

PART No MATRIX

OPTIONS :

8 8 4 0 P 6 X X X M X X X X X

88 = M12x1
DOUBLE ENDED

POLES:
4 = 4 Poles

HEAD STYLE:
0P6 = Female Straight PNP
LED / Male Straight

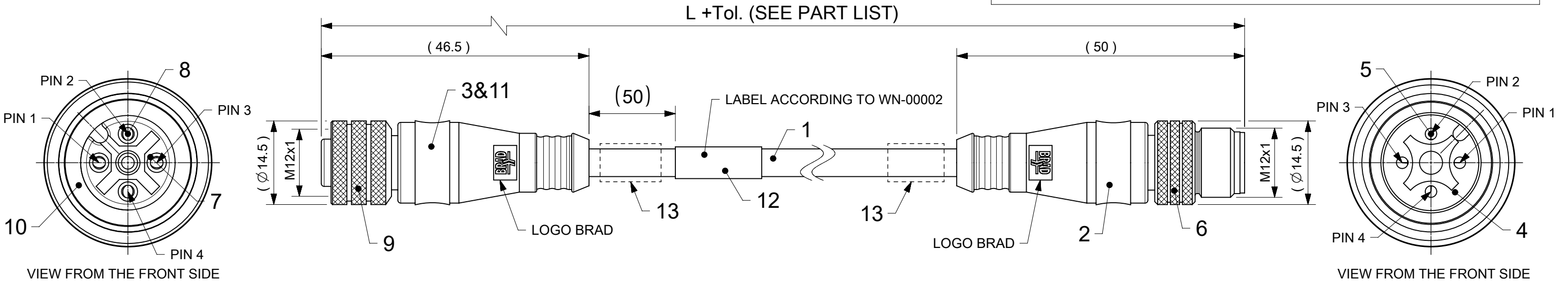
CABLE TYPE
SEE TABLE 1

UNITS:
M = Meter

LENGTH EXAMPLES:
005 = 0.5 m
010 = 1 m
020 = 2 m
050 = 5 m
100 = 10 m
150 = 15 m
200 = 20 m

H = 2 PCS. OF I/D CARIERR
FOR CABLE lxx & P82
COUPLIN NUT:
BLANK = KNU
& 3=Knurled Brass Ni Plated
1 = Hexagonal Stainless steel
5 = Knurled Derlin
7 = Knurled Brass Ni Plated, Teflon Coated
Blank =7
for cables:
I20, I26, K03, K05, P82, S26
8=Type 316 stainless steel
9 = Hexagonal Brass Ni Plated SW13

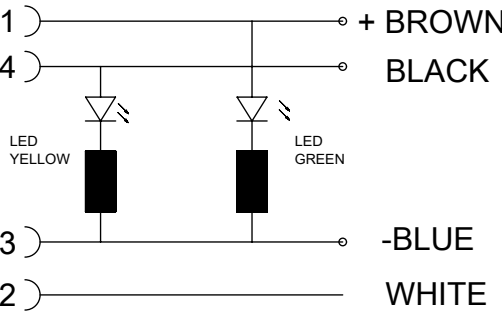
Overmold color:
Blank (Standard)= TPU:
FEMALE -CLEAR
MALE - BLACK
YELLOW FOR CABLES
A09, S19, S20, S26, K03, K05
A= GY
G= BK
Y= YE



BOM

13	SEE MATRIX	I/D CARRIER (SEE MATRIX)	PVC	TRANSPARENT
12	1	LABEL WRAP	VINYL	YELLOW
11	1	PNP LED PCB	-	-
10	1	GASKET	FPM	RED
9	1	M12 FEMALE COUPLING NUT	SEE MATRIX	SEE MATRIX
8	4	CONTACT 10 FE	BRONZE	GOLD OVER Ni-PLATED
7	1	INSERT M12 FE 4P	TPU	BLACK
6	1	M12 MALE COUPLING NUT	SEE PN MATRIX	SEE PN MATRIX
5	4	CONTACT 10 MA	BRONZE	GOLD OVER Ni-PLATED
4	1	INSERT M12 MA 4P	ELASTOLLAN	BLACK
3		MOULDING MATERIAL	TPU	TRANSPARENT
2	-	MOULDING MATERIAL	TPU	SEE PN MATRIX
1	-	CABLE	SEE CABLE LIST	
ITEM	QTY	DESCRIPTION	MATERIAL	FINISH/COLOR
DOCUMENT STATUS	P1	RELEASE DATE	2022/11/30	11:33:41

PNP WIRING DIAGRAM



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: OBSOLETE PART NUMBER AS PER PCN#510807.				molex			
mm		1.5:1									
GENERAL TOLERANCES (UNLESS SPECIFIED)				CSE M12 LED PNP 4P AC FE STR PUR MA STR XM							
ANGULAR TOL ± 1.0 °											
4 PLACES		±								EC NO: 726454	
3 PLACES		±		DRWN: LIKITV		2022/09/28					
2 PLACES		± 0.05		CHK'D: GGA		2022/11/30					
1 PLACE		± 0.3		APPR: GGA		2022/11/30					
0 PLACES		± 0.5		INITIAL REVISION:				PRODUCT CUSTOMER DRAWING			
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS				DRWN: MDHARMANTI		2020/06/02		DOCUMENT NUMBER			
				APPR: RSILLER		2020/06/04		1200678091			
								PSD			
				THIRD ANGLE PROJECTION		DRAWING		DOC TYPE			
				A3-SIZE		SERIES		DOC PART			
				120067		MATERIAL NUMBER		REVISION			
						SEE PART LIST		A2			
						CUSTOMER		SHEET NUMBER			
						GENERAL MARKET		1 OF 2			

10	9	8	7	6	5	4	3	2	1
TABLE 1									
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.	-	-
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	-
P03	3 / 4 / 5	0.34mm²	PUR / PVC BLACK	-	-	-30°C to +80°C, 7xO.D.	-5°C to +80°C, 15xO.D.	-	-
P82	3 / 4 / 5	0.34mm²	PUR IRR ORANGE	-	-	-50°C to +105°C, >5xO.D.	-40°C to +105°C, >7.5xO.D.	-	-

ELECTRICAL DATA :
VOLTAGE RATING : 250V
AMPERAGE RATING : 4A
INSULATION RESISTANCE : 10⁸Ω MIN.
MATING CYCLES : MIN. 100
ENVIRONMENTAL :
IP PROTECTION CLASS : IP67
OPERATING TEMPERATURE : SEE TABLE 1

TABLE OF LENGHT TOLERANCES

OVER	UP TO AND INCLUDING	TOLERANCE
0	305	+19
305	915	+45
915	1830	+56
1830	3660	+89
3660	7320	+165
7320	14640	+317
14640	30500	+610
30500	>	+2% OF LENGTH

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DIMENSION UNITS	SCALE	CURRENT REV DESC: OBSOLETED PART NUMBER AS PER PCN#510807.		mo lex CSE M12 LED PNP 4P AC FE STR PUR MA STR XM PRODUCT CUSTOMER DRAWING				
mm	1:1							
GENERAL TOLERANCES (UNLESS SPECIFIED)								
ANGULAR TOL	± 1.0 °							
4 PLACES	±	EC NO: 726454 DRWN: LIKITV 2022/09/28						
3 PLACES	±	CHK'D: GGA 2022/11/30						
2 PLACES	± 0.05	APPR: GGA 2022/11/30						
1 PLACE	± 0.3	INITIAL REVISION: DRWN: MDHARMANTI 2020/06/02		DOCUMENT NUMBER		DOC TYPE	DOC PART	REVISION
0 PLACES	± 0.5	APPR: RSILLER 2020/06/04		1200678091		PSD	000	A2
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER		SHEET NUMBER
			A3-SIZE	120067	SEE PART LIST	GENERAL MARKET		2 OF 2

NOTE:
1. IF IN MATRIX IS "H" - ADD ID-CARRIERS
ON THE BOTH SIDES HARNESS.

PART LIST

Lp.	MOLEX PN	ENGINEERING No	L+Tol. [mm]
1	1200675241	8840P6E03M010	1000
2	1200678090	8840P6E03M030	3000
3	1200678183	8840P6P03M006	600
4	1200678195	8840P6P03M020	2000
5	1200678255	8840P6P03M010	1000
6	1200678256	8840P6P03M030	3000
7	1200678257	8840P6P03M050	5000
8	1200678333	8840P6H09M010	1000
9	1200678447	8840P6E03M020	2000
10	1200678448	8840P6E03M050	5000
11	1200678449	8840P6E03M100	10000