> <tr><td>66</td><td>1200661050</td><td>885031K03M050</td><td>5m</td></tr> <tr><td>67</td><td>1200661769</td><td>884031K05M150</td><td>15m</td></tr> <tr><td>68</td><td>1200669556</td><td>885031P03M015</td><td>1.5m</td></tr> <tr><td>69</td><td>1200660969</td><td>884031K03M003</td><td>0.3m</td></tr> <tr><td>70</td><td>1200661481</td><td>884031K03M120</td><td>12m</td></tr> </table>	No.	Part No.	Engineering No.	Cable Length	36	1200071575	884031P82M006	0.6m	37	1200071576	884031P82M010	1m	38	1200071577	884031P82M015	1.5m	39	1200071578	884031P82M0307	3m	40	1200071579	884031P82M050	5m	41	1200071581	884031P82M020	2m	42	1200071832	884031I20M050	5m	43	1200071833	884031I20M100	10m	44	1200071893	884031S20M100	10m	45	1200071994	885031P82M0307	3m	46	1200072696	883031S20M010H	1m	47	1200072725	885031I26M005	0.5m	48	1200072726	885031I26M010	1m	49	1200659070	884031I20M010Y	1m	50	1200659071	884031I20M015Y	1.5m	51	1200659115	884031I20M005Y	0.5m	52	1200660374	884031K05M005	0.5m	53	1200660375	884031K05M006	0.6m	54	1200660376	884031K05M010	1m	55	1200660377	884031K05M015	1.5m	56	1200660378	884031K05M020	2m	57	1200660379	884031K05M030	3m	58	1200660380	884031K05M040	4m	59	1200660381	884031K05M050	5m	60	1200660382	884031K05M060	6m	61	1200660383	884031S20M010	1m	62	1200660546	884031K05M100	10m	63	1200661046	885031K03M010	1m	64	1200661047	885031K03M020	2m	65	1200661049	885031K03M040	4m	66	1200661050	885031K03M050	5m	67	1200661769	884031K05M150	15m	68	1200669556	885031P03M015	1.5m	69	1200660969	884031K03M003	0.3m	70	1200661481	884031K03M120	12m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>71</td><td>1200660971</td><td>884031K</td></tr></table>	No.	Part No.	Engineering No.	Cable Length	71	1200660971	884031K
No.	Part No.	Engineering No.	Cable Length																																																																																																																																																																																																																																																																																																							
1	1200060052	884031I20M005	0.5m																																																																																																																																																																																																																																																																																																							
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5	1200070132	883031I03M003	0.3m																																																																																																																																																																																																																																																																																																							
6	1200070133	883031I03M006	0.6m																																																																																																																																																																																																																																																																																																							
7	1200070134	883031I03M010	1m																																																																																																																																																																																																																																																																																																							
8	1200070136	883031I03M020	2m																																																																																																																																																																																																																																																																																																							
9	1200070137	883031I03M030	3m																																																																																																																																																																																																																																																																																																							
10	1200070138	883031I03M050	5m																																																																																																																																																																																																																																																																																																							
11	1200070152	883031S20M010	1m																																																																																																																																																																																																																																																																																																							
12	1200070153	883031S20M020	2m																																																																																																																																																																																																																																																																																																							
13	1200070156	883031S20M050	5m																																																																																																																																																																																																																																																																																																							
14	1200070522	884031I03M020	2m																																																																																																																																																																																																																																																																																																							
15	1200070523	884031I03M030	3m																																																																																																																																																																																																																																																																																																							
16	1200070534	884031S20M030	3m																																																																																																																																																																																																																																																																																																							
17	1200070651	884031I03M006	0.6m																																																																																																																																																																																																																																																																																																							
18	1200070768	884031S20M050	5m																																																																																																																																																																																																																																																																																																							
19	1200070783	884031S20M100H	10m																																																																																																																																																																																																																																																																																																							
20	1200071010	884031P82M100	10m																																																																																																																																																																																																																																																																																																							
21	1200071096	884031P82M0037	0.3m																																																																																																																																																																																																																																																																																																							
22	1200071138	884031S20M010H	1m																																																																																																																																																																																																																																																																																																							
23	1200071139	884031S20M020H	2m																																																																																																																																																																																																																																																																																																							
24	1200071143	884031P82M0107	1m																																																																																																																																																																																																																																																																																																							
25	1200071144	884031P82M0207	2m																																																																																																																																																																																																																																																																																																							
26	1200071164	884031S20M003H	0.3m																																																																																																																																																																																																																																																																																																							
27	1200071179	884031S20M006H	0.6m																																																																																																																																																																																																																																																																																																							
28	1200071183	884031S20M030H	3m																																																																																																																																																																																																																																																																																																							
29	1200071189	884031S20M050H	5m																																																																																																																																																																																																																																																																																																							
30	1200071200	884031S20M015H	1.5m																																																																																																																																																																																																																																																																																																							
31	1200071236	884031S20M005H	0.5m																																																																																																																																																																																																																																																																																																							
32	1200071280	884031S20M040H	4m																																																																																																																																																																																																																																																																																																							
33	1200071318	884031P82M0067	0.6m																																																																																																																																																																																																																																																																																																							
34	1200071341	884031I20M030	3m																																																																																																																																																																																																																																																																																																							
35	1200071493	883031P82M0507	5m																																																																																																																																																																																																																																																																																																							
No.	Part No.	Engineering No.	Cable Length																																																																																																																																																																																																																																																																																																							
36	1200071575	884031P82M006	0.6m																																																																																																																																																																																																																																																																																																							
37	1200071576	884031P82M010	1m																																																																																																																																																																																																																																																																																																							
38	1200071577	884031P82M015	1.5m																																																																																																																																																																																																																																																																																																							
39	1200071578	884031P82M0307	3m																																																																																																																																																																																																																																																																																																							
40	1200071579	884031P82M050	5m																																																																																																																																																																																																																																																																																																							
41	1200071581	884031P82M020	2m																																																																																																																																																																																																																																																																																																							
42	1200071832	884031I20M050	5m																																																																																																																																																																																																																																																																																																							
43	1200071833	884031I20M100	10m																																																																																																																																																																																																																																																																																																							
44	1200071893	884031S20M100	10m																																																																																																																																																																																																																																																																																																							
45	1200071994	885031P82M0307	3m																																																																																																																																																																																																																																																																																																							
46	1200072696	883031S20M010H	1m																																																																																																																																																																																																																																																																																																							
47	1200072725	885031I26M005	0.5m																																																																																																																																																																																																																																																																																																							
48	1200072726	885031I26M010	1m																																																																																																																																																																																																																																																																																																							
49	1200659070	884031I20M010Y	1m																																																																																																																																																																																																																																																																																																							
50	1200659071	884031I20M015Y	1.5m																																																																																																																																																																																																																																																																																																							
51	1200659115	884031I20M005Y	0.5m																																																																																																																																																																																																																																																																																																							
52	1200660374	884031K05M005	0.5m																																																																																																																																																																																																																																																																																																							
53	1200660375	884031K05M006	0.6m																																																																																																																																																																																																																																																																																																							
54	1200660376	884031K05M010	1m																																																																																																																																																																																																																																																																																																							
55	1200660377	884031K05M015	1.5m																																																																																																																																																																																																																																																																																																							
56	1200660378	884031K05M020	2m																																																																																																																																																																																																																																																																																																							
57	1200660379	884031K05M030	3m																																																																																																																																																																																																																																																																																																							
58	1200660380	884031K05M040	4m																																																																																																																																																																																																																																																																																																							
59	1200660381	884031K05M050	5m																																																																																																																																																																																																																																																																																																							
60	1200660382	884031K05M060	6m																																																																																																																																																																																																																																																																																																							
61	1200660383	884031S20M010	1m																																																																																																																																																																																																																																																																																																							
62	1200660546	884031K05M100	10m																																																																																																																																																																																																																																																																																																							
63	1200661046	885031K03M010	1m																																																																																																																																																																																																																																																																																																							
64	1200661047	885031K03M020	2m																																																																																																																																																																																																																																																																																																							
65	1200661049	885031K03M040	4m																																																																																																																																																																																																																																																																																																							
66	1200661050	885031K03M050	5m																																																																																																																																																																																																																																																																																																							
67	1200661769	884031K05M150	15m																																																																																																																																																																																																																																																																																																							
68	1200669556	885031P03M015	1.5m																																																																																																																																																																																																																																																																																																							
69	1200660969	884031K03M003	0.3m																																																																																																																																																																																																																																																																																																							
70	1200661481	884031K03M120	12m																																																																																																																																																																																																																																																																																																							
No.	Part No.	Engineering No.	Cable Length																																																																																																																																																																																																																																																																																																							
71	1200660971	884031K																																																																																																																																																																																																																																																																																																								

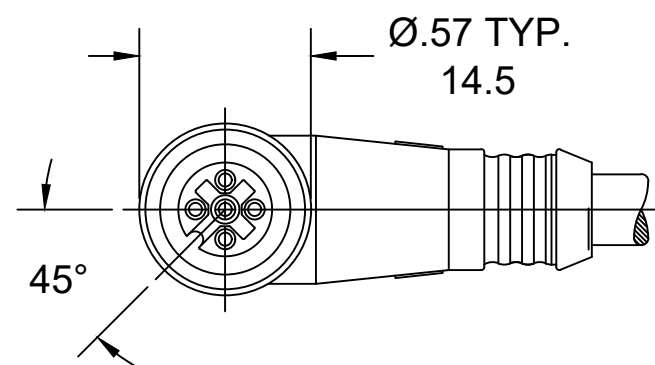
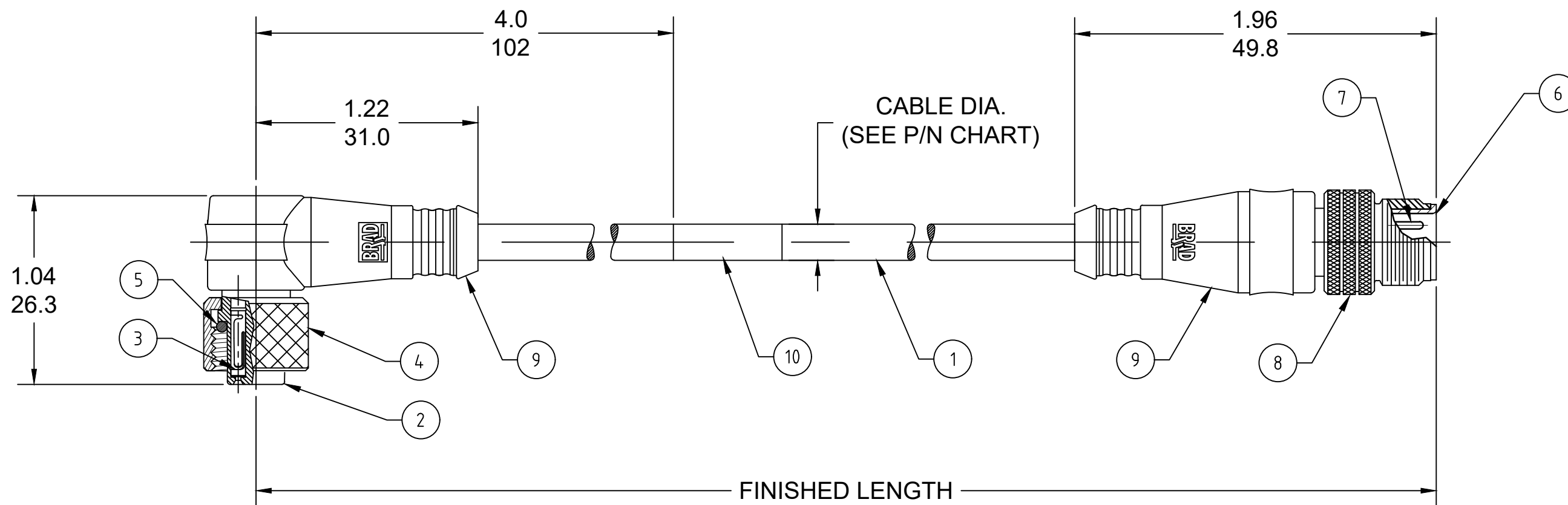
FORMAT: master thread-A3 REVISION: J	9	8
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4	3	2	1
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12	11	10	9
FEMALE FACE VIEW			
3 POLE	4 POLE	5 POLE	
1 BROWN 2 NOT USED 3 BLUE 4 BLACK 5 NOT USED	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 NOT USED	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GRAY	

PART NO	ENGINEERING NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200660221	883031K05M005	0.5M [1FT 7 IN]	3	.20/5.1
1200662145	885031K05M100	10M [32FT 9 IN]	5	.23/5.8
1200662227	884031K05M450	45M [147FT 8 IN]	4	.21/5.3

MALE FACE VIEW		
3-POLE	4-POLE	5-POLE
 Diagram of a 3-pole male face view. It shows a central square with four dots, surrounded by three concentric circles. Four leader lines point to the poles: 1 (top), 2 (right), 3 (left), and 4 (bottom).	 Diagram of a 4-pole male face view. It shows a central square with four dots, surrounded by four concentric circles. Four leader lines point to the poles: 1 (top), 2 (right), 3 (left), and 4 (bottom).	 Diagram of a 5-pole male face view. It shows a central square with four dots, surrounded by five concentric circles. Five leader lines point to the poles: 1 (top), 2 (right), 3 (left), 4 (bottom), and 5 (center).
1 BROWN 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK	1 BROWN 2 WHITE 3 BLUE 4 BLACK 5 GRAY



NOTES:

1. MATERIAL: AS NOTED
2. FINISH: AS NOTED
3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
4. TEMP RATING: -20°TO +105°C[Ⓓ]
5. PROTECTION: IP67 (WHEN MATED)
6. COUPLING THREAD: M12X1
7. UL RECOGNIZED FILE: E152210
CSA CERTIFIED FILE: LR6837
8. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

CABLE FLEX CHARACTERISTICS:

TORSIONAL FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
BEND FLEX TEST	10 MILLION CYCLES PER MIL-C-13777G
WELD SLAG RESISTANCE	WOODHEAD STANDARD S-300

10	WRAP LABEL	VINYL	BLACK/YELLOW
9	OVERMOLD	TPC	YELLOW
8	COUPLING NUT	BRASS	NICKEL PLATED
7	CONTACT PIN	COPPER ALLOY	GOLD PLATED
6	MALE INSERT	PUR	BLACK
5	O-RING	VITON	RED
4	COUPLING NUT	BRASS	NICKEL PLATED
3	CONTACT SOCKET	COPPER ALLOY	GOLD PLATED
2	FEMALE INSERT	PUR	BLACK
1	CABLE 22AWG	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

DOCUMENT STATUS	P1	RELEASE DATE	2020/10/23	13:29:01
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PART NO. MATRIX

883031K05M020

POLES: 3,4 & 5

FINISHED LENGTH

M005 = 0.5 METER

M010 = 1 METER

M100 = 10 METER

CABLE LENGTH TOLERANCES

<.3M [1FT]:	+19mm-0 [+.75in-0]
.3 - .9M [1 - 3FT]:	+44.5mm-0 [+1.75in-0]
.9 - 1.8M [3 - 6FT]:	+55.6mm-0 [+2.19in-0]
1.8 - 3.7M [6 - 12FT]:	+88.9mm-0 [+3.50in-0]
3.7 - 7.3M [12 - 24FT]:	+165.1mm-0 [+6.50in-0]
7.3-14.6M [24 - 48FT]:	+317.5mm-0 [+12.50in-0]
14.6 - 30.5M [48-100FT]:	+622.3mm-0 [+24.50in-0]
OVER 30M [100FT]	+2% OF FINISHED LENGTH

FUNCTIONAL SYMBOLS FA=0 FE=0 FD=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: ITEM# 9 WAS TPE. UPDATED TEMP RATING. MODIFIED MATERIAL TABLE			molex													
	INCH/MM		NTS																		
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 645633			MICRO-CHANGE CORDSET, M12 3/4/5 POLE, FE 90/MA STR, SINGLE KEY, 22 AWG HI-FLEX													
		mm	INCH																		
	4 PLACES		± ----	± ----	DRWN: ABENJAMINLW			2020/09/18													
	3 PLACES		± ----	± ----	CHK'D: RSTONE			2020/09/29													
	2 PLACES		± ----	± ----	APPR: BWOODMAN			2020/10/23													
	1 PLACE		± ----	± ----	INITIAL REVISION:			PRODUCT CUSTOMER DRAWING													
	0 PLACES		± ----	± ----	DRWN: LSTEMMLE							2010/02/01									
		± ----	± ----	APPR: FPACHER			2010/02/03														
ANGULAR TOL ± ---- °				THIRD ANGLE PROJECTION			DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						C-SIZE		120066		MATERIAL NUMBER		CUSTOMER		SD-120066-024		PSD		001		D	
										SEE CHART		GENERAL MARKET		SHEET NUMBER							
														1 OF 1							