

13	12	11	10	9	8	7	6	5	4	3	2	1
MATERIAL NUMBER		OLD PART NUMBER										
120113-0020		BNYA01P-F BC										

Top view of the connector showing dimensions and callouts 1-8. Dimensions include overall length 6.42/163.0, mounting hole spacing 6.06/154.0, contact pitch .080/20.2, and contact width 0.49/12.50 TYP. Callouts 1-8 identify components: 1 (insert), 2 (M8 contact socket), 3 (O-ring), 4 (M8 receptacle shell), 5 (M16 receptacle shell), 6 (M16 pin contact), 7 (housing), and 8 (label).

FACE VIEW OF CONNECTOR

Side view of the connector showing dimensions and callouts 1-8. Dimensions include overall height 1.02/26.0, mounting hole spacing 0.34/8.5, and mounting hole diameter Ø.18/4.5. Callouts 1-8 identify components: 1 (insert), 2 (M8 contact socket), 3 (O-ring), 4 (M8 receptacle shell), 5 (M16 receptacle shell), 6 (M16 pin contact), 7 (housing), and 8 (label).

Isometric view of the connector showing the overall assembly.

WIRING DIAGRAM

PORT (CONTACT) PIN LETTER

PORT (CONTACT)	PIN	LETTER
PORT 10	PIN 4	N
PORT 9	PIN 4	C
PORT 8	PIN 4	O
PORT 7	PIN 4	E
PORT 6	PIN 4	R
PORT 5	PIN 4	G
PORT 4	PIN 4	S
PORT 3	PIN 4	T
PORT 2	PIN 4	J
PORT 1	PIN 4	P

PORT 1 TO 10 (+V) A,M

PORT 1 TO 10 (-V) L,U

ITEM	COMPONENT	MATERIAL	FINISH
1	INSERT	POLYESTER	YELLOW
2	M8 CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
3	O-RING	VITON	RED
4	M8 RECEPTACLE SHELL	BRASS	NICKEL PLATED
5	M16 RECEPTACLE SHELL	BRASS	NICKEL PLATED
6	M16 PIN CONTACT	BRASS	GOLD OVER NICKEL
7	HOUSING	NYLON	YELLOW
8	LABEL	ABS	WHITE

RELEASED DRAWING

EC NO: WEU2010-0058

DRWN: LHARTMAN 8/19/09

CHKD: BWOODMAN2009/08/21

APPR: JFMURPHY 2009/08/21

A

DESCRIPTION

REV

QUALITY SYMBOL

▽=0

▽=0

GENERAL TOLERANCES (UNLESS SPECIFIED)

mm INCH

4 PLACES ±---- ±----

3 PLACES ±---- ±----

2 PLACES ±---- ±.01

1 PLACE ±0.3 ±----

ANGULAR ±----°

DRAFT WHERE APPLICABLE MUST REMAIN WITHIN DIMENSIONS

DIMENSION STYLE

IN/MM

DRAWN BY DATE

LHARTMAN 2009/08/21

CHECKED BY DATE

BWOODMAN 2009/08/21

APPROVED BY DATE

MATERIAL NO.

SEE CHART

SIZE

C

SCALE

NTS

DESIGN UNITS

METRIC

THIRD ANGLE PROJECTION

TITLE

NANO-CHANGE MPIS 10 PORT PNP CONNECTOR

14 POLE M16 CONNECTOR

MOLEX INCORPORATED

DOCUMENT NO.

SD-120113-010

SHEET NO.

1 OF 1

VOLTAGE RATING

10-30 VDC

AMPERAGE RATING PER PORT

2 AMPS

PROTECTION

IP67

OPERATING TEMPERATURE

-20°C TO 90°C

ITEM	COMPONENT	MATERIAL	FINISH
1	INSERT	POLYESTER	YELLOW
2	M8 CONTACT SOCKET	COPPER ALLOY	GOLD OVER NICKEL
3	O-RING	VITON	RED
4	M8 RECEPTACLE SHELL	BRASS	NICKEL PLATED
5	M16 RECEPTACLE SHELL	BRASS	NICKEL PLATED
6	M16 PIN CONTACT	BRASS	GOLD OVER NICKEL
7	HOUSING	NYLON	YELLOW
8	LABEL	ABS	WHITE

RELEASED DRAWING EC NO.: WEU2010-0058 DRWN.: LHARTMAN 8/19/09 CHK'D.: BWOODMAN 2009/08/21 APPR.: JFMURPHY 2009/08/21		DESCRIPTION REV	QUALITY SYMBOL		GENERAL TOLERANCES (UNLESS SPECIFIED)			DIMENSION STYLE IN/MM		SCALE NTS	DESIGN UNITS METRIC	 THIRD ANGLE PROJECTION	
			 =0  =0		mm	INCH	DRAWN BY DATE LHARTMAN 2009/08/21		TITLE NANO-CHANGE MPIS 10 PORT PNP CONNECTORIZD 14 POLE M16 CONNECTOR				
				4 PLACES	±----	±----	CHECKED BY DATE BWOODMAN 2009/08/21						
				3 PLACES	±----	±----	APPROVED BY DATE -----		 MOLEX INCORPORATED				
2 PLACES	±----	±.01	MATERIAL NO. SEE CHART		DOCUMENT NO. SD-120113-010		SHEET NO. 1 OF 1						
A			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						