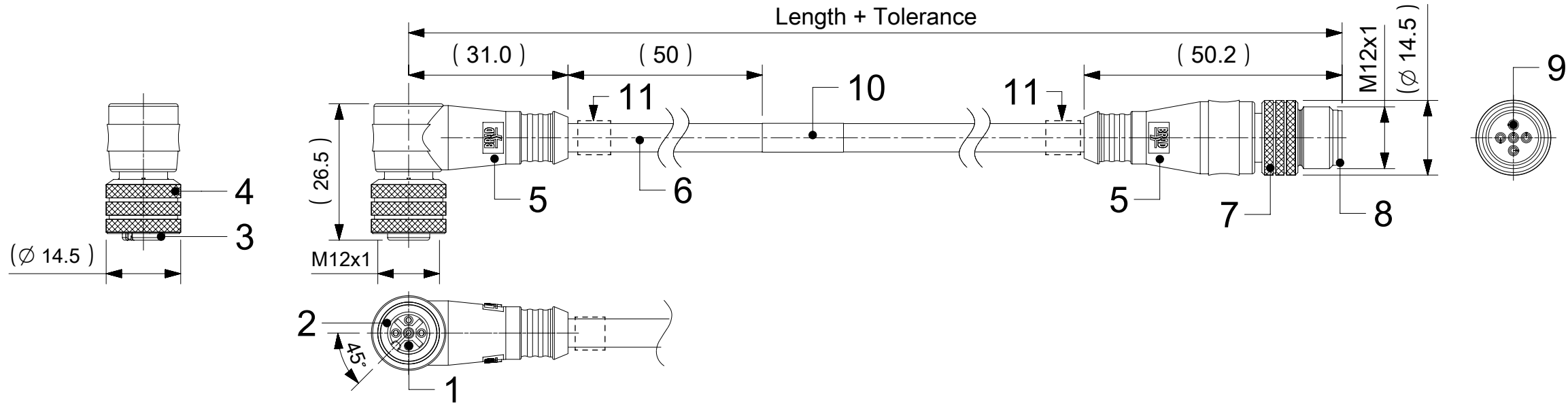


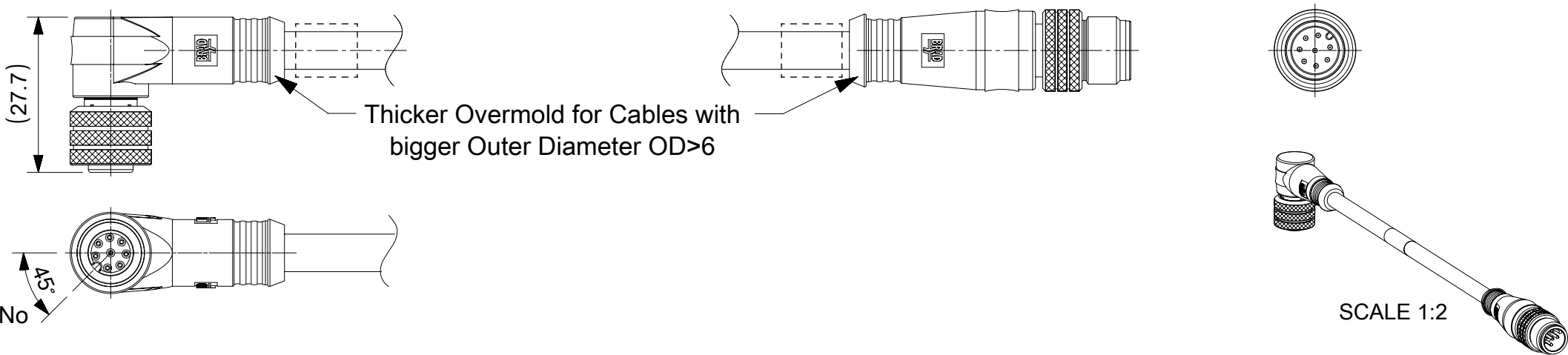
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



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								
							8	RED

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

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: ADD NEW PN FOR NEW LENGTH 7M			molex								
mm		1:1													
GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE M12 XP AC FE RA MA STR XM DE								
ANGULAR TOL ± 1.0 °															
4 PLACES ±															
3 PLACES ±				EC NO: 791338 DRWN: RSILLER 2024/07/03 CHK'D: THAERDT 2024/07/03 APPR: THAERDT 2024/07/03			PRODUCT CUSTOMER DRAWING								
2 PLACES ± 0.05															
1 PLACE ± 0.3															
0 PLACES ± 0.5				INITIAL REVISION: DRWN: JMARSZALEK 2016/10/06 APPR: RSILLER 2016/12/08			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION					DRAWING		SERIES		1200660973		PSD	000	A11
		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER			
		THIRD ANGLE PROJECTION		A3-SIZE		120066				GENERAL MARKET		1 OF 4			

DOCUMENT STATUS	P1	RELEASE DATE	2024/07/03	14:19:30
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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> </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	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>36</td><td>1200072725</td><td>885031I26M005</td><td>0.5m</td></tr> <tr><td>37</td><td>1200072726</td><td>885031I26M010</td><td>1m</td></tr> <tr><td>38</td><td>1200659070</td><td>884031I20M010Y</td><td>1m</td></tr> <tr><td>39</td><td>1200659071</td><td>884031I20M015Y</td><td>1.5m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	36	1200072725	885031I26M005	0.5m	37	1200072726	885031I26M010	1m	38	1200659070	884031I20M010Y	1m	39	1200659071	884031I20M015Y	1.5m	<table> <tr><th>No.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>71</td><td>1200665039</td><td>884031S20M003</td><td>0.3m</td></tr> <tr><td>72</td><td>1200665053</td><td>884031S20M060H</td><td>6m</td></tr> <tr><td>73</td><td>1200665074</td><td>884031K05M080</td><td>8m</td></tr> <tr><td>74</td><td>1200668052</td><td>883031S20M006</td><td>0.6m</td></tr> </table>				No.	Part No.	Engineering No.	Cable Length	71	1200665039	884031S20M003	0.3m	72	1200665053	884031S20M060H	6m	73	1200665074	884031K05M080	8m	74	1200668052	883031S20M006	0.6m	<table> <tr><th>Pos.</th><th>Part No.</th><th>Engineering No.</th><th>Cable Length</th></tr> <tr><td>106</td><td>1200668912</td><td>883031E03M050H</td><td>5m</td></tr> <tr><td>107</td><td>1200668175</td><td>883031E03M060</td><td>6m</td></tr> <tr><td>108</td><td>1200070127</td><td>883031E03M100</td><td>10m</td></tr> <tr><td>109</td><td>1200658762</td><td>883031H09M006</td><td>0.6m</td></tr> </table>				Pos.	Part No.	Engineering No.	Cable Length	106	1200668912	883031E03M050H	5m	107	1200668175	883031E03M060	6m	108	1200070127	883031E03M100	10m	109	1200658762	883031H09M006	0.6m	F																																																																																
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FORMAT: master-tb-prod-A3 REVISION: J1 DATE: 2021/05/01	9	8
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4	3	2	1
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10		9		8		7		6		5		4		3		2		1	
F	Pos.		Part No.		Engineering No.		Cable Length		Pos.		Part No.		Engineering No.		Cable Length				F
	143		1200668210		884031H09M009		0.9m		191		1200656208		888031H08C250		2.5m				
	144		1200668484		884031H09M010		1m		192		1200656209		888031H08M005		0.5m				
	145		1200668848		884031H09M013		1.3m		193		1200656210		888031H08M008		0.8m				
	146		1200668488		884031H09M015		1.5m		194		1200656211		888031H08M012		1.2m				
E	147		1200668845		884031H09M018		1.8m		195		1200656212		888031H08M015		1.5m				E
	148		1200668212		884031H09M020		2m		196		1200070057		883021E03M006		0.6m				
	149		1200668847		884031H09M021		2.1m		197		1200070058		883021E03M020		2m				
	150		1200668215		884031H09M030		3m		198		1200070439		884021P03M006		0.6m				
	151		1200668670		884031H09M050		5m		199		1200070440		884021P03M010		1m				
D	152		1200668671		884031H09M100		10m		200		1200070441		884021P03M020		2m				D
	153		1200070526		884031P03M003		0.3m		201		1200070442		884021P03M030		3m				
	154		1200070527		884031P03M006		0.6m		202		1200070870		883021P03M050		5m				
	155		1200060056		884031P03M010		1m		203		1200072191		883021E03M030		3m				
	156		1200060057		884031P03M020		2m		204		1200072198		883021E03M050		5m				
C	157		1200070529		884031P03M030		3m		205		1200665038		884021E03M050		5m				C
	158		1200071187		884031P03M050		5m		206		1200668061		884021E03M006		0.6m				
	159		1200072012		884031P03M100		10m		207		1200668219		884021E03M030		3m				
	160		1300288001		885031D12M020		2m		208		1200668673		888031E02M0041		0.4m				
	161		1200668658		885031E02M020		2m		209		1200669541		884031P03M015		1.5m				
B	162		1200668610		885031E02M050		5m		210		1200669885		884031E03M004		0.4m				B
	163		1200668660		885031E02M100		10m		211		1200669886		884031E03M005		0.5m				
	164		1200668339		885031E03M006		0.6m		212		1200669887		884031E03M013		1.3m				
	165		1200668189		885031E03M010		1m		213		1200669888		884031E03M080		8m				
	166		1200668278		885031E03M020		2m		214		1200070510		883031E03M070		7m				
A	167		1200668340		885031E03M030		3m												A
	168		1200668279		885031E03M050		5m												
	169		1200668653		885031E03M070		7m												
	170		1200668348		885031E03M100		10m												
	171		1200668761		885031E03M150		15m												
172		1200669229		885031H09C250		25m													
173		1200668512		885031H09M006		0.6m													
174		1200668496		885031H09M010		1m													
175		1200668513		885031H09M020		2m													
176		1200668514		885031H09M030		3m													
177		1200668515		885031H09M050		5m													
178		1200668516		885031H09M100		10m													
179		1200073085		885031P03M006		0.6m													
180		1200668188		885031P03M010		1m													
181		1200072376		885031P03M0105		1m													
182		1200070917		885031P03M020		2m													
183		1200668091		885031P03M025		2.5m													
184		1200070919		885031P03M030		3m													
185		1200668273		885031P03M050		5m													
186		1200073086		885031P03M100		10m													
187		1200070434		884021E03M020		2m													
188		1200658319		888031H08M050		5m													
189		1200668673		888031E02M0041		0.4m													
190		1200668849		888031P02M150		15m													
DOCUMENT STATUS		P1		RELEASE DATE		2024/07/03		14:19:30											
10		9		8		7		6		5		4		3		2		1	

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: ADD NEW PN FOR NEW LENGTH 7M				molex					
mm		1:1											
GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 791338 DRWN: RSILLER 2024/07/03 CHK'D: THAERDT 2024/07/03 APPR: THAERDT 2024/07/03				CSE M12 XP AC FE RA MA STR XM DE					
ANGULAR TOL ± 1.0 °													
4 PLACES		±											
3 PLACES		±						PRODUCT CUSTOMER DRAWING					
2 PLACES		± 0.05											
1 PLACE		± 0.3		INITIAL REVISION: DRWN: JMARSZALEK 2016/10/06 APPR: RSILLER 2016/12/08				DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION	
0 PLACES		± 0.5						1200660973		PSD	000	A11	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE	120066			GENERAL MARKET		4 OF 4	

9		8		7		6		5		4		3		2		1	
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147

1200668845

884031H09M018

1.8m

148

1200668212

884031H09M020

2m

149

1200668847

884031H09M021

2.1m

150

1200668215

884031H09M030

3m

151

1200668670

884031H09M050

5m

152

1200668671

884031H09M100

10m

153

1200070526

884031P03M003

0.3m

154

1200070527

884031P03M006

0.6m

155

1200060056

884031P03M010

1m

156

1200060057

884031P03M020

2m

157

1200070529

884031P03M030

3m

158

1200071187

884031P03M050

5m

159

1200072012

884031P03M100

10m

160

1300288001

885031D12M020

2m

161

1200668658

885031E02M020

2m

162

1200668610

885031E02M050

5m

163

1200668660

885031E02M100

10m

164

1200668339

885031E03M006

0.6m

165

1200668189

885031E03M010

1m

166

1200668278

885031E03M020

2m

167

1200668340

885031E03M030

3m

168

1200668279

885031E03M050

5m

169

1200668653

885031E03M070

7m

170

1200668348

885031E03M100

10m

171

1200668761

885031E03M150

15m

172

1200669229

885031H09C250

25m

173

1200668512

885031H09M006

0.6m

174

1200668496

885031H09M010

1m

175

1200668513

885031H09M020

2m

176

1200668514

885031H09M030

3m

177

1200668515

885031H09M050

5m

178

1200668516

885031H09M100

10m

179

1200073085

885031P03M006

0.6m

180

1200668188

885031P03M010

1m

181

1200072376

885031P03M0105

1m

182

1200070917

885031P03M020

2m

183

1200668091

885031P03M025

2.5m

184

1200070919

885031P03M030

3m

185

1200668273

885031P03M050

5m

186

1200073086

885031P03M100

10m

187

1200070434

884021E03M020

2m

188

1200658319

888031H08M050

5m

189

1200668673

888031E02M0041

0.4m

190

1200668849

888031P02M150

15m

DOCUMENT STATUS

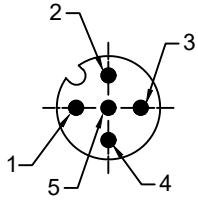
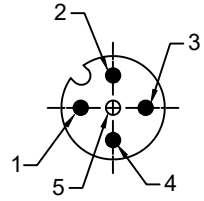
P1

RELEASE DATE

2024/07/03

14:19:30

FEMALE FACE VIEW	
4 POLE	5 POLE



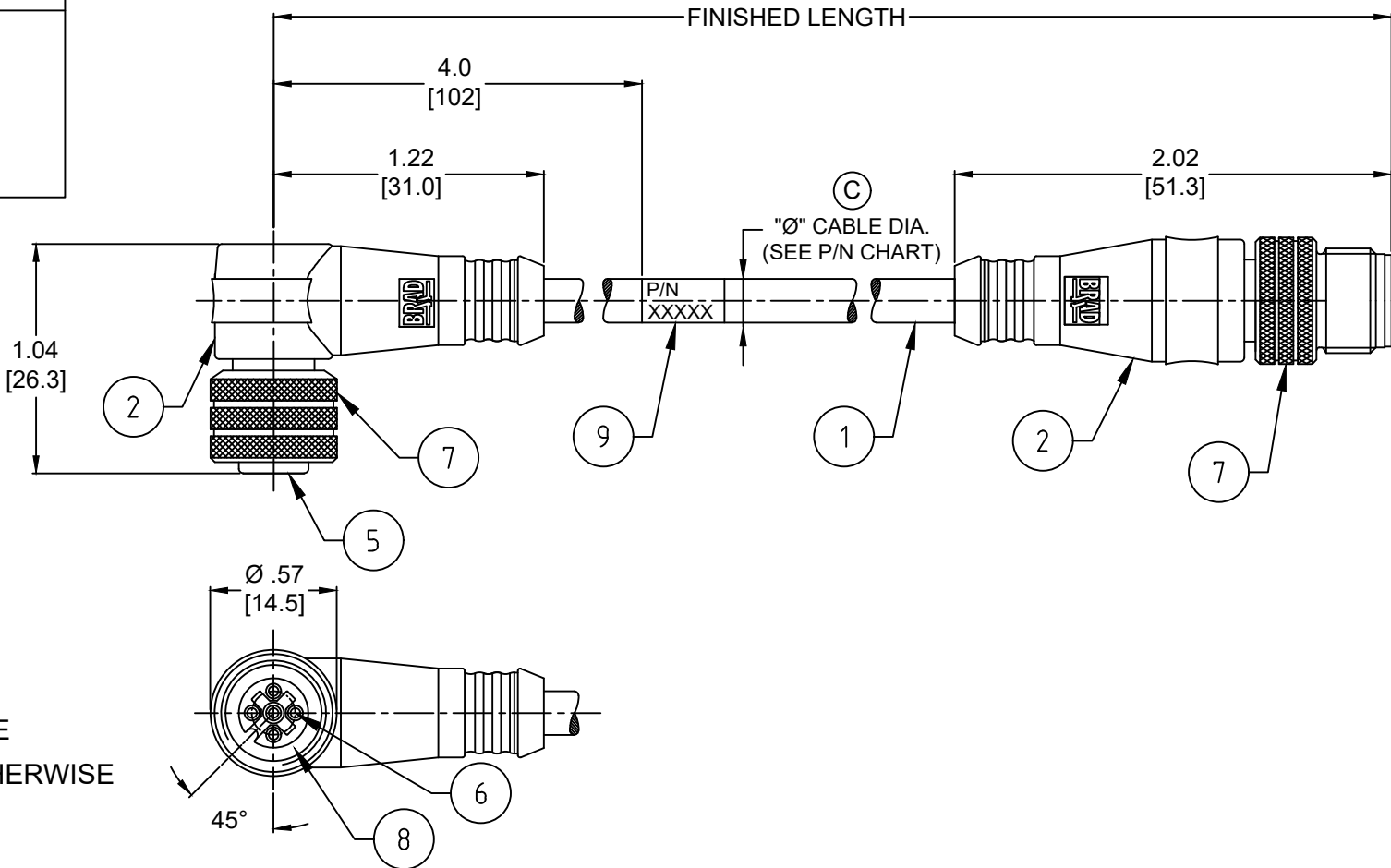
1 BROWN	1 BROWN
2 WHITE	2 WHITE
3 BLUE	3 BLUE
4 BLACK	4 BLACK
5 NOT USED	5 GRAY

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

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

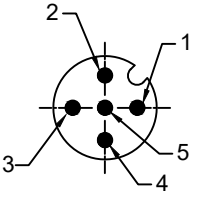
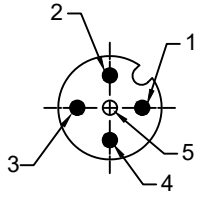
9	WRAP LABEL	VINYL	BLACK/YELLOW
8	O-RING	VITON	RED
7	COUPLER	BRASS	TEFLON/NICKEL
6	CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
5	INSERT (FEMALE)	PUR	BLACK
4	CONTACT PIN	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT (MALE)	PUR	BLACK
2	OVERMOLD	TPC	YELLOW
1	CABLE #18/4-5 AWG	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

PART NO	ENGINEERING NO.	FINISHED LENGTH	POLES	CABLE DIA.
1200660969	884031K03M003	0.3M [1FT]	4	.26/6.6
1202010015	884031K03M200	20M [65FT 7 IN]		
1200661045	885031K03M005	0.5M [1FT 8 IN]	5	.28/7.1
1200661961	885031K03M200	20M [65FT 7 IN]		

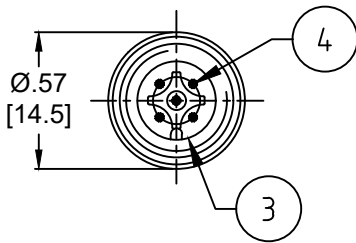


POLES	FINISHED LENGTH
(4 & 5)	M005 = 0.5 METER
	M010 = 1 METER
	M100 = 10 METER

MALE FACE VIEW	
4 POLE	5 POLE



1 BROWN	1 BROWN
2 WHITE	2 WHITE
3 BLUE	3 BLUE
4 BLACK	4 BLACK
5 NOT USED	5 GRAY



C

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 E A =0 E C =0 E P =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 #2 WAS TPE. ITEM #9 WAS MYLAR. REMOVED 3 POLE DETAILS. ADDED UL, CSA, TOL CHART & CABLE DIA. MODIFIED PN CHART & FACE VIEWS					molex MICRO-CHANGE CORDSET, M12 4-5 POLE, FEMALE 90DEG - MALE STRAIGHT, SINGLE KEY, #18 AWG TPE HI-FLEX										
	INCH/MM		NTS																	
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 669893 DRWN: ABENJAMINLW 2021/06/30 CHK'D: RSTONE 2021/07/12 APPR: BWOODMAN 2021/07/14					PRODUCT CUSTOMER DRAWING										
	mm		INCH																	
	4 PLACES		±----		±----		INITIAL REVISION: DRWN: LSTEMMLE 2010/02/01 APPR: FPACHER 2010/02/03					DOCUMENT NUMBER			DOC TYPE		DOC PART		REVISION	
	3 PLACES		±----		±----							SD-120066-021			PSD		001		C	
	2 PLACES		±----		±----		PRODUCT CUSTOMER DRAWING													
	1 PLACE		±----		±----															
	0 PLACES		±----		±----		DOCUMENT NUMBER					DOC TYPE		DOC PART		REVISION				
ANGULAR TOL ± ---- °						SD-120066-021						PSD		001		C				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION			DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
							A3-SIZE		120066		SEE CHART		GENERAL MARKET		1 OF 1					