

PIN	WIRE COLOR
1	BN
2	-
3	BU
4	BK
5	-

A top-down view of a circular 4-pin connector. The connector has four pins arranged in a cross pattern. The pins are labeled as follows: PIN 1 is the top pin, PIN 2 is the right pin, PIN 3 is the bottom pin, and PIN 4 is the left pin. Arrows point from the labels to their respective pins.

A diagram of a 5-pin circular connector. The connector is shown from a top-down perspective, revealing five pins arranged in a circular pattern. Each pin is labeled with a number: PIN 1 (top-left), PIN 2 (top-right), PIN 3 (bottom-right), PIN 4 (bottom-left), and PIN 5 (center). The pins are connected to a central hub.

Y C

Y0= ULTRA LOCK 2.0
SINGLE ENDED

X

POLES:
3 = 3 POLES
4 = 4 POLES
5 = 5 POLES

0

HEADER:
001= FEMALE RA

0

1

X

X

X

☒

11

2

10

OPTIONS

☒

X

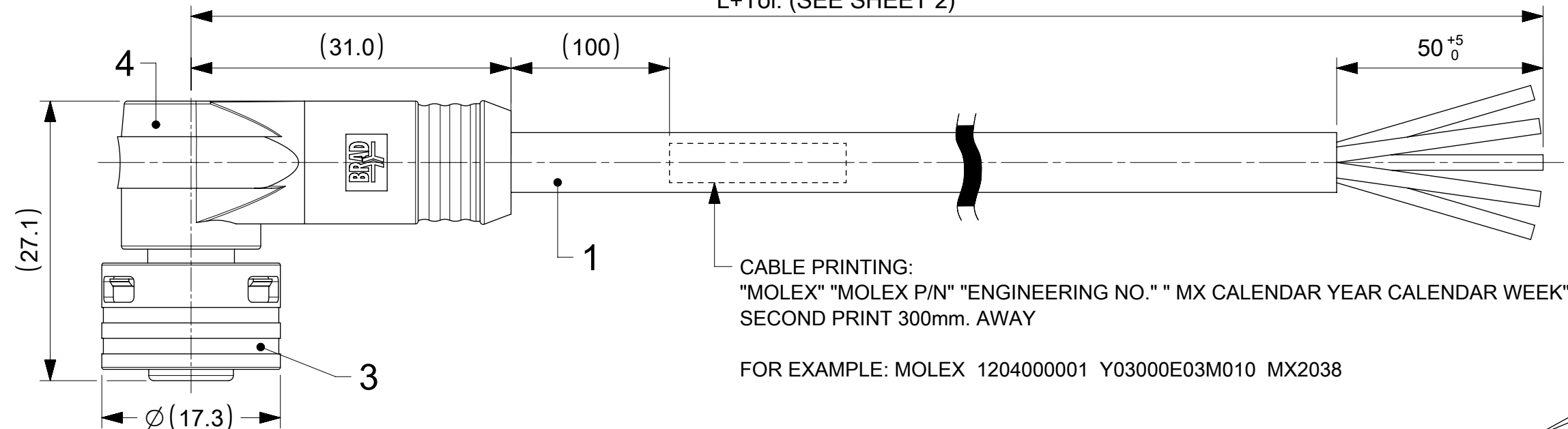
CABLE:
E03 - 3/4/5x0.34 PVC BLACK
B30 - 3/4/5x0.34 WSOR BLACK
H09 - 3/4/5x0.34 PUR-LS0H BLACK

UNIT:
M = METER
F = FEET
C = CENTIMETER
T = 10M

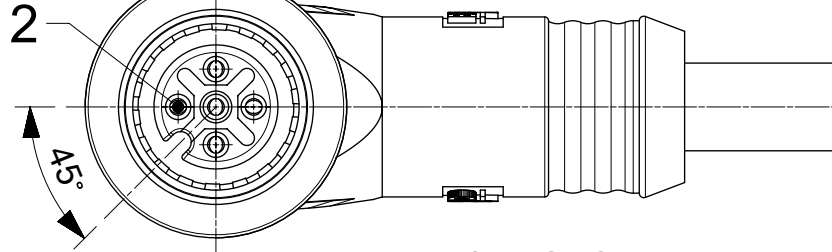
LENGTH:
EXAMPLE:
010 = 1 m
050 = 5 m
100 = 10 m

OVERMOLD:
 BLANK = STANDARD BRAD:
 -YELLOW IN THE USA
 -BLACK IN EUROPE
 A = GREY
 E = RED
 G = BLACK
 Y = YELLOW
 H = STD. COLOUR WITH TWO
 ID-TAG CARRIERS

L+Tol. (SEE SHEET 2)



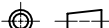
1. PARTS ACC. TO PRODUCT SPECIFICATION
1204000001 PS P10 AND IN STYLE
OF IEC-61076-2-010
2. BOM & PART LIST - SEE SHEET 2
3. RATED VOLTAGE :
3, 4 CONTACTS: 250V AC OR DC
5 CONTACTS: 60V AC OR DC
RATED CURRENT:
3, 4, 5 CONTACTS: 4A, DERATING HAS TO BE CONSIDERED
OVERVOLTAGE CATEGORY: 3
POLLUTION DEGREE: 3, ONLY IN MATED AND LOCKED CONDITION
4. PROTECTION CLASS: IP 67, ONLY IN MATED AND LOCKED CONDITION
5. TEMPERATURE RANGE:
TEMPERATURE PLUG/SOCKET: -40 °C TO +85 °C
TEMPERATURE CABLE: SEE CABLE LIST
6. MECHANICAL OPERATIONS: 100 CYCLES
7. MATES WITH ULTRA-LOCK M12 MALE RECEPTACLES
- 8.. PACKAGING: THE CORDSETS ARE SINGLE PACKED IN PLASTIC BAGS AND DELIVERED IN CARTON BOXES
9. UL CSA FILE REGISTRATION PENDING



5 POLE SHOWN

FOR EXAMPLE: MOLEX 1204000001 Y03000E03M010 MX2038

SCALE 1:1

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: NOTES AND CABLE LIST UPDATED				molex CSE U12 3-5P AC FE RA XM SE UNSH BK			
	mm	2:1								
	GENERAL TOLERANCES (UNLESS SPECIFIED)									
ANGULAR TOL ± 1.0 °										
DIVISIONAL SYMBOLS	4 PLACES	±	EC NO: 736602				PRODUCT CUSTOMER DRAWING			
	3 PLACES	±	DRWN: RSCHIEBER 2023/01/23							
	2 PLACES	± 0.05	CHK'D: RSILLER 2023/01/31							
	1 PLACE	± 0.3	APPR: RSILLER 2023/01/31							
	0 PLACES	± 0.5	INITIAL REVISION:							
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER		
			A3-SIZE	120400	SEE SHEET 2	GENERAL MARKET	1 OF 2			

10	9	8	7	6	5	4	3	2	1										
PART LIST																			
MOLEX NO.	ENGINEERING NO.	LENGHT (MM)	MOLEX NO.	ENGINEERING NO.	LENGHT (MM)	MOLEX NO.	ENGINEERING NO.	LENGHT (MM)											
1204000200	Y03001E03M010	1000	1204000223	Y04001H09M100	10000														
1204000201	Y03001E03M020	2000	1204000224	Y05001E03M010	1000														
1204000202	Y03001E03M050	5000	1204000225	Y05001E03M020	2000														
1204000203	Y03001E03M100	10000	1204000226	Y05001E03M050	5000														
1204000204	Y03001B30M010	1000	1204000227	Y05001E03M100	10000														
1204000205	Y03001B30M020	2000	1204000228	Y05001B30M010	1000														
1204000206	Y03001B30M050	5000	1204000229	Y05001B30M020	2000														
1204000207	Y03001B30M100	10000	1204000230	Y05001B30M050	5000														
1204000208	Y03001H09M010	1000	1204000231	Y05001B30M100	10000														
1204000209	Y03001H09M020	2000	1204000232	Y05001H09M010	1000														
1204000210	Y03001H09M050	5000	1204000233	Y05001H09M020	2000														
1204000211	Y03001H09M100	10000	1204000234	Y05001H09M050	5000														
1204000212	Y04001E03M010	1000	1204000235	Y05001H09M100	10000														
1204000213	Y04001E03M020	2000																	
1204000214	Y04001E03M050	5000																	
1204000215	Y04001E03M100	10000																	
1204000216	Y04001B30M010	1000																	
1204000217	Y04001B30M020	2000																	
1204000218	Y04001B30M050	5000																	
1204000219	Y04001B30M100	10000																	
1204000220	Y04001H09M010	1000																	
1204000221	Y04001H09M020	2000																	
1204000222	Y04001H09M050	5000																	
CABLE LIST																			
3P	4P	5P	CABLE TYPE	DESCRIPTION	MATERIAL	FINISH/COLOR	FIXED INSTALLATION *		FLEXIBLE INSTALLATION **		DRAG CHAIN								
							MIN.	MAX.	MIN.	MAX.	MIN.	MAX.							
X			E03	CABLE PVC, BLK 3X0.34MM D4.9	PVC	BLACK	-30°C	+80°C	-10°C	+80°C	NOT SUITABLE								
	X			CABLE PVC, BLK 4X0.34MM D5.4															
		X		CABLE PVC, BLK 5X0.34MM(UL/CSA) D5.8															
X			B30	CABLE 3X0.34 TPU BK D4.80 TPE UNSH DCS	PUR WSOR	BLACK	-40°C	+90°C	-25°C	+80°C	-5°C	+60°C							
	X			CABLE 4X0.34 TPU BK D5.10 TPE UNSH DCS															
		X		CABLE 5X0.34 TPU BK D5.50 TPE UNSH DCS															
X			H09	CABLE PUR;BLK 3X0.34MM-LSOH;UL D4.4	PUR-LS0H	BLACK	-40°C	+80°C	-25°C	+80°C	+5°C	+60°C							
	X			CABLE PUR;BLK 4X0.34MM-LSOH;UL D4.7															
		X		CABLE PUR BLK 5X0.34MM LSZH UL D5.0															
* FIXED POSITION WITHOUT ACCIDENTAL CRUSHING OF VIBRATION.																			
** FREE MOTION WITHOUT PERIODIC RECURRENCE OR FORCED GUIDANCE.																			
BILL OF MATERIAL																			
3P	4P	5P	ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR												
X	X	X	1	-	CABLE	SEE CABLE LIST	SEE CABLE LIST												
X	X	X	2	3/4/5	CONTACT 10 FE STA AU CR WRA 0.14-0.50	BRASS	GOLD OVER NICKEL PLATED												
X			3	1	PLG U12 3P AC FE PA UNSH	-	-												
	X				PLG U12 4P AC FE PA UNSH														
		X			PLG U12 5P AC FE PA UNSH														
X	X	X	4	1	OVERMOLD	TPC	SEE MATRIX												
IF "H" IS IN MATRIX-END			-	2	I/D CARRIER DIA 4-7MMX30MM	PVC	TRANSPARENT												
DOCUMENT STATUS		P1	RELEASE DATE		2023/01/31	08:21:32													
0		9		8		7		6		5		4		3		2		1	

CABLE LENGTH TOLERANCES	
LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% 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: NOTES AND CABLE LIST UPDATED EC NO: 736602 DRWN: RSCHIEBER 2023/01/23 CHK'D: RSILLER 2023/01/31 APPR: RSILLER 2023/01/31 INITIAL REVISION: DRWN: RSCHIEBER 2020/09/16 APPR: RSILLER 2020/09/29					
	mm		1:1							
	GENERAL TOLERANCES (UNLESS SPECIFIED)									
	ANGULAR TOL		±	1.0 °	DOCUMENT NUMBER 1204000224 DOC TYPE PSD DOC PART 000 REVISION A3					
	4 PLACES		±							
	3 PLACES		±							
	2 PLACES		±	0.05						
	1 PLACE		±	0.3						
	DIVISIONAL SYMBOLS	0 PLACES		±	0.5	MATERIAL NUMBER 120400 CUSTOMER GENERAL MARKET SHEET NUMBER 2 OF 2				
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS										
THIRD ANGLE PROJECTION		DRAWING A3-SIZE								

CABLE LENGTH TOLERANCES	
LENGTH	TOLERANCE
0m-1m	+40 mm
>1m-5m	+60 mm
>5m-10m	+80 mm
>10m-20m	+140 mm
>20m-30m	+160 mm
>30m	+1% length

FUNCTIONAL SYMBOLS FA= 0 FE= 0 FE= 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: NOTES AND CABLE LIST UPDATED			molex CSE U12 3-5P AC FE RA XM SE UNSH BK				
	mm		1:1									
	GENERAL TOLERANCES (UNLESS SPECIFIED)				EC NO: 736602 DRWN: RSCHIEBER 2023/01/23 CHK'D: RSILLER 2023/01/31 APPR: RSILLER 2023/01/31			PRODUCT CUSTOMER DRAWING				
	ANGULAR TOL ± 1.0 °											
	4 PLACES		±									
	3 PLACES		±									
	2 PLACES		± 0.05									
	1 PLACE		± 0.3		INITIAL REVISION: DRWN: RSCHIEBER 2020/09/16 APPR: RSILLER 2020/09/29			DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
	0 PLACES		± 0.5					1204000224		PSD	000	A3
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
					A3-SIZE	120400	SEE PART LIST		GENERAL MARKET		2 OF 2	