

Technical drawing of a 5-pin cordset, showing front, back, and detail views with dimensions and callouts.

Front View Dimensions:

- Overall Length: (22.2)
- Length of first section: (50)
- Length of second section: (37.0)
- Pin 1 diameter: M8x1 (Ø10)
- Pin 2 diameter: M8x1 (Ø10)
- Pin 3 diameter: M8x1 (Ø10)
- Pin 4 diameter: M8x1 (Ø10)
- Pin 5 diameter: M8x1 (Ø10)

Callouts:

- "BRAD" LOGO ONLY ON ONE SIDE OF THE OVERMOLD
- 2x I/D CARRIER, IF IN MATRIX / ENG. NO. IS "H" SEE SHEET 2 AND 3
- "BRAD" LOGO ONLY ON ONE SIDE OF THE OVERMOLD

Back View: (BACK VIEW - NO LOGO'S)

Notes:

- PRODUCT SPECIFICATION:
 RATED VOLTAGE: 3 contacts 60V AC/DC
 4 and 5 contacts 30V AC/DC
 CURRENT RATING: 3, 4, 5 contacts 3A
 PROTECTION CLASS: IP 67
 TEMPERATURE: -25°C / +80°C
- PACKAGING: THE CORDSETS ARE PACKED IN PLASTIC BAGS AND DELIVERED IN CARTON BOXES
- SAFETY: INSTALLATION, MOUNTING, AND MAINTENANCE OF THE PRODUCT MAY ONLY BE CARRIED OUT BY A QUALIFIED ELECTRICIAN

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SCALE 1:1

12	2	I/D CARRIER	PVC	---
11	1	INSERT MALE BLACK	TPU	---
10	3 / 4 / 5	CONTACT M8 MALE	BRASS	SELECTIVE Au OVER Ni
9	1	SLEEVE	BRASS	NICKEL
8	1	COUPLING NUT M8 MALE SW9	BRASS	NICKEL
7	1	LABEL YELLOW	VINYL	---
6	-	CABLE	SEE SHEET 2	---
5	-	OVERMOLD BLACK	TPU	---
4	1	COUPLING NUT M8 FEMALE SW9	BRASS	NICKEL
3	1	INSERT FEMALE BLACK	TPU	---
2	1	O-RING RED	FKM	---
1	3 / 4 / 5	CONTACT M8 FEMALE	BRASS	SELECTIVE Au OVER Ni
ITEM	QTY.	DESCRIPTION	MATERIAL	FINISH

10	9	8	7	6	5	4	3	2	1
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ENGINEERING NO. - NUMERICAL CODE (Available parts see PART LIST table. Other parts available upon request).

OPTIONS

44X031BX XXXX

44=Nano-Change
M8x1
Double ended

Poles:
3=3 Contacts
4=4 Contacts
5=5 Contacts

Heads style:
031=Plug Female 90°
to Plug Male Straight

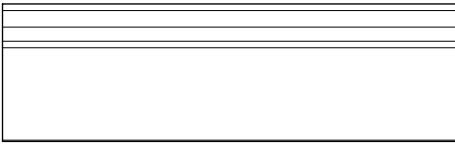
Cable type: See Table

Units:
M=Meter
C=Centimeter

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

Overmold color:
Blank (Standard)=Black

H= 2 pcs. of
I/D Carrier PVC Transparent



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: TEMP. / BENDING RADIUS	DRAG CHAIN	CABLE PRODUCT SPECIFICATION	CABLE SPEC. DRAWING
B41	3 / 4 / 5	0.25mm²	TPU Black	UL 21215/758	C22.2 I/II A/B 80°/600V	-40°C to +90°C 5xO.D.	-25°C to +80°C 7.5xO.D.	-5°C to +60°C 7.5xO.D.	up to 5 000 000 cycles at temp 20°C	1552200001	SD-120209-001

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

SYMBOLS	THIS DRAWING CONTAINS INFORMATION THAT IS PROPRIETARY TO MOLEX ELECTRONIC TECHNOLOGIES, LLC AND SHOULD NOT BE USED WITHOUT WRITTEN PERMISSION													
 = 0	DIMENSION UNITS		SCALE		CURRENT REV DESC: NEW LENGTHS ADDED			molex						
	mm		2:1											
 = 0	GENERAL TOLERANCES (UNLESS SPECIFIED)			EC NO: 742953 DRWN: RSCHIEBER 2023/03/20 CHK'D: RSILLER 2023/03/20 APPR: RSILLER 2023/03/20				CSE M8 M8 XP XC FE RA WSOR MA STR XM						
 = 0														
ANGULAR TOL ± 1.0 °														
 = 0	4 PLACES ±		PRODUCT CUSTOMER DRAWING											
 = 0	3 PLACES ±						DOCUMENT NUMBER		DOC TYPE		DOC PART		REVISION	
 = 0	2 PLACES ± 0.05													
 = 0	1 PLACE ± 0.3						INITIAL REVISION:		DRWN: RSCHIEBER 2018/09/24 APPR: RSILLER 2018/12/10					
	0 PLACES ± 0.5													
 = 0	DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS		THIRD ANGLE PROJECTION		DRAWING		SERIES		MATERIAL NUMBER		CUSTOMER		SHEET NUMBER	
 = 0					A3-SIZE		120087		SEE SHEET 3		GENERAL MARKET		2 OF 3	

