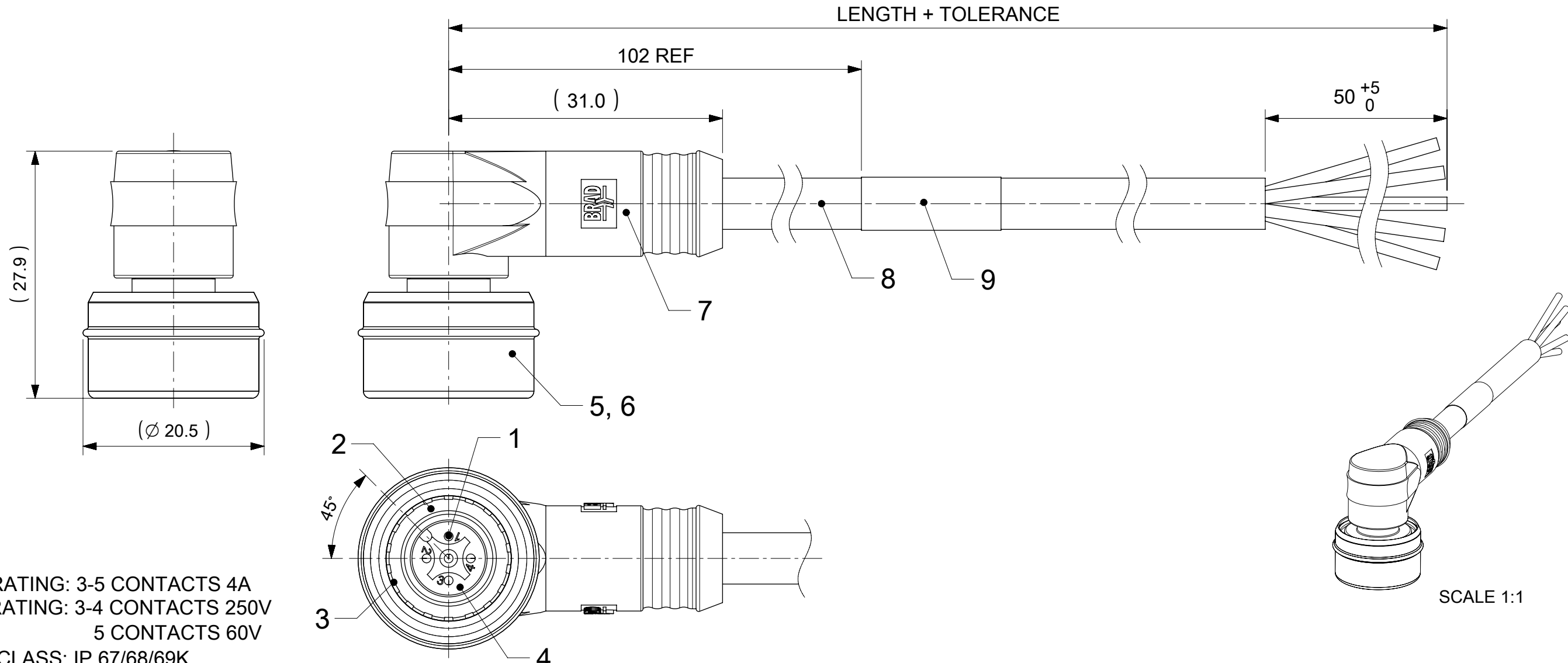


MALE PLUG ULTRA LOCK U12 90° ANGLED



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:

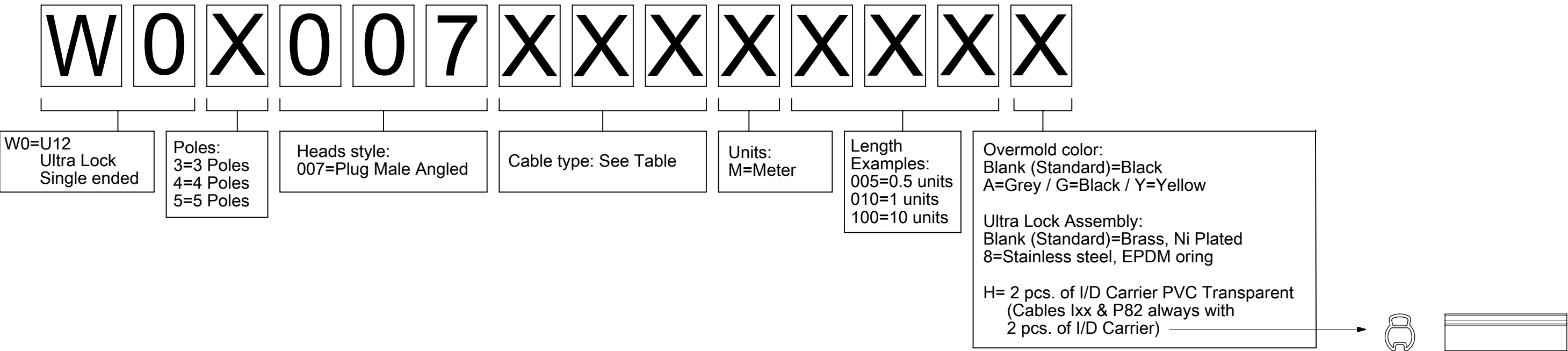
3 CONTACTS		4 CONTACTS		5 CONTACTS	
PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN
2	---	2	WHITE	2	WHITE
3	BLUE	3	BLUE	3	BLUE
4	BLACK	4	BLACK	4	BLACK
5	---	5	---	5	GREY
CODING ACCORDING TO IEC 61076-2-101					

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 MALE BLACK	PUR	---
3	1	SPRING U12	V4A	---
2	1	ORING GREEN	FPM	---
1	3 / 4 / 5	CONTACT M12 MALE	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	
	mm		2:1	
	CURRENT REV DESC: LABEL DIMENSION UPDATED			
	GENERAL TOLERANCES (UNLESS SPECIFIED)			
	ANGULAR TOL ± 1.0°			
	EC NO: 707722			
	DRWN: RSCHIEBER 2022/05/23			
	CHK'D: RSILLER 2022/05/25			
	APPR: RSILLER 2022/05/25			
	INITIAL REVISION:			
DIVISIONAL SYMBOLS	4 PLACES ±		2022/05/23	
	3 PLACES ±		2022/05/25	
	2 PLACES ± 0.05		2022/05/25	
	1 PLACE ± 0.3		2016/06/23	
	0 PLACES ± 0.5		2016/06/29	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	
	DRAWING		SERIES	
	A3-SIZE		120079	
	MATERIAL NUMBER		CUSTOMER	
	SEE PART LIST		GENERAL MARKET	
DOCUMENT NUMBER		DOC TYPE		
1200795111		PSD		
DOC PART		REVISION		
000		A5		
SHEET NUMBER		1 OF 2		

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	0.34mm²	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	0.34mm²	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	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
K05	4	0.34mm²	TPE/YELLOW						

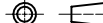
PART LIST

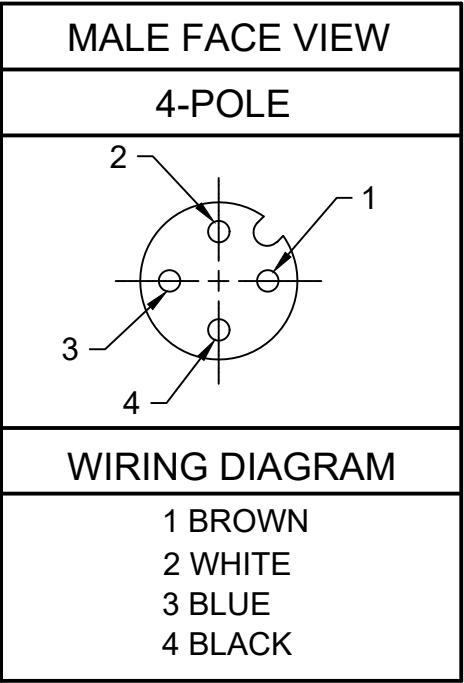
No.	Molex P/N	Engineering no.	Cable Length
1	1200200002	W03007P03M020	2m
2	1200795108	W04007E03M020	2m
3	1200795109	W04007P03M020	2m
4	1200795111	W05007E03M020	2m
5	1200795112	W05007P03M020	2m
6	1200798004	W04007E03M050	5m
7	1200798005	W04007P03M050	5m
8	1200798020	W04007P03M100	10m
9	1200798041	W03007H09M020	2m
10	1200798050	W05007H09M020	2m
11	1200798052	W04007H09M020	2m
12	1200798080	W05007E03M015	1.5m
13	1200798085	W05007E03M003	0.3m
14	1200798125	W05007E03M200	20m
15	1200795107	W03007E03M020	2m
16	1200798150	W03007E03M050	5m
17	1200798151	W03007E03M100	10m
18	1200798152	W04007E03M100	10m
19	1200798153	W05007E03M050	5m
20	1200798154	W05007E03M100	10m
21	1200798160	W05007H09M200	20m

No.	MOLEX P/N	ENGINEERING NO.	Cable Length
22	1200790181	W04007K05M060	6m
23	1200790192	W04007K05M020	2m
24	1200790194	W04007K05M050	5m
25	1200790196	W04007K05M100	10m
26	1200790208	W04007K05M040	4m

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

FUNCTIONAL SYMBOLS FA = 0 FE = 0 FF = 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: LABEL DIMENSION UPDATED					molex CSE U12 XP AC MA RA XM SE UNSH				
	mm		1:1											
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 707722 DRWN: RSCHIEBER 2022/05/23 CHK'D: RSILLER 2022/05/25 APPR: RSILLER 2022/05/25					PRODUCT CUSTOMER DRAWING				
	ANGULAR TOL ± 1.0 °													
	4 PLACES ±		INITIAL REVISION: DRWN: JMARSZALEK 2016/06/23 APPR: RSILLER 2016/06/29					DOCUMENT NUMBER		DOC TYPE		DOC PART	REVISION	
	3 PLACES ±							1200795111		PSD		000	A5	
	2 PLACES ± 0.05		DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS					MATERIAL NUMBER		CUSTOMER		SHEET NUMBER		
	1 PLACE ± 0.3							SEE PART LIST		GENERAL MARKET		2 OF 2		
	0 PLACES ± 0.5		THIRD ANGLE PROJECTION		DRAWING		SERIES							
				A3-SIZE		120079								



PART NUMBER LEGEND
W04007K05M020

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

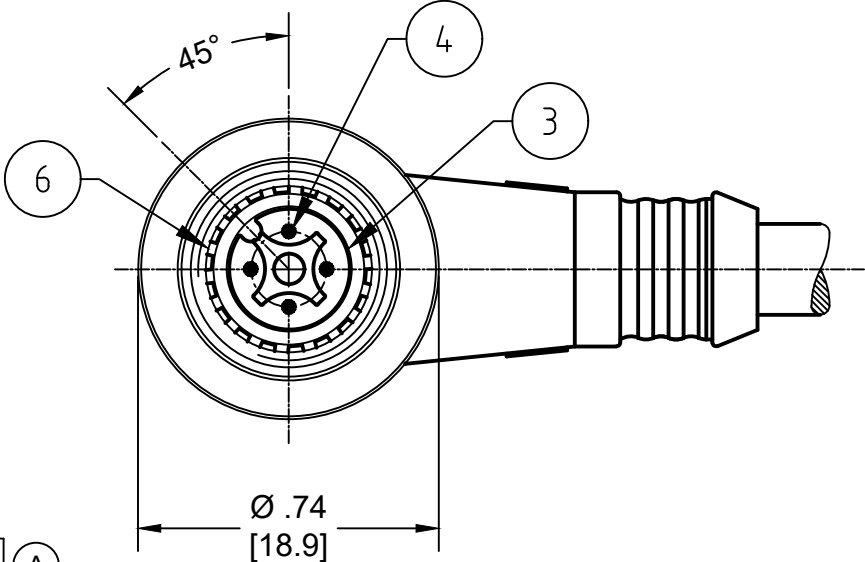
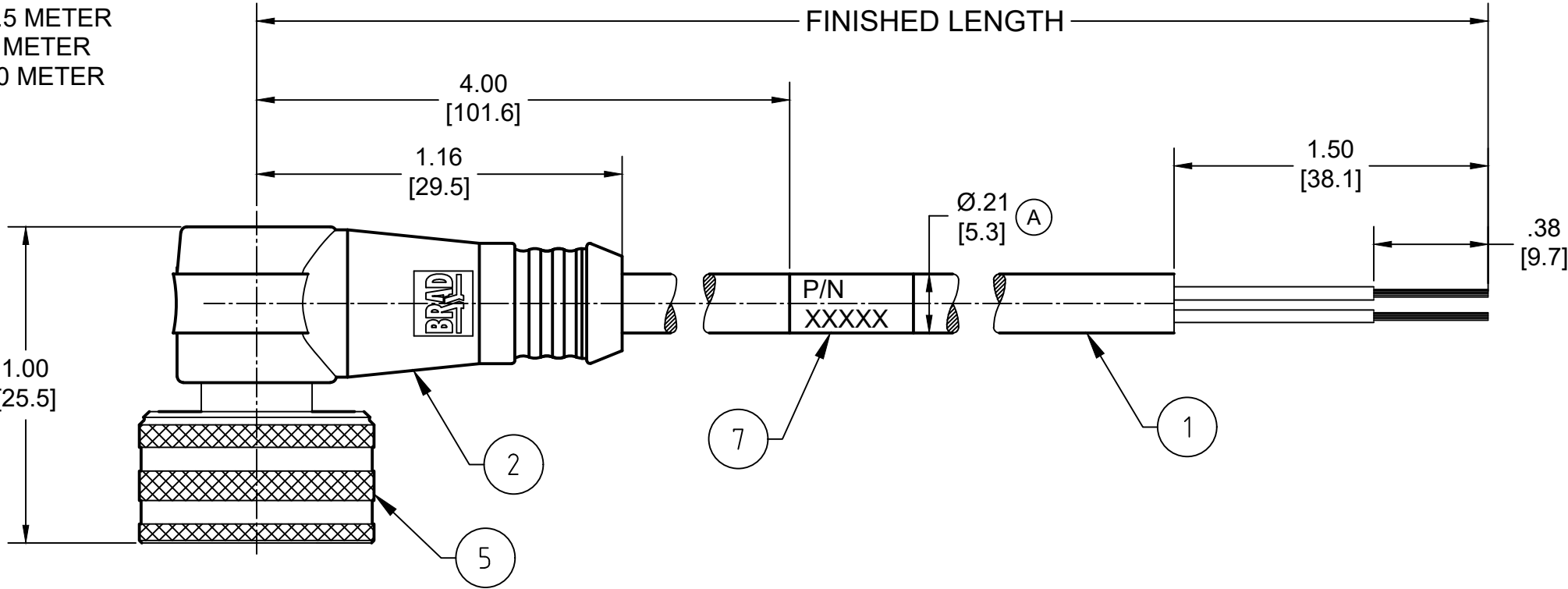
- NOTES:
1. MATERIAL: AS NOTED
 2. FINISH: AS NOTED
 3. ELECTRICAL:
VOLTAGE: 250V
CURRENT: 4A
 4. TEMP RATING: -20°TO +105°C
 5. PROTECTION: IP67/69K (WHEN MATED)
 6. CSA CERTIFIED FILE: LR6837
 7. ALL DIMENSIONS ARE FOR REFERENCE
UNLESS TOLERANCED OR NOTED OTHERWISE

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 PIN	COPPER ALLOY	GOLD OVER NICKEL
3	INSERT	PUR	BLACK
2	OVERMOLD	TPC	YELLOW
1	#22/4 CABLE	TPE JACKET	YELLOW
ITEM	DESCRIPTION	MATERIAL	FINISH

DOCUMENT STATUS	P1	RELEASE DATE	2022/04/16	16:04:45
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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 F A =0 F E =0 F P =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, 7 WAS MYLAR & 3 WAS NYLON. ADDED CSA, MECH CHARAC....CABLE DIA, PN MATRIX & TOL CHART. MODIFIED TEMP RATING & PN TABLE. REMOVED UL						molex				
	INCH/MM		NTS												
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 702709 DRWN: ABENJAMINLW 2021/07/28 CHK'D: RSTONE 2022/04/11 APPR: BWOODMAN 2022/04/16						MICRO-CHANGE ULTRA LOCK 4-POLE, MALE, 90DEG, SINGLE KEY, #22 AWG TPE HI-FLEX				
	mm		INCH												
	4 PLACES		±----	±----											
	3 PLACES		±----	±----											
	2 PLACES		±----	±0.01											
	1 PLACE		±0.3	±----	INITIAL REVISION:						PRODUCT CUSTOMER DRAWING				
	0 PLACES		±----	±----	DRWN: LSTEMMLE 2010/02/12 APPR: FPACHER 2010/02/15										
ANGULAR TOL ± ---- °				DOCUMENT NUMBER						DOC TYPE					DOC PART
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
						A3-SIZE		120079		SEE CHART		GENERAL MARKET		1 OF 1	