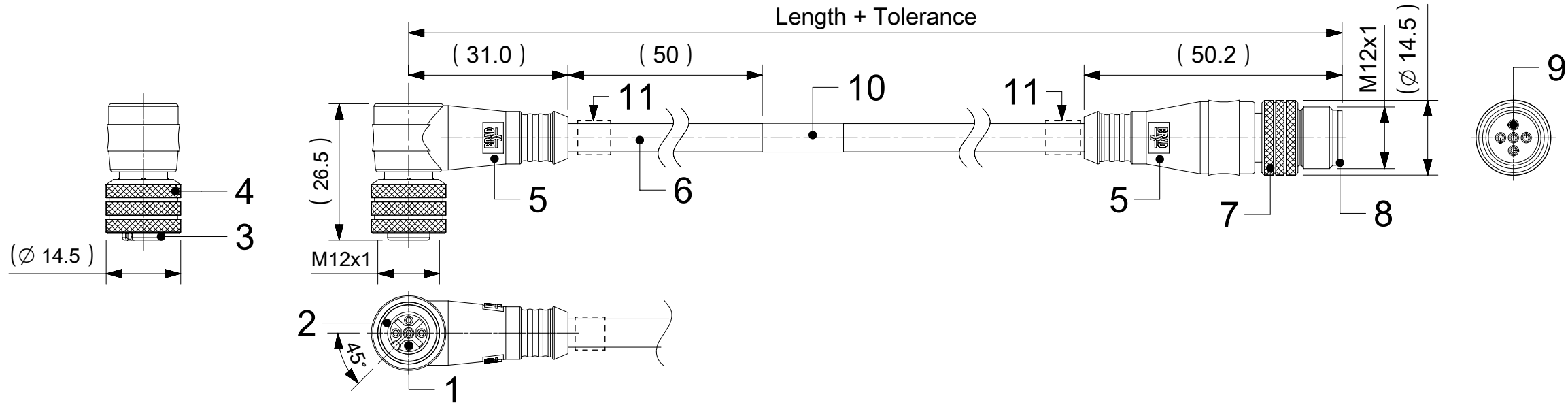


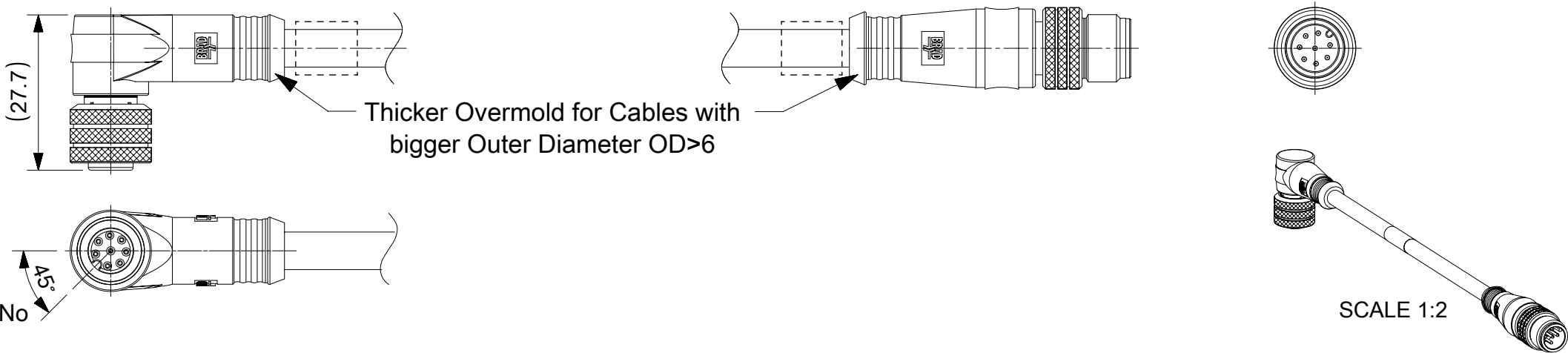
FEMALE PLUG M12 90° ANGLED TO MALE PLUG M12 STRAIGHT



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

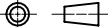


CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
FEMALE	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
MALE	3	---	3	---	3	---	3	---
	4	---	4	---	4	---	4	---
	1	---	1	---	1	---	1	---
	2	---	2	---	2	---	2	---
	5	---	5	---	5	---	5	---
CONNECTIONS	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
							8	RED
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

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 ±				PRODUCT CUSTOMER DRAWING					
2 PLACES ± 0.05									
1 PLACE ± 0.3									
0 PLACES ± 0.5				DOCUMENT NUMBER 1200660973		DOC TYPE	DOC PART	REVISION	
INITIAL REVISION: DRWN: JMARSZALEK APPR: RSILLER						PSD	000	A11	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES	
						A3-SIZE		120066	
						MATERIAL NUMBER		CUSTOMER	
								GENERAL MARKET	
								SHEET NUMBER	
								1 OF 4	

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

OPTIONS

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

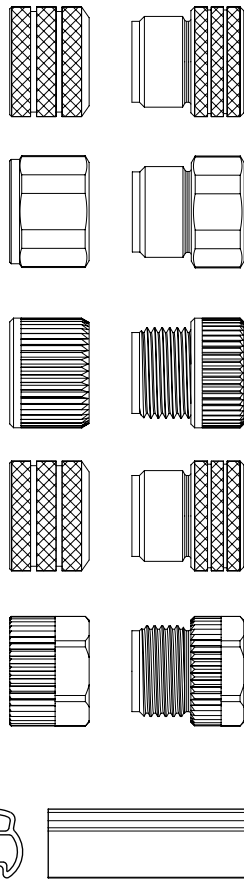
Units:
M=Meter
C=Centimeter

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

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

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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: ADD NEW PN FOR NEW LENGTH 7M

EC NO: 791338
DRWN: RSILLER
CHK'D: THAERDT
APPR: THAERDT

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING A3-SIZE

SERIES 120066

2024/07/03
2024/07/03
2024/07/03

2016/10/06
2016/12/08

DOCUMENT NUMBER 1200660973

DOC TYPE PSD

DOC PART 000

REVISION A11

MATERIAL NUMBER

CUSTOMER GENERAL MARKET

SHEET NUMBER 2 OF 4

molex

CSE M12 XP AC FE RA MA STR XM DE

PRODUCT CUSTOMER DRAWING

	10	9	8	7	6	5	4	3	2	1																																																																																																																																																																							
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12	1200070153	883031S20M020	2m																																																																																																																																																																														
13	1200070156	883031S20M050	5m																																																																																																																																																																														
14	1200070522	884031I03M020	2m																																																																																																																																																																														
40	1200659115	884031I20M005Y	0.5m																																																																																																																																																																														
41	1200660374	884031K05M005	0.5m																																																																																																																																																																														
42	1200660375	884031K05M006	0.6m																																																																																																																																																																														
43	1200660376	884031K05M010	1m																																																																																																																																																																														
44	1200660377	884031K05M015	1.5m																																																																																																																																																																														
45	1200660378	884031K05M020	2m																																																																																																																																																																														
46	1200660379	884031K05M030	3m																																																																																																																																																																														
47	1200660380	884031K05M040	4m																																																																																																																																																																														
48	1200660381	884031K05M050	5m																																																																																																																																																																														
49	1200660382	884031K05M060	6m																																																																																																																																																																														
75	1200668071	884031S20M020	2m																																																																																																																																																																														
76	1200668191	883031S20M030	3m																																																																																																																																																																														
77	1200668237	883031S20M100	10m																																																																																																																																																																														
78	1200668258	883031I03M080	8m																																																																																																																																																																														
79	1200668287	884031I20M025	2.5m																																																																																																																																																																														
80	1200668667	884031I20M030Y	3m																																																																																																																																																																														
81	1200070443	884021S20M003	0.3m																																																																																																																																																																														
82	1200070444	884021S20M006	0.6m																																																																																																																																																																														
83	1200070445	884021S20M010	1m																																																																																																																																																																														
84	1200070446	884021S20M020	2m																																																																																																																																																																														
110	1200658763	883031H09M010	1m																																																																																																																																																																														
111	1200658764	883031H09M020	2m																																																																																																																																																																														
112	1200658765	883031H09M030	3m																																																																																																																																																																														
113	1200669349	883031H09M030H	3m																																																																																																																																																																														
114	1200658766	883031H09M040	4m																																																																																																																																																																														
115	1200658767	883031H09M050	5m																																																																																																																																																																														
116	1200658768	883031H09M100	10m																																																																																																																																																																														
117	1200070140	883031P03M003	0.3m																																																																																																																																																																														
118	1200070141	883031P03M006	0.6m																																																																																																																																																																														
119	1200070142	883031P03M010	1m																																																																																																																																																																														
D	<table> <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>1200071138</td><td>884031S20M010H</td><td>1m</td></tr> <tr><td>21</td><td>1200071139</td><td>884031S20M020H</td><td>2m</td></tr></table>	15	1200070523	884031I03M030	3m	16	1200070534	884031S20M030	3m	17	1200070651	884031I03M006	0.6m	18	1200070768	884031S20M050	5m	19	1200070783	884031S20M100H	10m	20	1200071138	884031S20M010H	1m	21	1200071139	884031S20M020H	2m																																																																																																																																																				
15	1200070523	884031I03M030	3m																																																																																																																																																																														
16	1200070534	884031S20M030	3m																																																																																																																																																																														
17	1200070651	884031I03M006	0.6m																																																																																																																																																																														
18	1200070768	884031S20M050	5m																																																																																																																																																																														
19	1200070783	884031S20M100H	10m																																																																																																																																																																														
20	1200071138	884031S20M010H	1m																																																																																																																																																																														
21	1200071139	884031S20M020H	2m																																																																																																																																																																														

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						
	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						
	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						
	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						
	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														
	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

Pos.

Part No.

Engineering No.

Cable Length

191

1200656208

888031H08C250

2.5m

192

1200656209

888031H08M005

0.5m

193

1200656210

888031H08M008

0.8m

194

1200656211

888031H08M012

1.2m

195

1200656212

888031H08M015

1.5m

196

1200070057

883021E03M006

0.6m

197

1200070058

883021E03M020

2m

198

1200070439

884021P03M006

0.6m

199

1200070440

884021P03M010

1m

200

1200070441

884021P03M020

2m

201

1200070442

884021P03M030

3m

202

1200070870

883021P03M050

5m

203

1200072191

883021E03M030

3m

204

1200072198

883021E03M050

5m

205

1200665038

884021E03M050

5m

206

1200668061

884021E03M006

0.6m

207

1200668219

884021E03M030

3m

208

1200668673

888031E02M0041

0.4m

209

1200669541

884031P03M015

1.5m

210

1200669885

884031E03M004

0.4m

211

1200669886

884031E03M005

0.5m

212

1200669887

884031E03M013

1.3m

213

1200669888

884031E03M080

8m

214

1200070510

883031E03M070

7m

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

THIRD ANGLE PROJECTION

DRAWING

SERIES

A3-SIZE

120066

CURRENT REV DESC: ADD NEW PN FOR NEW LENGTH 7M

EC NO: 791338

DRWN: RSILLER

CHK'D: THAERDT

APPR: THAERDT

2024/07/03

2024/07/03

2024/07/03

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/10/06

2016/12/08

DOCUMENT NUMBER

1200660973

DOC TYPE

PSD

DOC PART

000

REVISION

A11

CSE M12 XP AC FE RA MA STR XM DE

PRODUCT CUSTOMER DRAWING

GENERAL MARKET

4 OF 4

DOCUMENT STATUS

P1

RELEASE DATE

2024/07/03

14:19:30

9

8

7

6

5

4

3

2

1

FORMAT: master-b-prod-A3

REVISION: 11

DATE: 2021/05/01

9

8

7

6

5

4

3

2

1