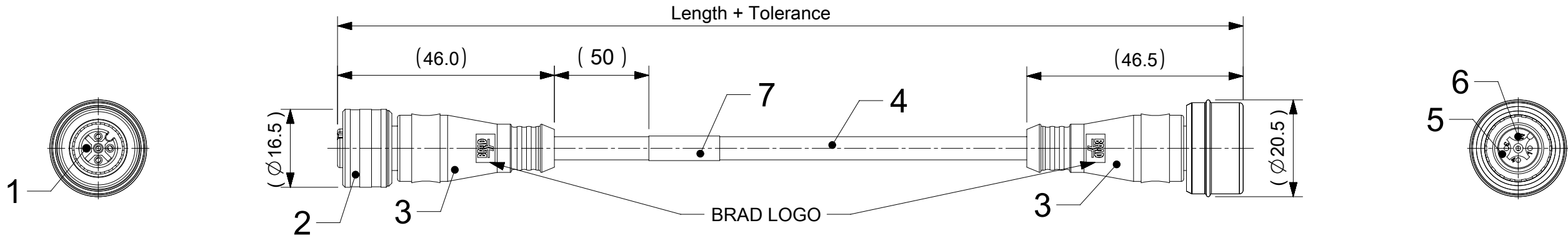


FEMALE PLUG M12U STRAIGHT TO MALE PLUG M12U STRAIGHT

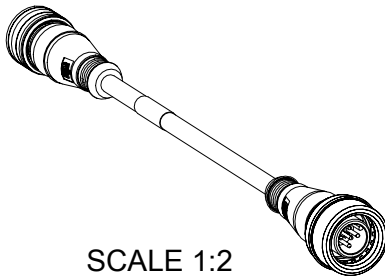


NOTES:

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 / +80°C

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
MALE	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
	5	GREY OR GREEN/YELLOW	5	GREY OR GREEN/YELLOW	5	GREY OR GREEN/YELLOW	5	GREY
	6	PINK	6	PINK	6	PINK	6	PINK
CONNECTIONS	7	BLUE	7	BLUE	7	BLUE	7	BLUE
	8	RED	8	RED	8	RED	8	RED
CODING REQUIRED TO IEC 61076-2-101								

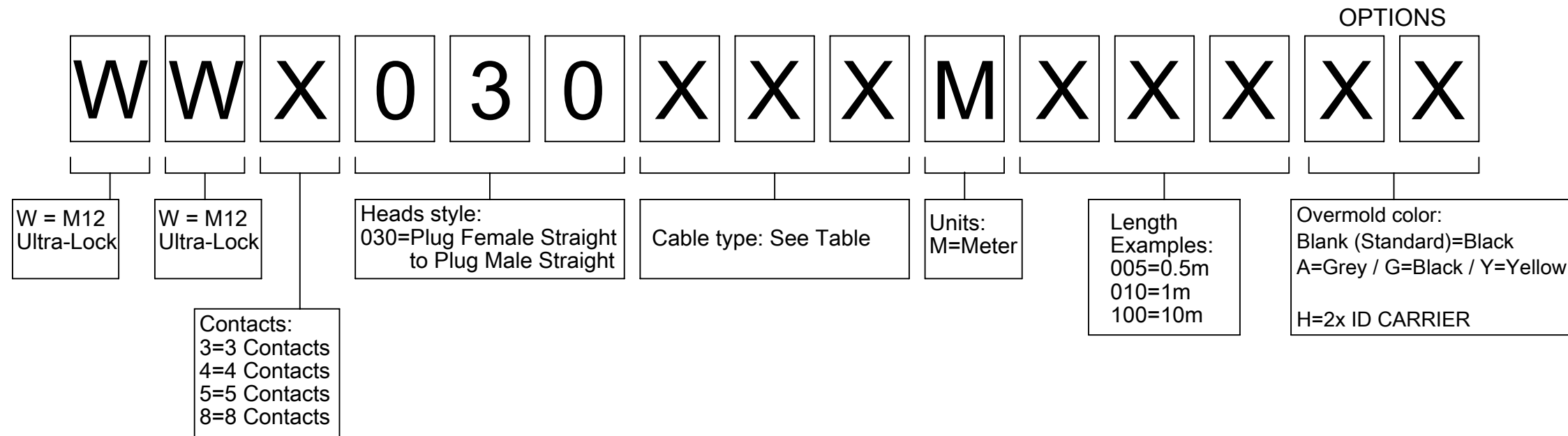


FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	1	LABEL YELLOW	VINYL	-
6	3 / 4 / 5 / 8	CONTACT MALE	BRASS	SELECTIVE GOLD OVER NICKEL
5	1	PLUG U12 MALE XP	PUR, BRASS	-
4	-	CABLE	SEE SHEET 2	-
3	-	OVERMOULDING BLACK	TPU	-
2	1	PLUG U12 FEMALE XP	PUR, BRASS	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION																	
FUNCTIONAL SYMBOLS	DIMENSION UNITS		SCALE		CURRENT REV DESC: MALE PLUG UPDATED			molex									
	mm		1:1														
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 695694			CSE U12 XP AC STR PUR/PVC MA XP STR XM DE									
	ANGULAR TOL ± 1.0 °																
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 695694			PRODUCT CUSTOMER DRAWING									
	3 PLACES		±		DRWN: MDHARMANTI 2022/01/21												
	2 PLACES		± 0.05		CHK'D: RSILLER 2022/02/15												
	1 PLACE		± 0.3		APPR: RSILLER 2022/02/15												
	0 PLACES		± 0.5		INITIAL REVISION:												
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
						A3-SIZE		120080		1200805076		PSD		000		A	
										MATERIAL NUMBER		CUSTOMER				SHEET NUMBER	
										SEE MATRIX		GENERAL MARKET				1 OF 3	

ENGINEERING NO. - NUMERICAL CODE



CABLE INFORMATION

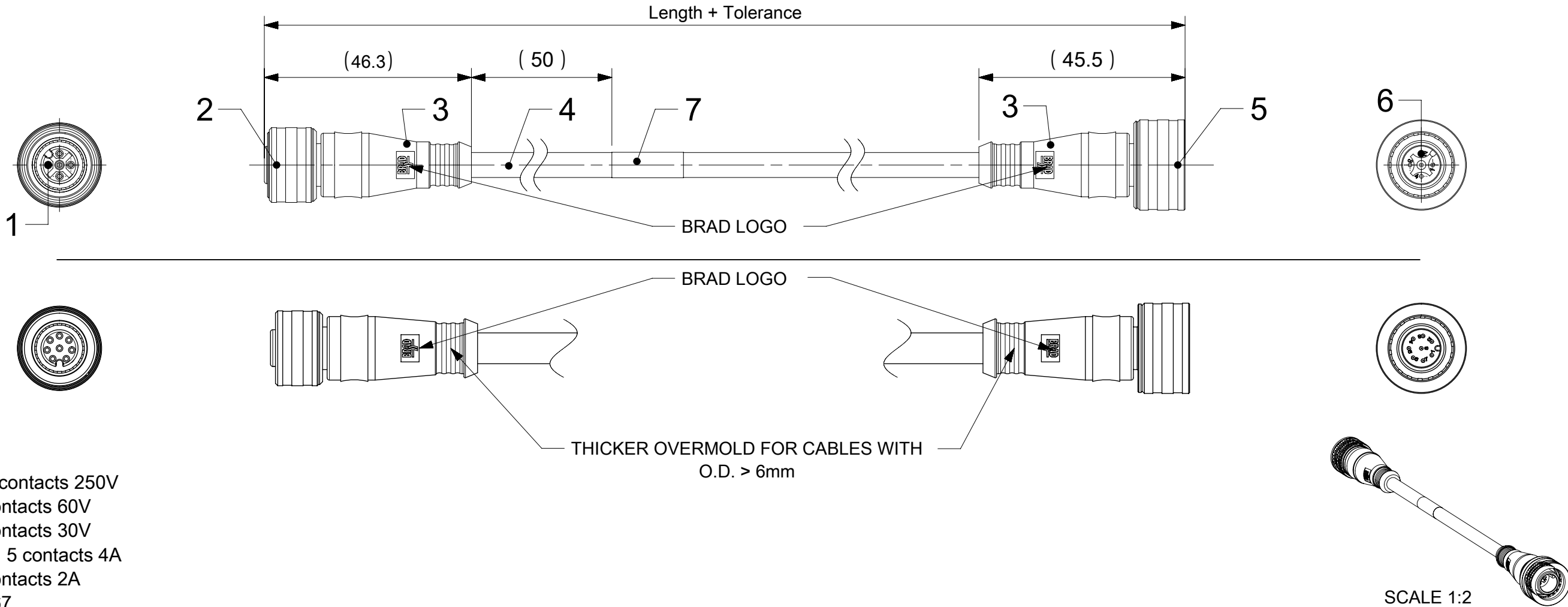
CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E03	3 / 4 / 5	0.34mm ²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°C/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H08	3 / 4 / 5 / 8	0.25mm ²	PUR BLACK LS0H	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	0.34mm ²	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	0.25mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P03	3 / 4 / 5	0.34mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P82	5	0.34mm ²	PUR / IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-

CABLE LENGTH TOLERANCES

OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% of finished length

FUNCTIONAL 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: MALE PLUG UPDATED			molex							
	mm		1:1												
	GENERAL TOLERANCES (UNLESS SPECIFIED)							CSE U12 XP AC STR PUR/PVC MA XP STR XM DE							
ANGULAR TOL ± 1.0°															
DIVISIONAL SYMBOLS	4 PLACES		±		EC NO: 695694 DRWN: MDHARMANTI 2022/01/21 CHK'D: RSILLER 2022/02/15 APPR: RSILLER 2022/02/15			PRODUCT CUSTOMER DRAWING							
	3 PLACES		±												
	2 PLACES		± 0.05					DOCUMENT NUMBER 1200805076 DOC TYPE PSD DOC PART 000 REVISION A							
	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
						A3-SIZE		120080		SEE MATRIX		GENERAL MARKET		2 OF 3	

FEMALE PLUG M12U STRAIGHT TO MALE PLUG M12U 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 / +80°C

CONTACTS POSITION FRONT VIEW:

	3 CONTACTS		4 CONTACTS		5 CONTACTS		8 CONTACTS	
FEMALE								
MALE								
CONNECTIONS	PIN	WIRE	PIN	WIRE	PIN	WIRE	PIN	WIRE
	1	BROWN	1	BROWN	1	BROWN	1	WHITE
	2	-	2	WHITE	2	WHITE	2	BROWN
	3	BLUE	3	BLUE	3	BLUE	3	GREEN
	4	BLACK	4	BLACK	4	BLACK	4	YELLOW
					5	GREY OR GREEN/YELLOW	5	GREY
							6	PINK
							7	BLUE
CODING REQUIRED TO IEC 61076-2-101								

FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

7	1	LABEL YELLOW	VINYL	-
6	3 / 4 / 5 / 8	CONTACT MALE	BRASS	SELECTIVE GOLD OVER NICKEL
5	1	PLUG U12 MALE XP	PUR, BRASS	-
4	-	CABLE	SEE SHEET 2	-
3	-	OVERMOULDING BLACK	TPU	-
2	1	PLUG U12 FEMALE XP	PUR, BRASS	-
1	3 / 4 / 5 / 8	CONTACT FEMALE	BRASS	SELECTIVE GOLD OVER NICKEL
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

QUALITY SYMBOLS

= 0

= 0

= 0

= 0

= 0

= 0

= 0

= 0

= 0

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

2018/06/21
2018/06/27
2018/06/28

EC NO: 178454
DRWN: SSM
CHK'D: SSM
REV APPR: RSILLER

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

DIMENSION UNITS
mm

SCALE
1:1

DRWN BY
MKOWALCZYK01

DATE
2017/05/18

CHK'D BY

DATE

APPR BY
MIWASIECZKO

DATE
2017/05/31

DRAWING SIZE
A3

THIRD ANGLE PROJECTION

M12U-XP-FE-STR-XP-M-STR-XM

PRODUCT CUSTOMER DRAWING

SERIES
120080

MATERIAL NUMBER
SEE MATRIX

CUSTOMER
GENERAL MARKET

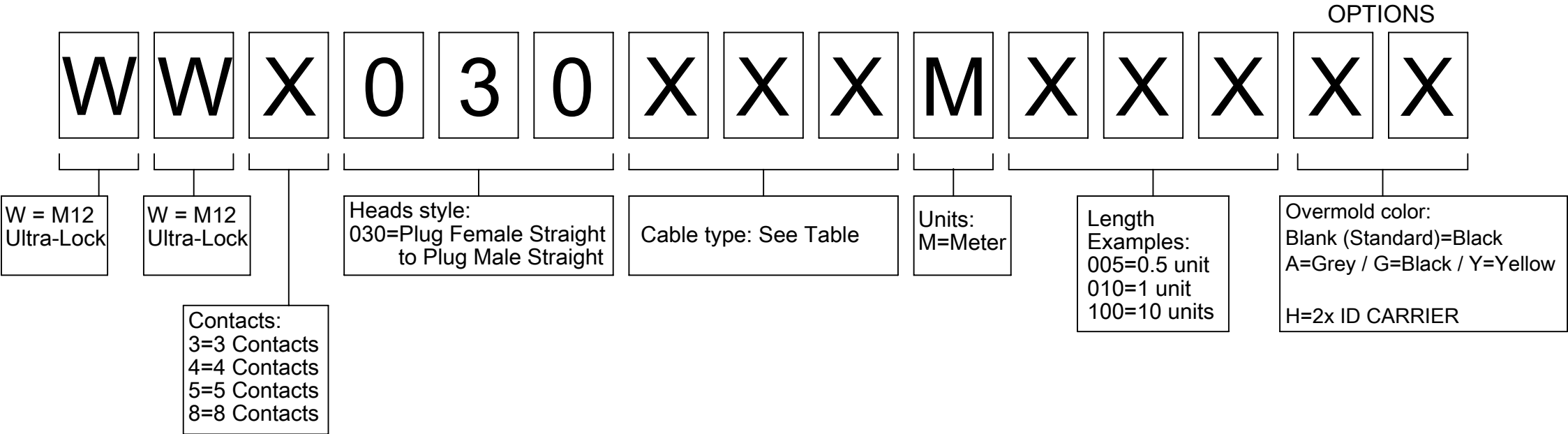
DOCUMENT NUMBER
1200805076

DOC TYPE
PSD

DOC PART
00P

SHEET NUMBER
1 OF 3

ENGINEERING NO. - NUMERICAL CODE



CABLE INFORMATION

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
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.	-	-
P82	5	0.34mm²	PUR / IRR ORANGE	-	-	-50°C to +105°C, 5xO.D.	-40°C to +105°C, 7.5xO.D.	-	-

CABLE LENGTH TOLERANCES

OVER [mm]	UP TO AND INCLUDING [mm]	TOLERANCES [mm]
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% of finished length

QUALITY SYMBOLS

FA

= 0

FC

= 0

FP

= 0

▼

= 0

▽

= 0

⊠

= 0

■

= 0

▽

= 0

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

2018/06/21
2018/06/27
2018/06/28

EC NO: 178454
DRWN: SSM
CHK'D: SSM
REV APPR: RSILLER

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

DIMENSION UNITS

mm

SCALE

1:1

DRWN BY

DATE

MKOWALCZYK01

2017/05/18

CHK'D BY

DATE

APPR BY

DATE

MIWASIECZKO

2017/05/31

DRAWING SIZE

A3

THIRD ANGLE PROJECTION

molex®

M12U-XP-FE-STR-XP-M-STR-XM

PRODUCT CUSTOMER DRAWING

SERIES

120080

MATERIAL NUMBER

SEE MATRIX

CUSTOMER

GENERAL MARKET

DOCUMENT NUMBER

1200805076

DOC TYPE

PSD

DOC PART

00P

SHEET NUMBER

2 OF 3

RELEASE STATUS

P1

RELEASE DATE

2018/06/28 06:17:11

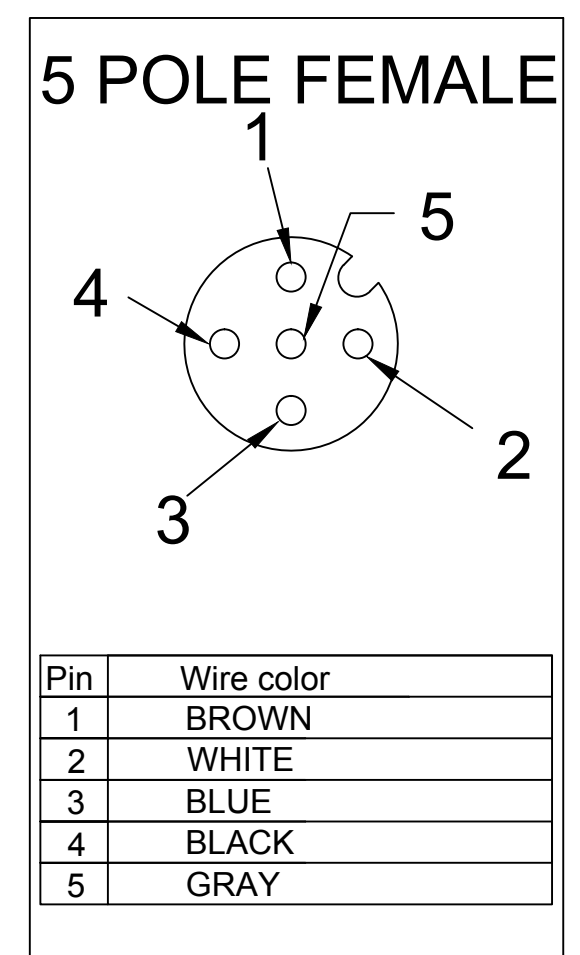
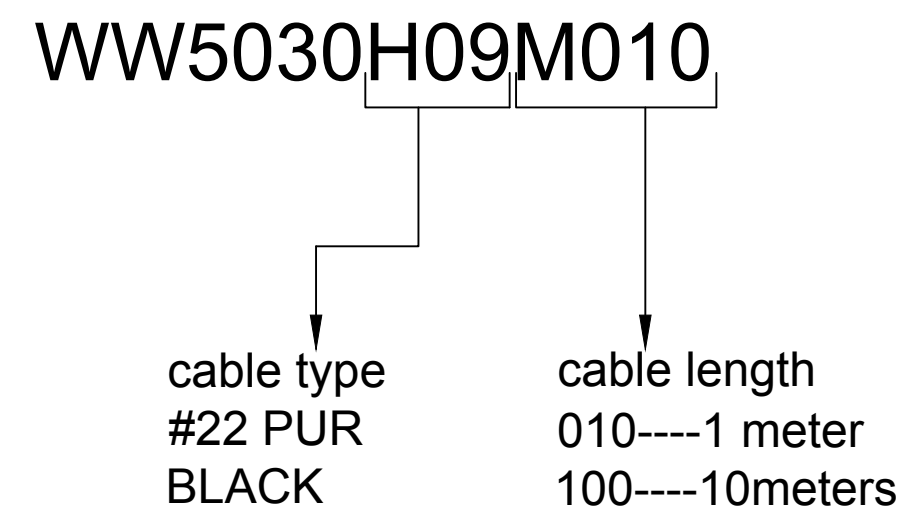
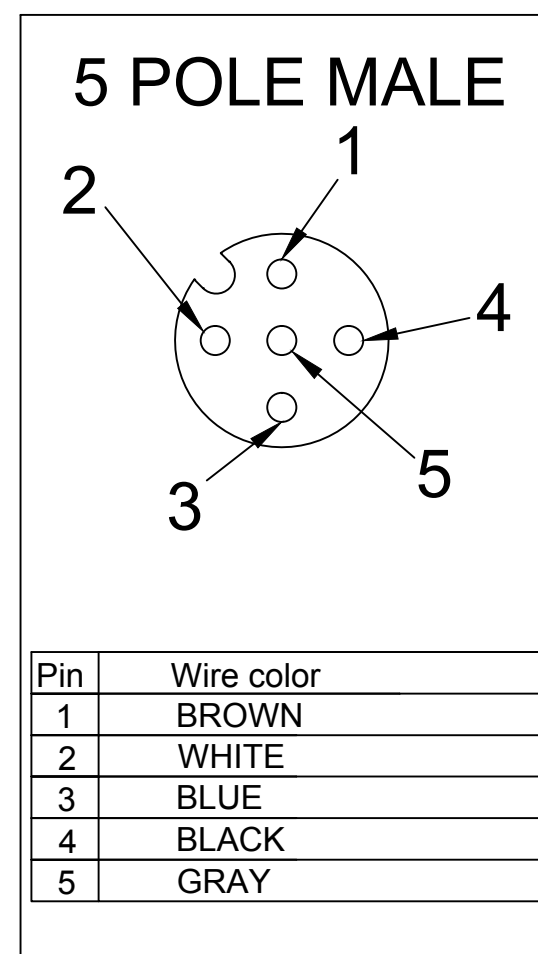
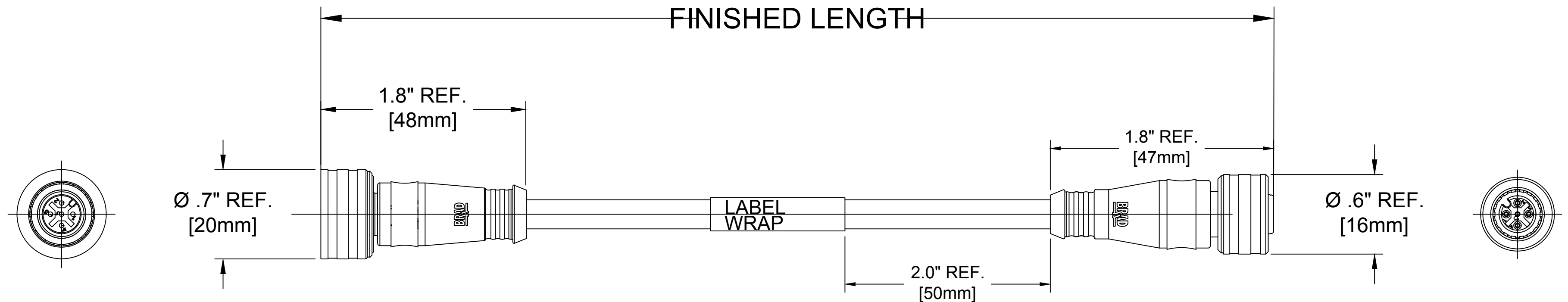
PART LIST

NO.	MOLEX PN	ENGINEERING NO.	LENGTH
1	1200808154	WW5030P82M020	2M
2	1200808155	WW5030P82M030	3M
3	1200808156	WW5030P82M050	5M
4	1200808157	WW5030P82M070	7M
5	1200808158	WW5030P82M100	10M
6	1200210002	WW4030E03M050	5M
7	1200800469	WW4030E03M010	1M
8	1200800470	WW4030E03M020	2M
9	1200805076	WW5030E03M010	1M
10	1200808016	WW5030E03M050	5M
11	1200805018	WW4030P03M020	2M
12	1200805022	WW4030P03M005	0.5M
13	1200805044	WW4030P03M006	0.6M
14	1200805049	WW5030P03M006	0.6M
15	1200805050	WW5030P03M010	1M
16	1200805051	WW5030P03M020	2M
17	1200808115	WW4030P03M018	1.8M
18	1200808133	WW5030P03M100	10M
19	1200805019	WW5030P03M050	5M
20	1200805048	WW4030P03M050	5M
21	1200805052	WW5030P03M030	3M
22	1200805053	WW5030P03M040	4M
23	1200808070	WW5030P03M050A	5M
24	1200808071	WW5030P03M020A	2M
25	1200805083	WW8030P02M010	1M
26	1200805096	WW8030P02M020	2M
27	1200808043	WW5030P02M003G	0.3M
28	1200805097	WW8030P02M050	5M
29	1200808072	WW8030P02M020A	2M
30	1200808073	WW8030P02M050A	5M
31	1200808129	WW8030P02M0208	2M

NO.	MOLEX PN	ENGINEERING NO.	LENGTH
32	1200808026	WW3030H09M010	1M
33	1200808031	WW4030H09M010	1M
34	1200808039	WW5030H09M010	1M
35	1200808107	WW5030H09M020	2M
36	1200808033	WW8030H08M010	1M
37	1200808139	WW8030H08M020	2M
38	1200808140	WW8030H08M050	5M
39	1200798157	WW5030E03M100	10M
40	1200798158	WW8030H08M100	10M
41	1200210001	WW4030E03M100	10M
42	1200808015	WW5030E03M020	2M

QUALITY SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION												
 = 0	2018/06/21 2018/06/27 2018/06/28 EC NO: 178454 DRWN: SSM CHK'D: CSM APPR: RSILLER A2	REV	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION UNITS		SCALE		 M12U-XP-FE-STR-XP-M-STR-XM					
 = 0			ANGULAR TOL ± 1.0 °		mm		1:1							
 = 0			4 PLACES ±		DRWN BY		DATE							
 = 0			3 PLACES ±		MKOWALCZYK01		2017/05/18							
 = 0			2 PLACES ± 0.05		CHK'D BY		DATE		PRODUCT CUSTOMER DRAWING					
 = 0			1 PLACE ± 0.3		APPR BY		DATE							
 = 0			0 PLACES ± 0.5		MIWASIECZKO		2017/05/31							
 = 0			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		DRAWING SIZE		THIRD ANGLE PROJECTION						SERIES	
 = 0					A4		 		120080		SEE MATRIX		GENERAL MARKET	
 = 0									DOCUMENT NUMBER		DOC TYPE		DOC PART	
 = 0							1200805076		PSD		00P		3 OF 3	

13	12	11	10	9	8	7	6	5	4	3	2	1
MATERIAL NUMBER		OLD PART NUMBER		FINISHED LENGTH								
1200808039		WW5030H09M010		1M +55.6mm -0 [3.3 FT. +2.2IN -0]								



SPECIFICATION DATA

COMPONENT	MATERIAL	FINISH
LABEL	MYLAR	BLACK/YELLOW
COUPLER	BRASS	NICKEL PLATED
CONTACT	COPPER ALLOY	Au OVER Ni
INSERT	PUR	BLACK
OVERMOLD	TPU	BLACK
CABLE #22	PUR	BLACK
VOLTAGE RATING:		300V
AMPERAGE RATING:		4A
PROTECTION CLASS:		IP67/68/69K
OPERATING TEMPERATURE:		-30°C / 80°C
CSA CERTIFICATIONS:		FILE NO. LR6837

RELEASE EC NO: IPG2014-0591 DRWN: GGUSTAFS 2013/09/24 CH'KD: BARDEN APPR: BWOODMAN2013/10/09 A		DESCRIPTION	QUALITY SYMBOL	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE NTS	DESIGN UNITS INCH	THIRD ANGLE PROJECTION		
			 =0									
			 =0									
				mm	INCH	DRAWN BY DATE		TITLE MICRO CHANGE ULTRA LOCK 5P MALE/FEMALE ST/ST #22 PUR				
			4 PLACES	±---	±---	GGUSTAFS 2013/09/24						
				3 PLACES	±---	±.005	CHECKED BY DATE					
				2 PLACES	±0.13	±.010	BARDEN 2013/11/28					
				1 PLACE	±0.25	±.020	APPROVED BY DATE		molex MOLEX INCORPORATED			
				ANGULAR ±.5°			BWOODMAN 2013/10/09					
				DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS			MATERIAL NO. SEE CHART		DOCUMENT NO. SD-120080-068		SHEET NO. 1 OF 1	
							SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				