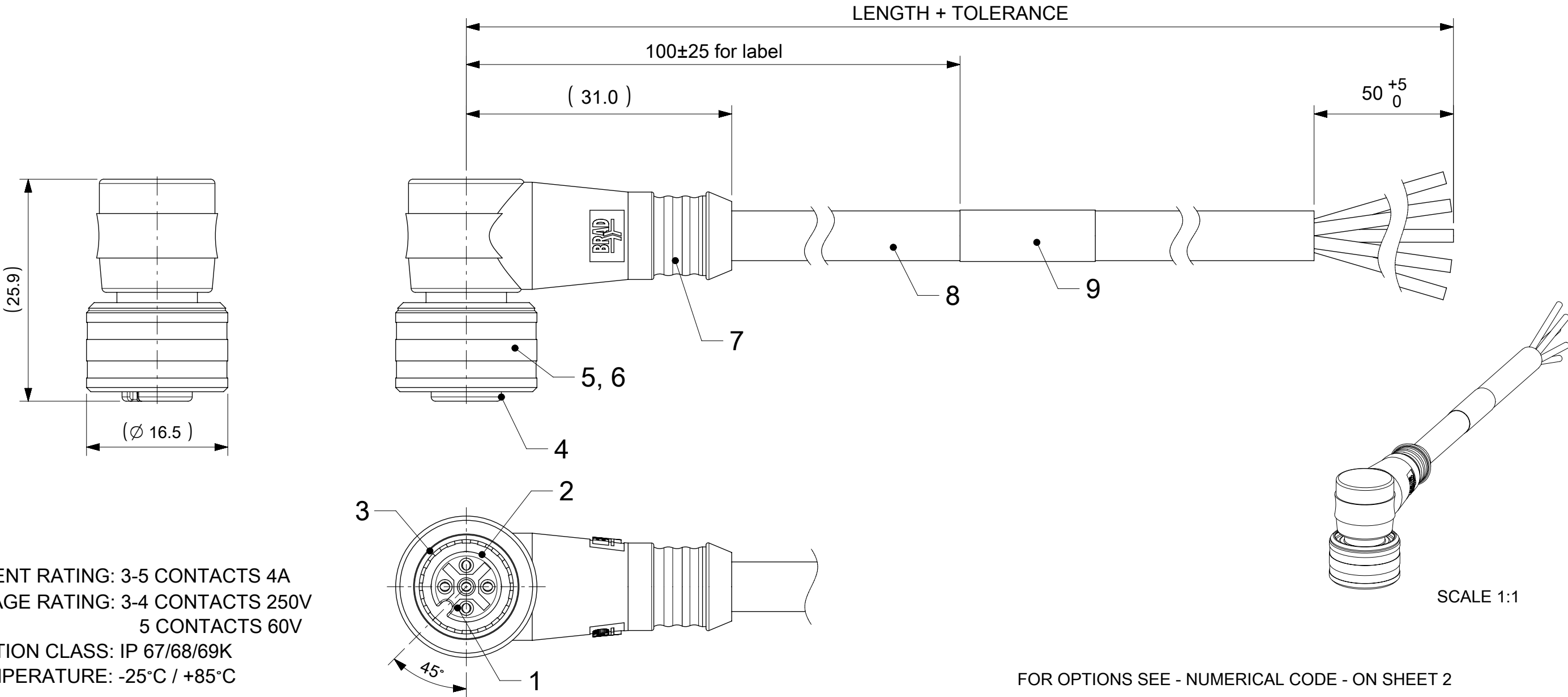


FEMALE PLUG ULTRA LOCK U12 90° ANGLED



NOTES:
CURRENT RATING: 3-5 CONTACTS 4A
VOLTAGE RATING: 3-4 CONTACTS 250V
5 CONTACTS 60V
PROTECTION CLASS: IP 67/68/69K
TEMPERATURE: -25°C / +85°C

CONTACTS POSITION FRONT VIEW:

3 CONTACTS		4 CONTACTS		5 CONTACTS	
PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN
2	---	2	WHITE	2	WHITE
3	BLUE	3	BLUE	3	BLUE
4	BLACK	4	BLACK	4	BLACK
5	---	5	---	5	GREY
CODING ACCORDING TO IEC 61076-2-101					

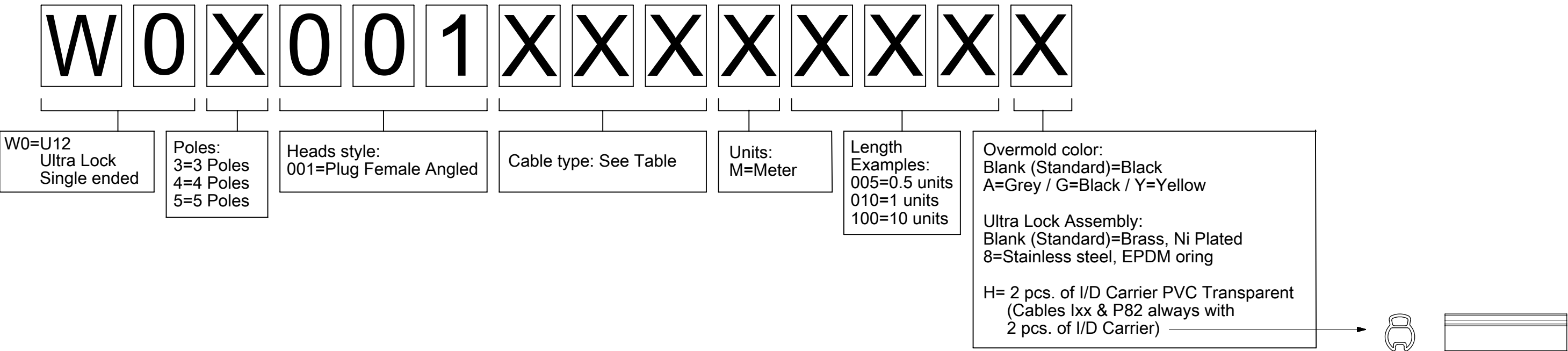
FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

9	1	LABEL YELLOW	VINYL	---
8	-	CABLE	SEE SHEET 2	---
7	-	OVERMOULD BLACK	TPU	---
6	1	SLEEVE U12 INNER	BRASS	NICKEL
5	1	SLEEVE U12 OUTER	BRASS	NICKEL
4	1	INSERT FEMALE BLACK	PUR	---
3	1	SPRING U12	V4A	---
2	1	ORING GREEN	FPM	---
1	3 / 4 / 5	CONTACT M12 FEMALE	BRONZE	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		CURRENT REV DESC: OBSOLETE PART NUMBERS AS PER PCN#506884		moLEX	
DIMENSION UNITS: mm		SCALE: 2:1		CSE U12 XP AC FE RA XM SE UNSH	
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 662770		PRODUCT CUSTOMER DRAWING	
ANGULAR TOL ± 1.0 °		DRWN: SUGEEB		DOCUMENT NUMBER	
4 PLACES ±		CHK'D: GGA		1200790281	
3 PLACES ±		APPR: GGA		PSD 000 A5	
2 PLACES ± 0.05		INITIAL REVISION:		SHEET NUMBER	
1 PLACE ± 0.3		DRWN: JMARSZALEK		1 OF 2	
0 PLACES ± 0.5		APPR: RSILLER			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION			
		DRAWING			
		SERIES			
		MATERIAL NUMBER			
		CUSTOMER			
		A3-SIZE			
		120079			
		SEE SHEET2			
		GENERAL MARKET			

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

OPTIONS



CABLE INFORMATION (for more information see Cable Data Sheet).

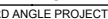
CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN	SHIELD
E03	3 / 4 / 5	0.34mm ²	PVC BLACK	UL 2464/1729	C22.2 I/II A/B 80°/300V	-30°C to +80°C, 10xO.D.	-10°C to +80°C, 15xO.D.	-	-
H09	3 / 4 / 5	0.34mm ²	PUR BLACK LS0H	UL 21198/10493	C22.2 I/II A/B 80°/300V	-40°C to +80°C, 5xO.D.	-25°C to +80°C, 10xO.D.	2 000 000 cycles, Temp max 60°C	-
P03	3 / 4 / 5	0.34mm ²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-

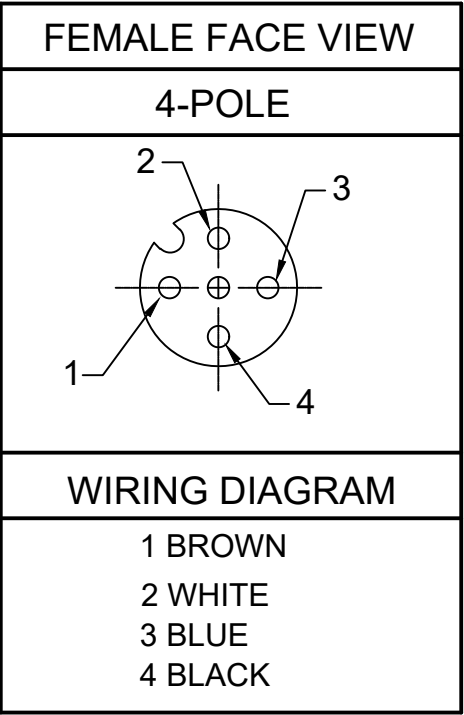
PART LIST

No.	Molex P/N	Engineering no.	Cable Length	No.	Molex P/N	Engineering no.	Cable Length
1	1200200003	W04001E03M005	0.5m	21	1200798051	W04001H09M020	2m
2	1200790269	W04001E03M020	2m	22	1200798100	W05001H09M350	35m
3	1200790272	W04001E03M100	10m	23	1200798122	W05001H09M030	3m
4	1200790281	W05001E03M020	2m	24	1200798143	W03001E03M020	2m
5	1200790282	W05001E03M040	4m	25	1200798144	W03001E03M050	5m
6	1200795042	W04001E03M050	5m	26	1200798145	W03001E03M100	10m
7	1200795044	W05001E03M050	5m	27	1200798159	W05001H09M050	5m
8	1200795071	W04001P03M040	4m	28			
9	1200795072	W04001P03M100	10m	29			
10	1200795073	W04001P03M060	6m	30			
11	1200795088	W05001P03M020	2m	31			
12	1200795089	W05001P03M040	4m	32			
13	1200795090	W05001P03M050	5m	33			
14	1200795091	W05001P03M060	6m	34			
15	1200795092	W05001P03M100	10m	35			
16	1200798007	W04001P03M050	5m	36			
17	1200798013	W04001P03M020	2m	37			
18	1200798040	W04001E03M010	1m	38			
19	1200798047	W03001H09M020	2m	39			
20	1200798048	W05001H09M020	2m	40			

CABLE LENGTH TOLERANCES

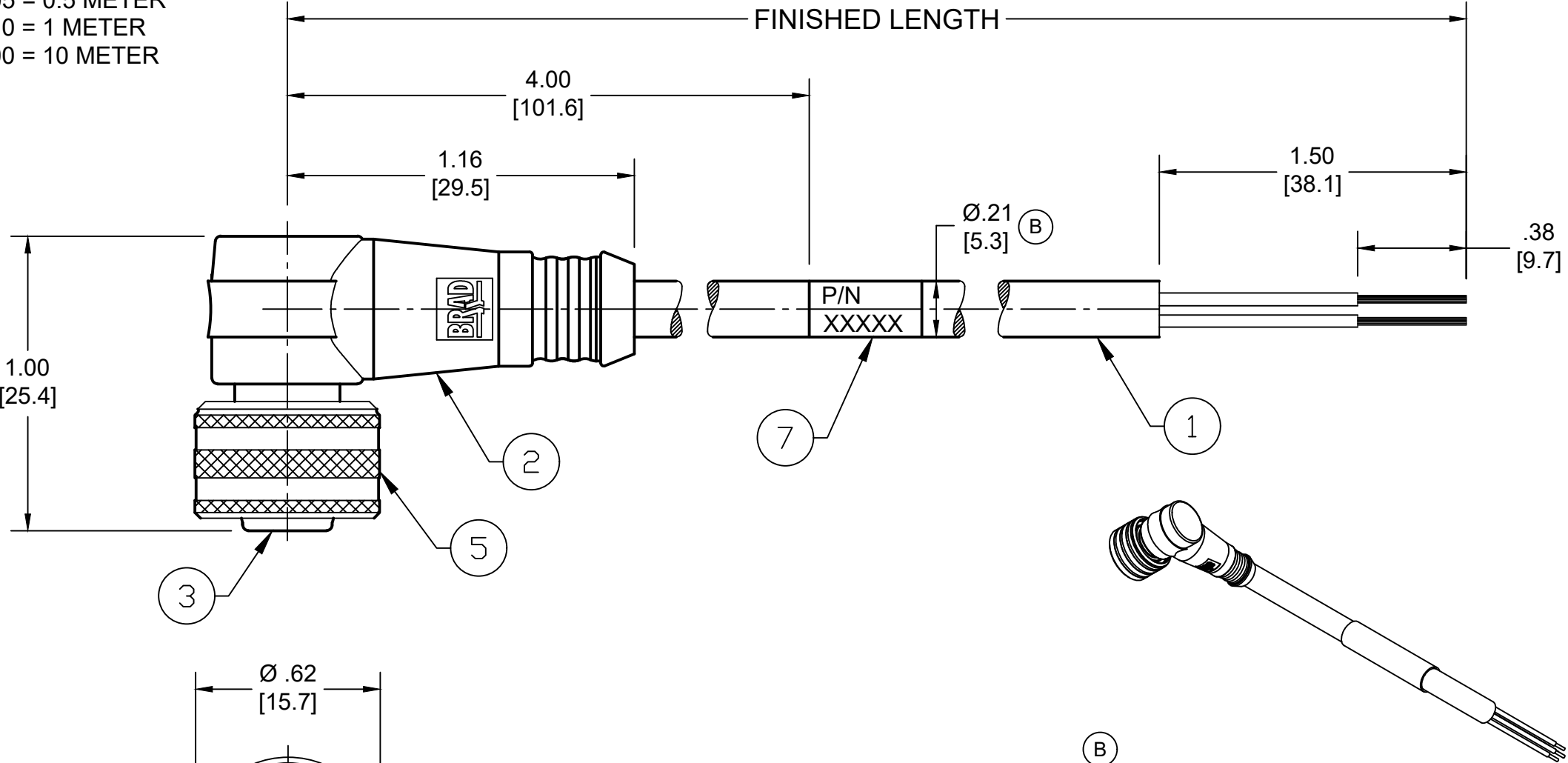
OVER	UP TO AND INCLUDING	TOLERANCES
0	305mm	+19mm
305mm	915mm	+45mm
915mm	1830mm	+56mm
1830mm	3660mm	+89mm
3660mm	7320mm	+165mm
7320mm	14640mm	+317mm
14640mm	30500mm	+610mm
30500mm	>	+2% of finished length

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DIMENSION UNITS mm		SCALE 1:1		CURRENT REV DESC: OBSOLETE PART NUMBERS AS PER PCN#506884		molex				
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 662770 DRWN: SUGEEB 2021/02/26 CHK'D: GGA 2021/06/02 APPR: GGA 2021/06/02		CSE U12 XP AC FE RA XM SE UNSH						
ANGULAR TOL ± 1.0°				PRODUCT CUSTOMER DRAWING						
4 PLACES ±				INITIAL REVISION:		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
3 PLACES ±				DRWN: JMARSZALEK 2016/06/22		1200790281		PSD	000	A5
2 PLACES ±	0.05	APPR: RSILLER 2016/06/29		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
1 PLACE ±	0.3	THIRD ANGLE PROJECTION		DRAWING		SERIES				
0 PLACES ±	0.5			A3-SIZE		120079		SEE SHEET2	GENERAL MARKET	2 OF 2
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										



PART NUMBER LEGEND
W04001K05M050

FINISHED LENGTH
M005 = 0.5 METER
M010 = 1 METER
M100 = 10 METER



NOTES:

1. MATERIAL: SEE TABLE

2. FINISH: SEE TABLE

3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A

4. TEMP RATING: -20°TO +105°C

5. PROTECTION: IP67/69K (WHEN MATED)

6. CSA CERTIFIED FILE: LR6837

7. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

MECHANICAL 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

7	WRAP LABEL	VINYL	BLACK/YELLOW
6	O-RING	VITON	GREEN
5	COUPLER	BRASS	NICKEL PLATED
4	CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	PUR	BLACK
2	OVERMOLD	TPC	YELLOW
1	#22/4 CABLE	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

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 ▽_A = 0 ▽_F = 0 ▽_P = 0 DIVISIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										molex MICRO-CHANGE ULTRA LOCK CORDSET, M12 4-POLE, FEMALE, 90DEG, SINGLE KEY, #22 AWG TPE HI-FLEX			
	DIMENSION UNITS INCH/MM		SCALE NTS		CURRENT REV DESC: ITEM #7 WAS PLASTIC FILM. ADDED ITEM #6CSA NUMBER, MECH CHARAC.....CABLE DIA, PN LEGEND & TOL CHART. MODIFIED TEMP RATING & PN TABLE									
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 702709 DRWN: ABENJAMINLW 2021/08/30 CHK'D: RSTONE 2022/04/11 APPR: BWOODMAN 2022/04/16						PRODUCT CUSTOMER DRAWING			
		mm	INCH											
	4 PLACES	±----	±----		INITIAL REVISION: DRWN: TWOLDEGE 2009/07/06 APPR: JFMURPHY 2009/07/20				DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION
	3 PLACES	±----	±----						SD-120079-010		PSD		001	B
	2 PLACES	±----	±----		ANGULAR TOL ± ---- °				MATERIAL NUMBER SEE CHART		CUSTOMER GENERAL MARKET		SHEET NUMBER 1 OF 1	
	1 PLACE	±----	±----											
	0 PLACES	±----	±----		THIRD ANGLE PROJECTION				DRAWING A3-SIZE		SERIES 120079			
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS													