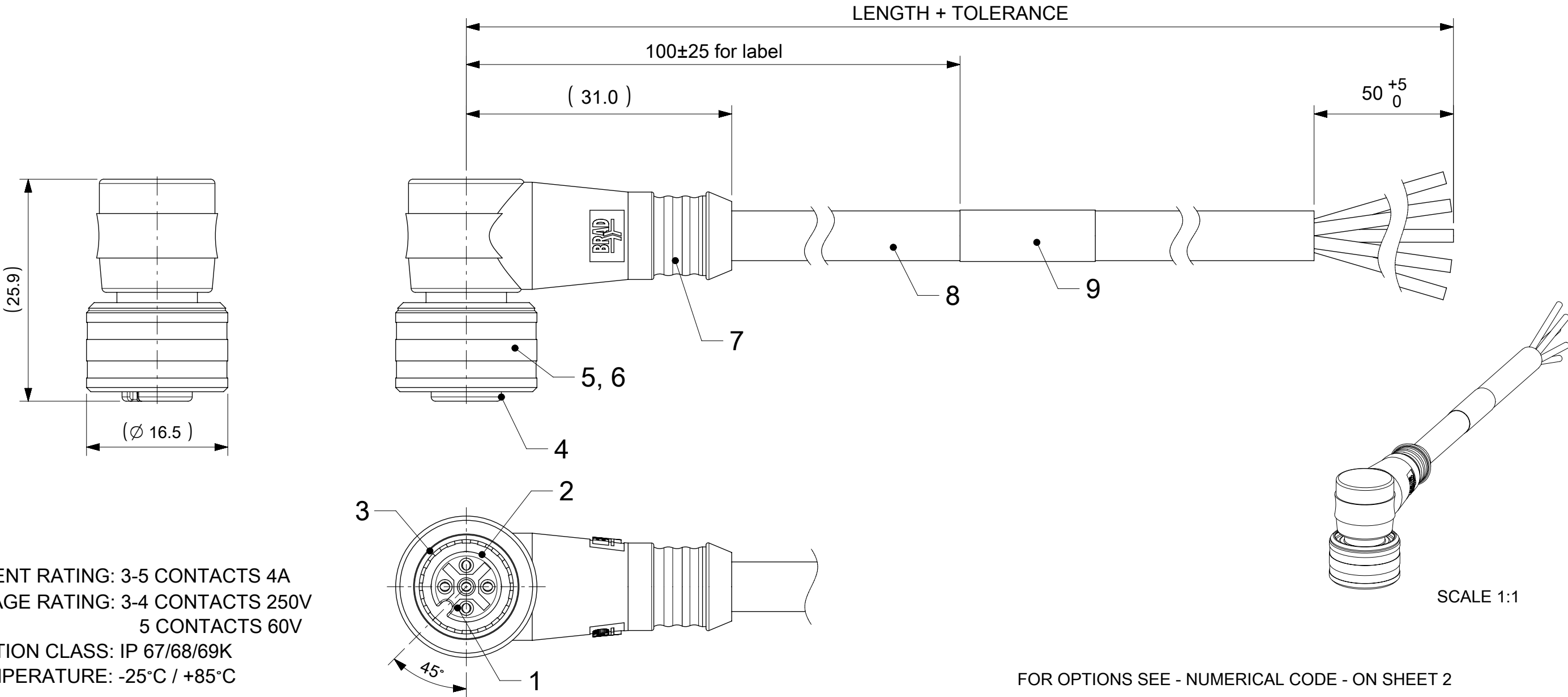


FEMALE PLUG ULTRA LOCK U12 90° ANGLED



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					

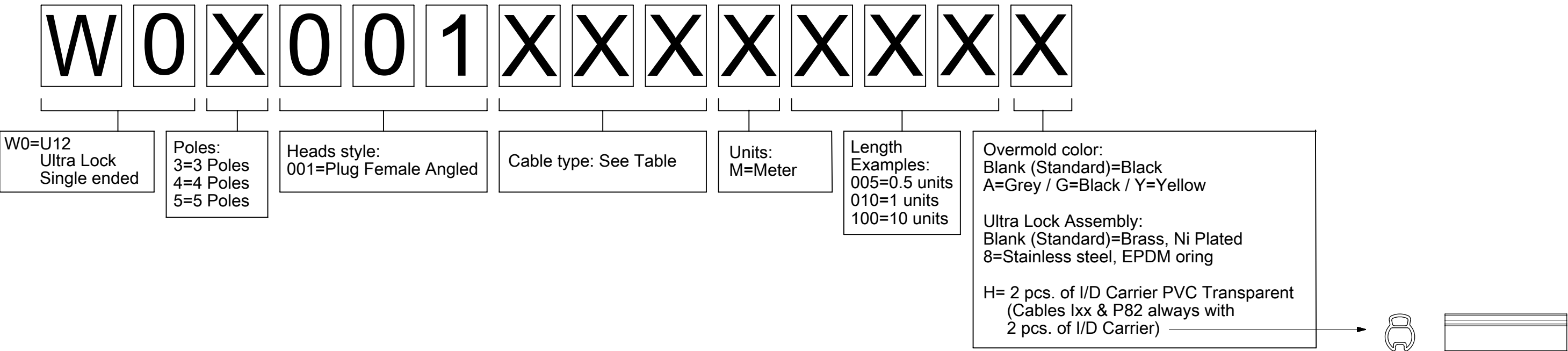
FOR OPTIONS SEE - NUMERICAL CODE - ON SHEET 2

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	
GENERAL TOLERANCES (UNLESS SPECIFIED)		EC NO: 662770		CSE U12 XP AC FE RA XM SE UNSH	
ANGULAR TOL ± 1.0 °		DRWN: SUGEEB		2021/02/26	
4 PLACES ±		CHK'D: GGA		2021/06/02	
3 PLACES ±		APPR: GGA		2021/06/02	
2 PLACES ± 0.05		INITIAL REVISION:		PRODUCT CUSTOMER DRAWING	
1 PLACE ± 0.3		DRWN: JMARSZALEK		DOCUMENT NUMBER	
0 PLACES ± 0.5		APPR: RSILLER		1200790281	
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DOC TYPE DOC PART REVISION	
		DRAWING		PSD 000 A5	
		A3-SIZE 120079		SHEET NUMBER	
		MATERIAL NUMBER		1 OF 2	
		SEE SHEET2			
		CUSTOMER			
		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.	-	-

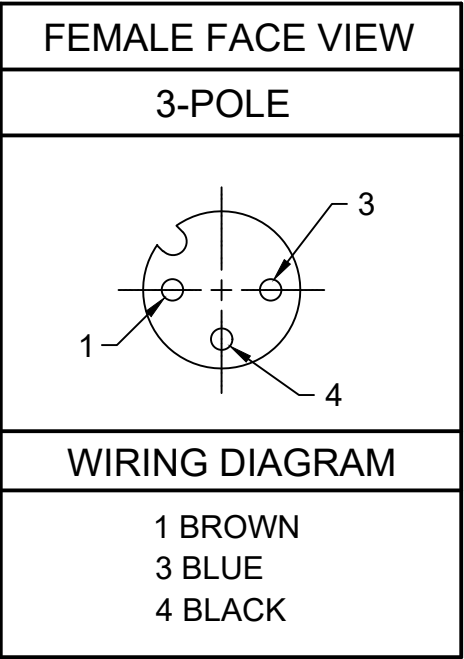
PART LIST

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

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		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 ±				DOCUMENT NUMBER				DOC TYPE	DOC PART	REVISION
3 PLACES ±				1200790281				PSD	000	A5
2 PLACES ± 0.05		INITIAL REVISION:		2016/06/29						
1 PLACE ± 0.3		DRWN: JMARSZALEK		2016/06/22						
0 PLACES ± 0.5		APPR: RSILLER		2016/06/29						
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		MATERIAL NUMBER		CUSTOMER		
				SERIES		SHEET NUMBER				
		A3-SIZE		120079		SEE SHEET2		GENERAL MARKET		
								2 OF 2		



PART NUMBER LEGEND
W03001K05M020

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

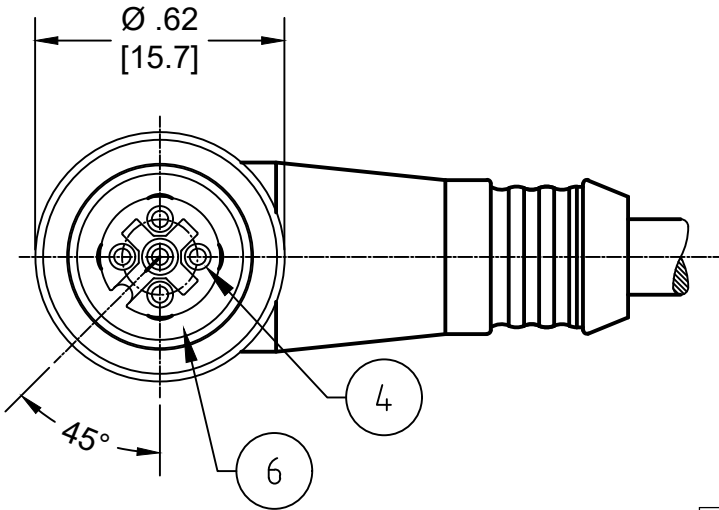
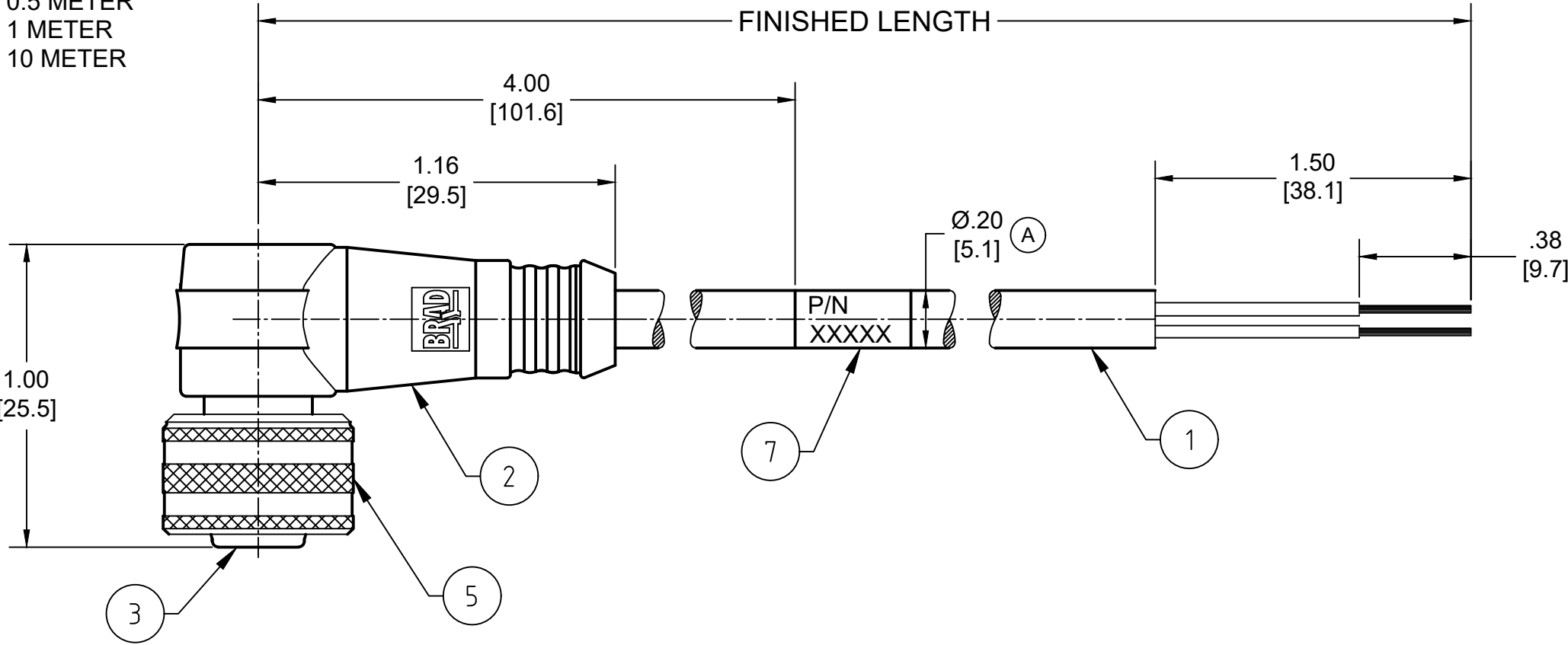
- NOTES:
- MATERIAL: AS NOTED
 - FINISH: AS NOTED
 - ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
 - TEMP RATING: -20°TO +105°C
 - PROTECTION: IP67/69K (WHEN MATED)
 - CSA CERTIFIED FILE: LR6837
 - ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

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	#22/3 CABLE	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

DOCUMENT STATUS P1 RELEASE DATE 2022/04/16 16:04:46



CABLE LENGTH TOLERANCES

<.3M [1FT]:	+19mm-0 [+1.75in-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 F A =0 F C =0 F E =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, #3 WAS NYLON & #7 WAS MYLAR. ADDED CSA, MECH CHARAC....CABLE DIA, PN LEGEND & TOL CHART. MODIFIED PN TABLE & FACE VIEW			molex							
	INCH/MM		NTS												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 702709 DRWN: ABENJAMINLW 2021/07/01 CHK'D: RSTONE 2022/04/11 APPR: BWOODMAN 2022/04/16			MICRO-CHANGE ULTRA LOCK, M12 3-POLE, FEMALE, 90DEG, SINGLE KEY, #22 AWG TPE HI-FLEX							
		mm		INCH											
	4 PLACES		±----	±----	PRODUCT CUSTOMER DRAWING										
	3 PLACES		±----	±----											
	2 PLACES		±----	±----											
	1 PLACE		±----	±----											
	0 PLACES		±----	±----	DOCUMENT NUMBER			DOC TYPE DOC PART REVISION							
ANGULAR TOL ± ---- °		THIRD ANGLE PROJECTION			DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS						A3-SIZE		120079		SEE CHART		GENERAL MARKET		1 OF 1	