

* ADD 2xID CARRIER FOR CABLE I02 OR FOR PN WITH "H" AT THE END OF THE ENGINEERING No
** FOR CABLE I02 PRINTING ON THE CABLE: ENGINEERING No

NOTES:
RATED VOLTAGE: 60V AC / 75V DC
RATED CURRENT: 4A
PROTECTION CLASS: IP67
TEMPERATURE: -25°C / +80°C
PACKAGING ACCORDING TO PACKAGING SPEC. 1201202000

CONTACT POSITION FRONT VIEW:					
3 POLES (2 WIRES)		3 POLES		4 POLES	
PIN	WIRE	PIN	WIRE	PIN	WIRE
1	BROWN	1	BROWN	1	BROWN
2	---	2	---	2	WHITE
3	BLUE	3	BLUE	3	BLUE
4	N/U	4	BLACK	4	BLACK
5	---	5	---	5	---
DOCUMENT STATUS		P1	RELEASE DATE	2023/11/30	13:31:10

BILL OF MATERIAL

POS	QTY	DESCRIPTION	MATERIAL	FINISH
1	-	CABLE	SEE SHEET 2	SEE SHEET 2
2	3 / 4	CONTACT FEMALE	CuNi2Si	Cu/Ni2
3	-	OVERMOLD	TPU	BLACK
4	1	INSERT FEMALE	PUR	BLACK
**5	1	LABEL YELLOW	VINYL	-
	-	PRINTING FOR CABLES I02	-	-
*6	2	ID CARRIER FOR CABLES I02	PVC	-

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
= 0	mm	2:1
= 0	GENERAL TOLERANCES (UNLESS SPECIFIED)	
= 0		
DIVISIONAL SYMBOLS	ANGULAR TOL	± 1.0 °
	4 PLACES	±
	3 PLACES	±
	2 PLACES	± 0.05
	1 PLACE	± 0.3
	0 PLACES	± 0.5
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION
		DRAWING
		SERIES
		MATERIAL NUMBER
		CUSTOMER
		SHEET NUMBER

ENGINEERING NO. - NUMERICAL CODE (Available parts see table 2. Other parts available upon request).

OPTIONS

50X000XXXMXXXX

50=Snap
Nano Change
Single Ended

Poles:
2=2 Poles
3=3 Poles
4=4 Poles

Heads style:
001=Plug Female
90° Angled

Cable type: See Table 2

Unit:
M=Meter

Length
Examples:
005=0.5 unit
010=1 unit
100=10 units

*H= 2 pcs. of I/D Carrier PVC Transparent
(Cables lxx always with
2 pcs. I/D Carrier)

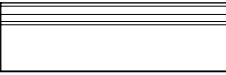


TABLE 2

CABLE TYPE	NO. OF WIRES	CROSS SECTION	CABLE JACKET	UL	CSA	STATIC: TEMP. / BENDING RADIUS	DYNAMIC: TEMP. / BENDING RADIUS	DRAG CHAIN
E02	3 / 4	0.25mm²	PVC BLACK	UL 1729/2464	C22.2 I/II A/B 80°C 300V	-30°C to +80°C / 10xO.D.	-10°C to +80°C / 15xO.D.	-
H08	3 / 4	0.25mm²	PUR BLACK LS0H	UL 10493/21198	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, Temp max 60°C
I02	2 / 3 / 4	0.25mm²	PVC (CEI) GREY	-	-	-30°C to +70°C	-5°C to +70°C	-
P02	3 / 4	0.25mm²	PUR / PVC BLACK	-	-	-30°C to +80°C / 7xO.D.	-5°C to +80°C / 15xO.D.	-

CABLE LENGTH TOLERANCES

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

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/30	13:31:10
-----------------	----	--------------	------------	----------

FUNCTIONAL SYMBOLS		THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION										CURRENT REV DESC: PACKAGING SPEC ADDED				molex NC XP FE ST XM SNAP											
DIMENSION UNITS		mm		SCALE		1:1		GENERAL TOLERANCES (UNLESS SPECIFIED)																			
ANGULAR TOL		±		1.0 °																							
DIVISIONAL SYMBOLS		4 PLACES		±		EC NO: 770174 DRWN: RSCHIEBER 2023/11/20 CHK'D: RSILLER 2023/11/30 APPR: RSILLER 2023/11/30		INITIAL REVISION: DRWN: AKONDRACIUK 2017/06/07 APPR: MIWASIECZKO 2017/06/08										DOCUMENT NUMBER				DOC TYPE		DOC PART		REVISION	
3 PLACES		±		1200888001														PSD		000		A2					
2 PLACES		±		0.05														MATERIAL NUMBER		CUSTOMER		SHEET NUMBER					
1 PLACE		±		0.3														SEE SHEET 3		GENERAL MARKET		2 OF 3					
0 PLACES		±		0.5																							
DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION				DRAWING		A3-SIZE		SERIES		120088															

PART LIST

No	Part No	Engineering No	Cable Length
1	1200888001	503000E02M020	2m
2	1200888002	503000E02M050	5m
3	1200888095	504000E02M020	2m
4	1200888166	504000E02M005	0.5m
5	1200888096	504000E02M100	10m
6	1200888133	503000E02M005	0.5m
7	1200888156	504000E02M200	20m
8	1200888187	503000E02M200	20m
9	1200888188	503000E02M300	30m
10	1200888211	503000E02M010	1m
11	1200888006	503000I02M050	5m
12	1200888078	503000I02M020	2m
13	1200888098	504000I02M100	10m
14	1200888079	503000I02M040	4m
15	1200888080	503000I02M100	10m
16	1200888097	504000I02M050	5m
17	1200888066	503000H08M007	0.7m
18	1200888077	503000H08M050	5m
19	1200888121	504000H08M020	2m
20	1200888122	503000H08M020	2m
21	1200888191	503000H08M100	10m
22	1200888192	503000H08M300	30m
23	1200888083	503000P02M020	2m
24	1200888084	503000P02M050	5m
25	1200888085	503000P02M100	10m
26	1200888081	503000P02M008	0.8m
27	1200888082	503000P02M012	1.2m
28	1200888099	504000P02M050	5m
29	1200888123	504000P02M020	2m
30	1200888003	503000E02M100	10m
31			
32			
33			
34			
35			

DOCUMENT STATUS	P1	RELEASE DATE	2023/11/30	13:31:10
-----------------	----	--------------	------------	----------

FUNCTIONAL SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION							
 = 0 = 0 = 0	DIMENSION UNITS	SCALE	CURRENT REV DESC: PACKAGING SPEC ADDED					
	mm	1:1						
	GENERAL TOLERANCES (UNLESS SPECIFIED)							
	ANGULAR TOL ± 1.0 °							
DIVISIONAL SYMBOLS	4 PLACES	±	EC NO: 770174 DRWN: RSCHIEBER 2023/11/20 CHK'D: RSILLER 2023/11/30 APPR: RSILLER 2023/11/30					
	3 PLACES	±						
	2 PLACES	± 0.05						
	1 PLACE	± 0.3						
	0 PLACES	± 0.5	INITIAL REVISION: DRWN: AKONDRACIUK 2017/06/07 APPR: MIWASIECZKO 2017/06/08	DOCUMENT NUMBER	DOC TYPE	DOC PART	REVISION	
	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION	DRAWING	SERIES	MATERIAL NUMBER	CUSTOMER	SHEET NUMBER
			A3-SIZE	120088	SEE PART LIST	GENERAL MARKET	3 OF 3	

FORMAT master-8-prod-A3 REVISION 11 DATE: 2021/05/01										9	8	7	6	5	4	3	2	1
--	--	--	--	--	--	--	--	--	--	---	---	---	---	---	---	---	---	---

13	12	11	10	9	8	7	6	5	4	3	2	1
MATERIAL NUMBER		OLD PART NUMBER		FINISHED LENGTH								
120088-8083		503000P02M020		6.56' +3.50" -0 [2.0M +88.9mm -0]								

FEMALE INSERT FRONT VIEW

1-BROWN
3-BLUE
4-BLACK

503000P02M020

Wire type
3x .25mm²
Black PUR

cable length
M020----2 Meter
M100----10 Meter

CONTACT:	GOLD/NICKEL OVER COPPER ALLOY
INSERT:	PUR, BLACK
MOLDED BODY:	TPU, NATURAL
VOLTAGE RATING:	60 VAC/75 VDC
AMPERAGE RATING:	3 AMPS
PROTECTION:	IP65
OPERATING TEMPERATURE:	-20°C TO 80°C

1	BROWN
3	BLUE
4	BLACK

WIRING DIAGRAM

INITIAL RELEASE EC NO.: IPG2014-0063 DRWN: EBRACKEN 2013/06/27 CHKD: RSTONE APPR: BWOODMAN2013/08/16	DESCRIPTION REV	QUALITY SYMBOL	GENERAL TOLERANCES (UNLESS SPECIFIED)		DIMENSION STYLE IN/MM		SCALE ---	DESIGN UNITS INCH	THIRD ANGLE PROJECTION	
		 =0 =0		mm	INCH	DRAWN BY DATE	TITLE	MOLEX INCORPORATED	SHEET NO. 1 OF 1	
			4 PLACES	±---	±---	EBRACKEN 2013/06/18	NANO-CHANGE ASSEMBLY			
			3 PLACES	±---	±.005	CHECKED BY DATE	3 POLE FE ST			
			2 PLACES	±0.13	±.010	RSTONE ----	PUR SNAP-0.25			
1 PLACE	±0.25	±.020	APPROVED BY DATE	BWOODMAN 2013/08/16	DOCUMENT NO.	SD-120088-020				
A			ANGULAR ±.5°		MATERIAL NO.					
			DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		SIZE C	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX INCORPORATED AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION				