

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

80X000XXXXXX

80=M12x1
Single ended

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

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter

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
9=Knurled / Hexagonal Brass Ni Plated

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

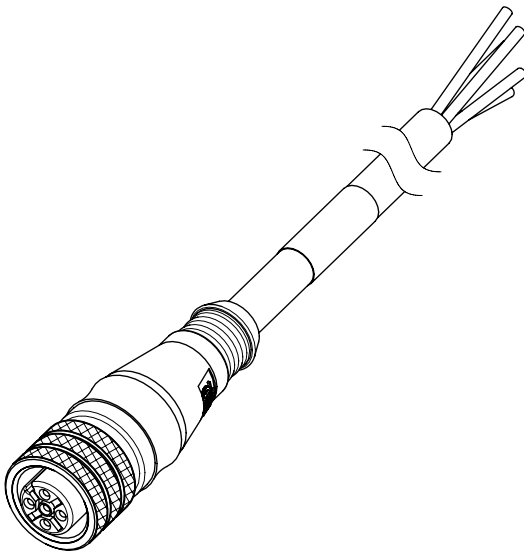
COUPLING NUTS

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	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



SCALE 1:1

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

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: NEW PN ADD TO DRAWING

EC NO: 726420
DRWN: RSILLER
CHK'D: THAERDT
APPR: THAERDT

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING A3-SIZE

SERIES 120065

2022/10/28
2022/10/28
2022/10/28
2016/01/11
2016/04/08

DOCUMENT NUMBER

1200651978

DOC TYPE

PSD

DOC PART

000

REVISION

A11

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

GENERAL MARKET

2 OF 4

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

10	9	8	7	6	5	4	3	2	1		
PART LIST											
No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
1	1200060001	803000E03M020	2m	36	1200060458	804000P03M0501	5m	71	1200063673	803000P03M1001	10m
2	1200060002	803000E03M050	5m	37	1200060461	804000P03M200	20m	72	1200063779	805000E03M300	30m
3	1200060003	803000E03M100	10m	38	1200060634	805000E03M020	2m	73	1200063940	804000P03M0051	0.5m
4	1200060004	803000P03M020	2m	39	1200060638	805000E03M100	10m	74	1200064033	804000P03M120	12m
5	1200060005	803000P03M050	5m	40	1200060646	805000P03M003	0.3m	75	1200064093	803000P03M032	3.2m
6	1200060006	803000P03M100	10m	41	1200060647	805000P03M020	2m	76	1200064292	805000P03M200	20m
7	1200060014	804000E03M020	2m	42	1200060649	805000P03M100	10m	79	1200064422	804000E03M120	12m
8	1200060015	804000E03M050	5m	43	1200061337	804000E03M0205	2m	80	1200064434	804000H09M050G	5m
9	1200060016	804000E03M100	10m	44	1200061431	805000P03M150	15m	81	1200065004	805000P03M0201	2m
10	1200060018	804000P03M020	2m	45	1200061528	804000E03M250	25m	82	1200065006	804000H09M250G	25m
11	1200060019	804000P03M050	5m	46	1200061765	803000P03M002	0.2m	83	1200065012	803000P03M030G	3m
12	1200060027	803000E03M006	0.6m	47	1200061785	804000P03M006	0.6m	84	1200650951	808000P02M020	2m
13	1200060032	804000E03M005	0.5m	48	1200061913	804000E03M300	30m	85	1200650952	808000P02M040	4m
14	1200060034	804000P03M025	2.5m	49	1200061958	803000E03M021	2.1m	86	1200650953	808000P02M050	5m
15	1200060107	803000E03M003	0.3m	50	1200062071	803000E03M060	6m	87	1200650954	808000P02M060	6m
16	1200060113	803000E03M030	3m	51	1200062098	803000P03M006	0.6m	88	1200650955	808000P02M080	8m
18	1200060116	803000E03M0505	5m	52	1200062130	804000E03M050H	5m	89	1200650956	808000P02M0801	8m
19	1200060117	803000E03M1005	10m	53	1200062167	804000P03M100H	10m	90	1200650957	808000P02M100	10m
20	1200060119	803000E03M150	15m	54	1200062264	804000E03M1505	15m	91	1200651769	803000P03M050G	5m
21	1200060121	803000E03M200	20m	55	1200062347	804000P03M050H	5m	92	1200651780	804000P03M050G	5m
22	1200060124	803000E03M2505	25m	56	1200062521	805000P03M030	3m	93	1200651782	804000P03M100	10m
23	1200060152	803000P03M010	1m	57	1200062772	803000P03M250	25m	94	1200651792	805000P03M050	5m
24	1200060153	803000P03M030	3m	58	1200062811	803000P03M100H	10m	95	1200651794	808000P02M010	1m
25	1200060157	803000P03M150	15m	59	1200062853	804000P03M150	15m	96	1200651795	808000P02M070	7m
26	1200060158	803000P03M200	20m	60	1200062866	804000E03M020H	2m	97	1200651817	808000P02M200	20m
27	1200060426	804000E03M010	1m	61	1200062992	804000E03M200H	20m	98	1200651818	808000P02M250	25m
28	1200060427	804000E03M0201	**	62	1200063121	804000P03M0053	0.5m	99	1200651820	808000P02M300	30m
29	1200060428	804000E03M030		63	1200063224	804000E03M003	0.3m	100	1200651978	805000E03M050	5m
30	1200060429	804000E03M0501	*	65	1200063314	805000E03M010	1m	101	1200652143	804000P03M040	4m
31	1200060430	804000E03M0505	5m	66	1200063402	804000P03M003	0.3m	102	1200652144	804000P03M060	6m
32	1200060431	804000E03M150	15m	67	1200063407	804000E03M1001	*	103	1200652154	805000P03M060	6m
33	1200060432	804000E03M200	20m	68	1200063415	803000P03M0707	7m	104	1200655073	808000P02M003	0.3m
34	1200060456	804000P03M0201	2m	69	1200063443	804000E03M030H	3m	105	1200655081	805000E03M150	15m
35	1200060457	804000P03M030	3m	70	1200063647	804000E03M2001	20m				

NOTES:

*

 - Part No. with Yellow PVC overmolding

**

 - Part No. with Black PVC overmolding

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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

120065

CURRENT REV DESC: NEW PN ADD TO DRAWING

EC NO: 726420

DRWN: RSILLER

CHK'D: THAERDT

APPR: THAERDT

2022/10/28

2022/10/28

2022/10/28

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/11

2016/04/08

DOCUMENT NUMBER

DOC TYPE

DOC PART

REVISION

1200651978

PSD

000

A11

DOCUMENT STATUS

P1

RELEASE DATE

2022/10/28

12:26:20

9

8

7

6

5

4

3

2

1

10

9

8

7

6

5

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1

PART LIST

No.	Part No.	Engineering No.	Cable Length
142	1200658492	804000P03M100G	10m
143	1200658502	805000E03M005	0.5m
144	1200658503	805000E03M0201	2m
145	1200658511	808000E02M010	1m
146	1200658525	808000P02C350	0.35m
147	1200658545	804000P03M015	1.5m
148	1200658550	804000H09M015	1.5m
149	1200658551	808000E02M1001	10m
150	1200658562	803000E03M010	1m
151	1200658563	803000E03M040	4m
152	1200658570	804000E03M040	4m
153	1200658590	808000E02M030	3m
154	1200658591	808000E02M040	4m
155	1200658592	805000E03M040	4m
156	1200658609	804000P02M020	2m
157	1200658610	803000P03M040	4m
161	1200658632	805000H09M010	1m
162	1200658633	805000H09M015	1.5m
163	1200658634	805000H09M030	3m
164	1200658635	805000H09M040	4m
165	1200658636	803000H09M010	1m
166	1200658637	803000H09M015	1.5m
167	1200658638	803000H09M030	3m
168	1200658639	803000H09M040	4m
169	1200658640	804000H09M010	1m
170	1200658641	804000H09M040	4m
171	1200658642	808000H08M010	1m
172	1200658643	808000H08M015	1.5m
173	1200658644	808000H08M020	2m
174	1200658645	808000H08M030	3m
175	1200658646	808000H08M040	4m

No.	Part No.	Engineering No.	Cable Length
176	1200658780	805000H09M200	20m
177	1200658782	804000E03M060	6m
178	1200658812	808000E02M150	15m
179	1200658813	808000H08M025	2.5m
181	1200658880	804000H09M200	20m
182	1200658882	804000E03M100H	10m
183	1200658887	803000E03M020H	2m
184	1200658889	803000E03M050H	5m
185	1200658891	804000H09M003	0.3m
186	1200658894	804000E03M020G	2m
187	1200658896	804000E03M075	7.5m
188	1200658899	808000H08M250	25m
192	1200658927	804000P02M050	5m
194	1200658930	808000H08M150	15m
196	1200658983	804000E03M002	0.2m
197	1200658984	808000E02M2501	25m
199	1200658991	805000P03M100H	10m
200	1200659038	804000E02M100	10m
201	1200659040	804000E02M050	5m
202	1200659052	808000E02M2001	20m
203	1200659053	808000E02M3001	30m
209	1200659088	804000P03M050HY	5m
210	1200659092	808000P02M050Y	5m

No.	Part No.	Engineering No.	Cable Length
217	1200659123	804000P03M100HY	10m
218	1200659144	805000H09M300	30m
219	1200659187	808000E02M4001	40m
221	1200659200	808000E02M250H	25m
222	1200659207	805000E03C230	0.23m
223	1200659214	805000P03M300	30m
224	1200659256	808000E02M200	20m
225	1200659279	805000E03M007	0.7m
226	1200659280	805000E03M350	35m
227	1200659282	805000P03M005	0.5m
228	1200659283	805000P03M007	0.7m
229	1200659302	804000P03M1005	10m
230	1200659326	805000P03M020H	2m
231	1200659329	805000P03M150H	15m
232	1200659330	805000P03M200H	20m
233	1200659334	808000P02M200H	20m
234	1200659340	804000P03M1501	15m
235	1200659341	804000P03M2501	25m
236	1200659368	805000E03M015	1.5m
237	1200659370	804000P03M020Y	2m
238	1200659387	808000E02M500	50m
239	1200659388	804000P03M012	1.2m
241	1200659397	808000P02M100Y	10m
242	1200659399	808000P02M015	1.5m
243	1200659474	804000P03M250	25m
244	1200659475	804000P03M300	30m
245	1200659509	805000E03M600	60m

No.	Part No.	Engineering No.	Cable Length
246	1200659552	808000P02M050H	5m
247	1200659553	808000P02M100H	10m
248	1200659554	808000P02M150H	15m
249	1200659584	803000H09M003	0.3m
250	1200659594	805000P03M300H	30m
251	1200659595	805000P03M350H	35m
252	1200659613	808000E02M300	30m
253	1200659786	804000E02M041	4.1m
254	1200659790	804000E02M020	2m
255	1200659538	808000E02M100	10m
256	1200656061	803000E02M010	1m
257	1200656303	805000E03M050Y	5m
258	1200656436	804000P03M0601	6m
259	1200656766	808000P02M350	35m
260	1200656767	808000P02M400	40m
261	1200657197	803000E03M005	0.5m
262	1200657198	803000E03M015	1.5m
263	1200657129	804000P03M400	40m
264	1200657130	804000P03M500	50m
265	1200657131	804000E03M006	0.6m
266	1200657132	804000E03M008	0.8m
267	1200657133	804000E03M015	1.5m
268	1200657134	804000E03M024	2.4m
269	1200657135	804000E03M070	7m
270	1200657136	804000E03M080	8m
271	1200657137	804000E03M090	9m
272	1200657138	804000E03M180	18m
273	1200657139	804000E03M350	35m
274	1200657140	804000E03M400	40m
275	1200657141	804000E03M450	45m
276	1200657142	804000E03M500	50m
277	1200657143	804000E03M550	55m
278	1200657180	805000E03M070	7m
279	1200657264	805000H09M500	50m
280	1200657306	805000H09M100H	10m

NOTES:

✱ - Part No. with Yellow PVC overmolding

✱✱ - Part No. with Black 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

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

DOCUMENT NUMBER

1200651978

DOC TYPE

PSD

DOC PART

000

REVISION

A11

CURRENT REV DESC: NEW PN ADD TO DRAWING

EC NO: 726420

DRWN: RSILLER 2022/10/28

CHK'D: THAERDT 2022/10/28

APPR: THAERDT 2022/10/28

INITIAL REVISION:

DRWN: JMARSZALEK 2016/01/11

APPR: RSILLER 2016/04/08

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT STATUS

P1

RELEASE DATE

2022/10/28 12:26:20

9

8

7

6

5

4

3

2

1

FORMAT: master-lb-prod-A3

REVISION: J1

DATE: 2021/05/01

ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

80X000XXXXXX

80=M12x1
Single ended

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

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter

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
9=Knurled / Hexagonal Brass Ni Plated

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

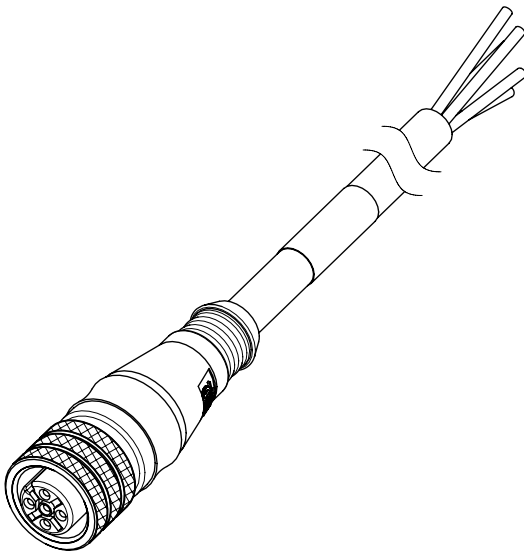
COUPLING NUTS

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	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



SCALE 1:1

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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: NEW PN ADD TO DRAWING

EC NO: 726420
DRWN: RSILLER
CHK'D: THAERDT
APPR: THAERDT

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING A3-SIZE

SERIES 120065

2022/10/28
2022/10/28
2022/10/28

2016/01/11
2016/04/08

DOCUMENT NUMBER 1200651978

DOC TYPE PSD

DOC PART 000

REVISION A11

MATERIAL NUMBER

CUSTOMER GENERAL MARKET

SHEET NUMBER 2 OF 4

molex

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

10	9	8	7	6	5	4	3	2	1		
PART LIST											
No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
1	1200060001	803000E03M020	2m	36	1200060458	804000P03M0501	5m	71	1200063673	803000P03M1001	10m
2	1200060002	803000E03M050	5m	37	1200060461	804000P03M200	20m	72	1200063779	805000E03M300	30m
3	1200060003	803000E03M100	10m	38	1200060634	805000E03M020	2m	73	1200063940	804000P03M0051	0.5m
4	1200060004	803000P03M020	2m	39	1200060638	805000E03M100	10m	74	1200064033	804000P03M120	12m
5	1200060005	803000P03M050	5m	40	1200060646	805000P03M003	0.3m	75	1200064093	803000P03M032	3.2m
6	1200060006	803000P03M100	10m	41	1200060647	805000P03M020	2m	76	1200064292	805000P03M200	20m
7	1200060014	804000E03M020	2m	42	1200060649	805000P03M100	10m	79	1200064422	804000E03M120	12m
8	1200060015	804000E03M050	5m	43	1200061337	804000E03M0205	2m	80	1200064434	804000H09M050G	5m
9	1200060016	804000E03M100	10m	44	1200061431	805000P03M150	15m	81	1200065004	805000P03M0201	2m
10	1200060018	804000P03M020	2m	45	1200061528	804000E03M250	25m	82	1200065006	804000H09M250G	25m
11	1200060019	804000P03M050	5m	46	1200061765	803000P03M002	0.2m	83	1200065012	803000P03M030G	3m
12	1200060027	803000E03M006	0.6m	47	1200061785	804000P03M006	0.6m	84	1200650951	808000P02M020	2m
13	1200060032	804000E03M005	0.5m	48	1200061913	804000E03M300	30m	85	1200650952	808000P02M040	4m
14	1200060034	804000P03M025	2.5m	49	1200061958	803000E03M021	2.1m	86	1200650953	808000P02M050	5m
15	1200060107	803000E03M003	0.3m	50	1200062071	803000E03M060	6m	87	1200650954	808000P02M060	6m
16	1200060113	803000E03M030	3m	51	1200062098	803000P03M006	0.6m	88	1200650955	808000P02M080	8m
18	1200060116	803000E03M0505	5m	52	1200062130	804000E03M050H	5m	89	1200650956	808000P02M0801	8m
19	1200060117	803000E03M1005	10m	53	1200062167	804000P03M100H	10m	90	1200650957	808000P02M100	10m
20	1200060119	803000E03M150	15m	54	1200062264	804000E03M1505	15m	91	1200651769	803000P03M050G	5m
21	1200060121	803000E03M200	20m	55	1200062347	804000P03M050H	5m	92	1200651780	804000P03M050G	5m
22	1200060124	803000E03M2505	25m	56	1200062521	805000P03M030	3m	93	1200651782	804000P03M100	10m
23	1200060152	803000P03M010	1m	57	1200062772	803000P03M250	25m	94	1200651792	805000P03M050	5m
24	1200060153	803000P03M030	3m	58	1200062811	803000P03M100H	10m	95	1200651794	808000P02M010	1m
25	1200060157	803000P03M150	15m	59	1200062853	804000P03M150	15m	96	1200651795	808000P02M070	7m
26	1200060158	803000P03M200	20m	60	1200062866	804000E03M020H	2m	97	1200651817	808000P02M200	20m
27	1200060426	804000E03M010	1m	61	1200062992	804000E03M200H	20m	98	1200651818	808000P02M250	25m
28	1200060427	804000E03M0201	**	62	1200063121	804000P03M0053	0.5m	99	1200651820	808000P02M300	30m
29	1200060428	804000E03M030		63	1200063224	804000E03M003	0.3m	100	1200651978	805000E03M050	5m
30	1200060429	804000E03M0501	*	65	1200063314	805000E03M010	1m	101	1200652143	804000P03M040	4m
31	1200060430	804000E03M0505	5m	66	1200063402	804000P03M003	0.3m	102	1200652144	804000P03M060	6m
32	1200060431	804000E03M150	15m	67	1200063407	804000E03M1001	*	103	1200652154	805000P03M060	6m
33	1200060432	804000E03M200	20m	68	1200063415	803000P03M0707	7m	104	1200655073	808000P02M003	0.3m
34	1200060456	804000P03M0201	2m	69	1200063443	804000E03M030H	3m	105	1200655081	805000E03M150	15m
35	1200060457	804000P03M030	3m	70	1200063647	804000E03M2001	20m				

NOTES:

*

 - Part No. with Yellow PVC overmolding

**

 - Part No. with Black PVC overmolding

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

A3-SIZE

SERIES

120065

CURRENT REV DESC: NEW PN ADD TO DRAWING

EC NO: 726420

DRWN: RSILLER

CHK'D: THAERDT

APPR: THAERDT

2022/10/28

2022/10/28

2022/10/28

INITIAL REVISION:

DRWN: JMARSZALEK

APPR: RSILLER

2016/01/11

2016/04/08

DOCUMENT NUMBER

1200651978

DOC TYPE

PSD

DOC PART

000

REVISION

A11

DOCUMENT STATUS

P1

RELEASE DATE

2022/10/28

12:26:20

9

8

7

6

5

4

3

2

1

10	9	8	7	6	5	4	3	2	1		
PART LIST											
No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length	No.	Part No.	Engineering No.	Cable Length
142	1200658492	804000P03M100G	10m	176	1200658780	805000H09M200	20m	217	1200659123	804000P03M100HY	10m
143	1200658502	805000E03M005	0.5m	177	1200658782	804000E03M060	6m	218	1200659144	805000H09M300	30m
144	1200658503	805000E03M0201	2m	178	1200658812	808000E02M150	15m	219	1200659187	808000E02M4001	40m
145	1200658511	808000E02M010	1m	179	1200658813	808000H08M025	2.5m	221	1200659200	808000E02M250H	25m
146	1200658525	808000P02C350	0.35m	181	1200658880	804000H09M200	20m	222	1200659207	805000E03C230	0.23m
147	1200658545	804000P03M015	1.5m	182	1200658882	804000E03M100H	10m	223	1200659214	805000P03M300	30m
148	1200658550	804000H09M015	1.5m	183	1200658887	803000E03M020H	2m	224	1200659256	808000E02M200	20m
149	1200658551	808000E02M1001	10m	184	1200658889	803000E03M050H	5m	225	1200659279	805000E03M007	0.7m
150	1200658562	803000E03M010	1m	185	1200658891	804000H09M003	0.3m	226	1200659280	805000E03M350	35m
151	1200658563	803000E03M040	4m	186	1200658894	804000E03M020G	2m	227	1200659282	805000P03M005	0.5m
152	1200658570	804000E03M040	4m	187	1200658896	804000E03M075	7.5m	228	1200659283	805000P03M007	0.7m
153	1200658590	808000E02M030	3m	188	1200658899	808000H08M250	25m	229	1200659302	804000P03M1005	10m
154	1200658591	808000E02M040	4m	192	1200658927	804000P02M050	5m	230	1200659326	805000P03M020H	2m
155	1200658592	805000E03M040	4m	194	1200658930	808000H08M150	15m	231	1200659329	805000P03M150H	15m
156	1200658609	804000P02M020	2m	196	1200658983	804000E03M002	0.2m	232	1200659330	805000P03M200H	20m
157	1200658610	803000P03M040	4m	197	1200658984	808000E02M2501	25m	233	1200659334	808000P02M200H	20m
161	1200658632	805000H09M010	1m	199	1200658991	805000P03M100H	10m	234	1200659340	804000P03M1501	15m
162	1200658633	805000H09M015	1.5m	200	1200659038	804000E02M100	10m	235	1200659341	804000P03M2501	25m
163	1200658634	805000H09M030	3m	201	1200659040	804000E02M050	5m	236	1200659368	805000E03M015	1.5m
164	1200658635	805000H09M040	4m	202	1200659052	808000E02M2001	20m	237	1200659370	804000P03M020Y	2m
165	1200658636	803000H09M010	1m	203	1200659053	808000E02M3001	30m	238	1200659387	808000E02M500	50m
166	1200658637	803000H09M015	1.5m	209	1200659088	804000P03M050HY	5m	239	1200659388	804000P03M012	1.2m
167	1200658638	803000H09M030	3m	210	1200659092	808000P02M050Y	5m	241	1200659397	808000P02M100Y	10m
168	1200658639	803000H09M040	4m					242	1200659399	808000P02M015	1.5m
169	1200658640	804000H09M010	1m					243	1200659474	804000P03M250	25m
170	1200658641	804000H09M040	4m					244	1200659475	804000P03M300	30m
171	1200658642	808000H08M010	1m					245	1200659509	805000E03M600	60m
172	1200658643	808000H08M015	1.5m								
173	1200658644	808000H08M020	2m								
174	1200658645	808000H08M030	3m								
175	1200658646	808000H08M040	4m								

NOTES:

✱

 - Part No. with Yellow PVC overmolding

✱✱

 - Part No. with Black PVC overmolding

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

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

THIRD ANGLE PROJECTION

DRAWING

A3-SIZE

SERIES

120065

DOCUMENT NUMBER

1200651978

DOC TYPE

PSD

DOC PART

000

REVISION

A11

CURRENT REV DESC: NEW PN ADD TO DRAWING

EC NO: 726420

DRWN: RSILLER 2022/10/28

CHK'D: THAERDT 2022/10/28

APPR: THAERDT 2022/10/28

INITIAL REVISION:

DRWN: JMARSZALEK 2016/01/11

APPR: RSILLER 2016/04/08

CSE M12 XP AC FE STR XM SE UNSH

PRODUCT CUSTOMER DRAWING

DOCUMENT STATUS

P1

RELEASE DATE

2022/10/28 12:26:20

9

8

7

6

5

4

3

2

1

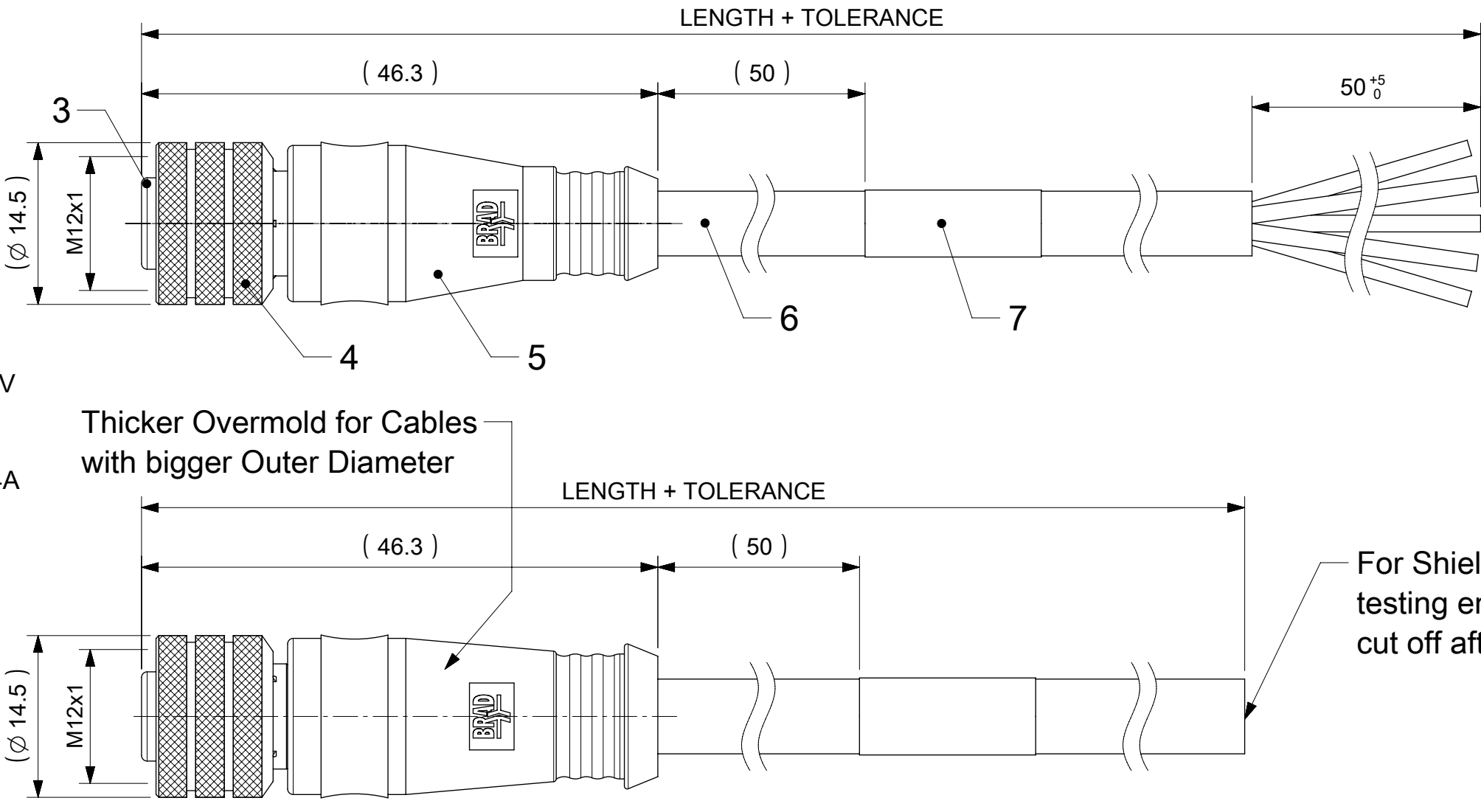
FORMAT: master-lb-prod-A3

REVISION: J1

DATE: 2021/05/01

FEMALE PLUG M12 STRAIGHT

NOTES:
RATED VOLTAGE: 3, 4 contacts 250V
5 contacts 60V
8 contacts 30V
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	
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 OR YELLOW/GREEN	4	BLACK	4	BLACK	4	YELLOW
5	---	5	---	5	GREY OR YELLOW/GREEN	5	GREY
						6	PINK
						7	BLUE
						8	RED

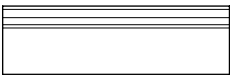
CODING REQUIRED TO IEC 61076-2-101

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	1	LABEL YELLOW	VINYL	---	
	-	PRINTING FOR CABLES lxx	---	---	
6	-	CABLE	SEE SHEET 2	---	
5	-	OVERMOLDING BLACK	TPU	---	
4	1	COUPLING NUT FEMALE	BRASS	NICKEL	
3	1	INSERT FEMALE BLACK	PUR	---	
2	1	ORING RED	FPM	---	
1	3 / 4 / 5 / 8	CONTACT M12 FEMALE	BRASS	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		CURRENT REV DESC: ADDED NEW P/N: 1200651287; 1200651293; 1200651300; 1200652022			
mm		molex CSE M12 XP AC FE STR XM SE UNSH			
SCALE 2:1					
GENERAL TOLERANCES (UNLESS SPECIFIED)		PRODUCT CUSTOMER DRAWING			
ANGULAR TOL ± 1.0 °					
4 PLACES ±		EC NO: 775470			
3 PLACES ±		DRWN: AKABADI 2023/10/22			
2 PLACES ± 0.05		CHK'D: THAERDT 2024/01/30			
1 PLACE ± 0.3		APPR: THAERDT 2024/01/30			
0 PLACES ± 0.5		INITIAL REVISION:			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRWN: JMARSZALEK 2016/01/12			
		APPR: RSILLER 2016/04/08			
THIRD ANGLE PROJECTION		DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION
		1200658605	PSD	000	A7
DRAWING		MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
A3-SIZE		SEE PART LIST	GENERAL MARKET		1 OF 4
SERIES					
120065					

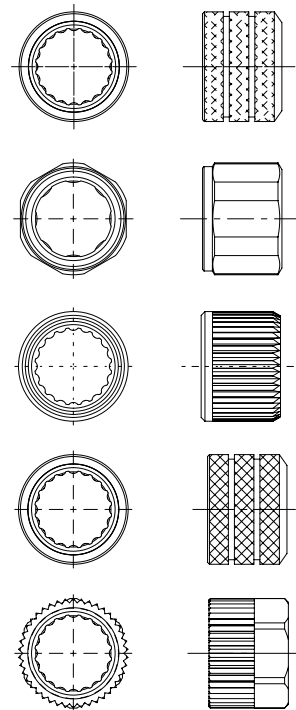
ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Others on request).

OPTIONS



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

COUPLING NUTS



80=M12x1
Single ended

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

Heads style:
000=Plug Female Straight

Cable type: See Table

Units:
M=Meter
C=Centimeter

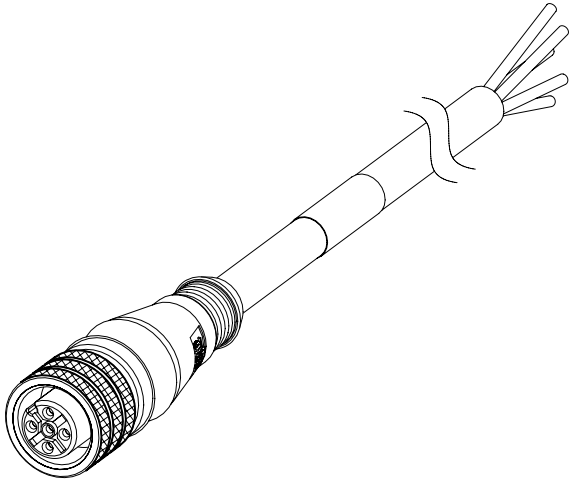
Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

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) & 3=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

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
E13	3	18AWG	PVC YELLOW	UL 2661/1731	I/II A/B 80°C/300V	-	-	-	-
E52	3 / 4 / 8	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
E63	5	0.34mm²	PVC GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	YES
H12	4	0.50mm²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°C/300V	-50°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000, Temp max 60°C	-
H69	4	0.20mm²	PUR GREY LS0H	-	-	-	-	-	-
I02	3 / 4 / 8	0.25mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I03	3 / 4 / 5	0.34mm²	PVC CEI GREY	-	-	-30°C to +70°C	-5°C to +70°C	-	-
I04	4	0.50mm²	PVC CEI GREY	-	-	-25°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	-	-
K03	4 / 5	0.34mm²	TPE YELLOW	UL JEC 60332-1 or PLCT	I/II 90°C/300V	-	-	-	-
K05	3 / 4 / 5	0.34mm²	TPE YELLOW	UL ITC E195601 or PLC	I/II A/B 90°C/300V	-	-	-	-
P04	4	0.50mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	-	-
P12	3 / 5	0.50mm²	PUR BLACK	-	-	-30°C to +90°C	-5°C to +90°C	-	-
P19	8	0.25mm²	PUR BLACK	-	-	-40°C to +90°C, 7.5xO.D.	-15°C to +90°C, 12.5xO.D.	2 000 000 cycles, 15xO.D.	YES
P20	3 / 4 / 5	0.34mm²	PUR BLACK LS0H	-	-	-30°C to +80°C	-	-	YES
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-
S19	8	0.25mm²	PVC YELLOW	UL 2661/1569	C22.2 II A 105°C/300V	-30°C to +105°C, 10xO.D.	-15°C to +105°C, 15xO.D.	-	YES
S20	3 / 4 / 5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES
S26	5	0.34mm²	PVC YELLOW	UL 2661/1731	C22.2 II A 105°C/300V	-30°C to +105°C	-	-	YES



SCALE 1:1

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	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: ADDED NEW P/N:
1200651287; 1200651293; 1200651300; 1200652022

EC NO: 775470
DRWN: AKABADI
CHK'D: THAERDT
APPR: THAERDT

INITIAL REVISION:
DRWN: JMARSZALEK
APPR: RSILLER

THIRD ANGLE PROJECTION

DRAWING

SERIES

MATERIAL NUMBER

CUSTOMER

SHEET NUMBER

2023/10/22

2024/01/30

2024/01/30

2016/01/12

2016/04/08

2023/10/22

2024/01/30

2024/01/30

2016/01/12

2016/04/08

2023/10/22

2024/01/30

2024/01/30

2016/01/12

2016/04/08

2023/10/22

2024/01/30

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2023/10/22

2024/01/30

2024/01/30

2016/01/12

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8P CABLE E52									
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1200658236			808000E52M020		2000				
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1200659997			808000E52M100		10000				
5P CABLE E63									
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4P CABLE H12									
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1200659768			804000H12M0309		3000				
1200659113			804000H12M050		5000				
1200659769			804000H12M0509		5000				
1200659271			804000H12M100		10000				
1200659770			804000H12M1009		10000				
3P CABLE H69									
1200062094			803000H69M050		5000				
4P CABLE H69									
1200061680			804000H69M050		5000				
1200658242			804000H69M300		30000				
8P CABLE I02									
1200658677			808000I02M010		1000				
1200658678			808000I02M020		2000				
1200658679			808000I02M030		3000				
1200658680			808000I02M040		4000				
1200658681			808000I02M050		5000				
1200658682			808000I02M100		10000				

NOTES:

✱ - Part No. with Yellow PVC overmolding

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