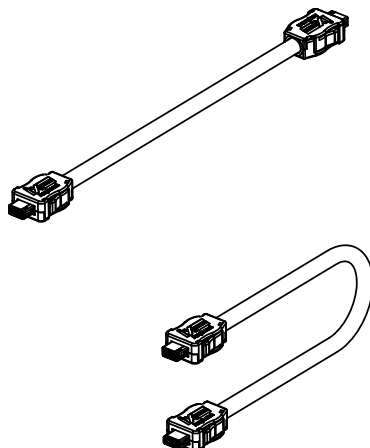
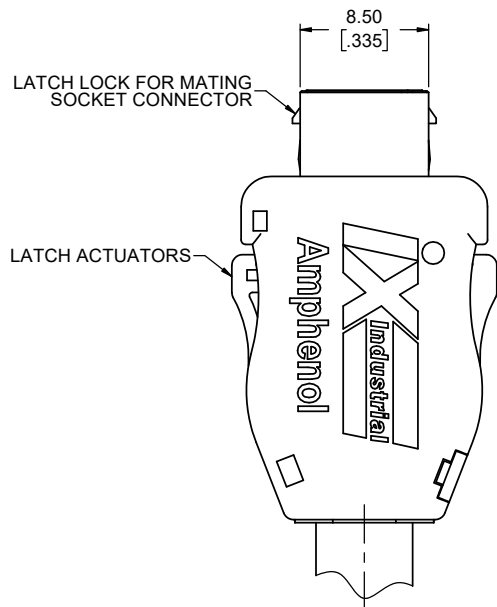
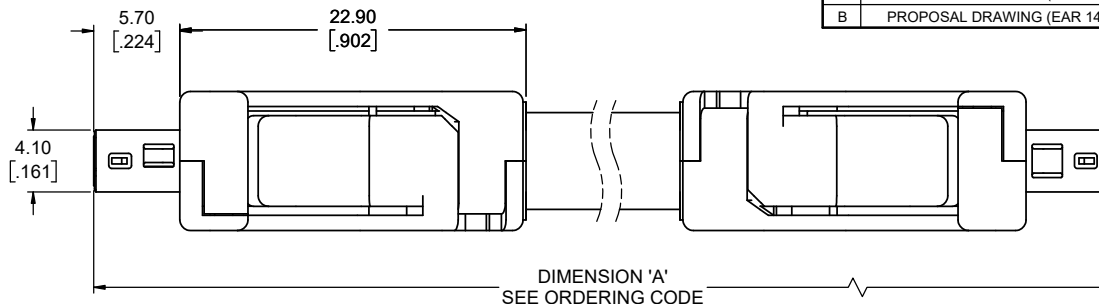
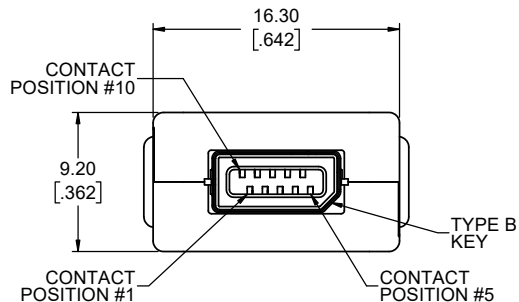




### ORDERING CODE: **ND9-BCBX-XXA**

SERIES, IX INDUSTRIAL  
ETHERNET

TYPE B KEY

CABLE

PLUG ON BOTH ENDS

PLATING FOR IX MATING AREA  
1 = GOLD FLASH  
2 = 0.20µm (8µ") GOLD  
4 = 1.27µm (50µ") GOLD  
7 = 0.76µm (30µ") PALLADIUM  
NICKEL WITH GOLD FLASH

8 WIRE CABLE

| CABLE LENGTHS (DIMENSION 'A') |                               |
|-------------------------------|-------------------------------|
| 10 TO 99                      | LENGTH IN CM                  |
| A0 TO A9                      | 1 METER + 0 TO 9 DECIMETERS   |
| B0 TO B9                      | 2 METERS + 0 TO 9 DECIMETERS  |
| C0 TO C9                      | 3 METERS + 0 TO 9 DECIMETERS  |
| D0 TO D9                      | 4 METERS + 0 TO 9 DECIMETERS  |
| E0 TO E9                      | 5 METERS + 0 TO 9 DECIMETERS  |
| F0 TO F9                      | 6 METERS + 0 TO 9 DECIMETERS  |
| G0 TO G9                      | 7 METERS + 0 TO 9 DECIMETERS  |
| H0 TO H9                      | 8 METERS + 0 TO 9 DECIMETERS  |
| J0 TO J9                      | 9 METERS + 0 TO 9 DECIMETERS  |
| K0 TO K9                      | 10 METERS + 0 TO 9 METERS     |
| L0 TO L9                      | 20 METERS + 0 TO 9 METERS     |
| M0 TO M9                      | 30 METERS + 0 TO 9 DECAMETERS |

CABLE LENGTH ORDERING CODE EXAMPLES:  
75cm = 75 6.3m = F3 25m = L5 80m = M5

### NOTES:

- MATERIAL: RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS.
  - SHIELD: STAINLESS STEEL, NICKEL PLATED
  - INSERTS & PLUG COVER: HIGH TEMPERATURE RESISTANT ENGINEERING THERMOPLASTIC, UL94V-0, BLACK
  - CONTACTS: COPPER ALLOY PLATED WITH GOLD OR PALLADIUM-NICKEL (SEE ORDERING CODE) OVER 1.27µm (50µ") MINIMUM NICKEL ON THE MATING AREA
  - WIRE: PVC INSULATED 26 AWG COPPER, METAL WRAPPED PAIRS & OVERALL BRAID
- DESIGNED TO CONFORM TO REQUIREMENTS OF IEC 61076 PART 3-124 SPECIFICATION. THE TYPE B KEY FEATURE SHOWN IS NORMALLY INTENDED FOR NON-ETHERNET APPLICATIONS. FOR THESE CABLES, THE TYPE B KEYED CONNECTORS, USED IN CONJUNCTION WITH TYPE A KEYED CONNECTORS, ARE USED AS A METHOD TO SEGREGATE OR CONTROL MATING PLUG INSTALLATIONS IN A COMPLEX ETHERNET APPLICATION.
- CURRENT RATING: 1.5 AMPERES, VOLTAGE RATING: 50V AC rms OR 60V DC
- OPERATING TEMPERATURE -40° TO +80°C.
- DIELECTRIC WITHSTANDING VOLTAGE: 500V DC
- INSULATION RESISTANCE: 500 MEGOHMS MINIMUM.
- MATING & UNMATING FORCE: 25N (5.6 lbf) MAXIMUM.



| CONNECTOR PIN ASSIGNMENT |                                          |                                                |                            |
|--------------------------|------------------------------------------|------------------------------------------------|----------------------------|
| POSITION NUMBER          | PIN ASSIGNMENT 10 OR 100 Mbit/S ETHERNET | PIN ASSIGNMENT 1, 2.5, 5 OR 10 Gbit/S ETHERNET | WIRE COLOUR (TIA/EIA 568B) |
| 1                        | TX +                                     | BI_DA +                                        | WHITE/ORANGE               |
| 2                        | TX -                                     | BI_DA -                                        | ORANGE                     |
| 3                        | NOT USED                                 | -                                              | -                          |
| 4                        | NOT USED                                 | BI_DC +                                        | BLUE                       |
| 5                        | NOT USED                                 | BI_DC -                                        | WHITE/BLUE                 |
| 6                        | RX +                                     | BI_DB +                                        | WHITE/GREEN                |
| 7                        | RX -                                     | BI_DB -                                        | GREEN                      |
| 8                        | NOT USED                                 | -                                              | -                          |
| 9                        | NOT USED                                 | BI_DD +                                        | WHITE/BROWN                |
| 10                       | NOT USED                                 | BI_DD -                                        | BROWN                      |

**NOTE:**  
CONTACTS #3 & #8  
ARE NOT CONNECTED  
AT EITHER END.  
TWISTED PAIRS FOR  
POSITIONS 1/2, 4/5,  
6/7 & 9/10.

|                            |                              |           |         |
|----------------------------|------------------------------|-----------|---------|
| UNLESS SPECIFIED OTHERWISE | DRAWN                        | B.COPPING | JUL9/19 |
| PRIMARY UNITS MILLIMETERS  | CHECKED                      | K.LAMBIE  | JUL9/19 |
| SECONDARY UNITS INCHES     | M.E. APP'D                   |           |         |
| REFERENCE IN PARENTHESES   | Q.A. APP'D                   |           |         |
| GENERAL TOLERANCES         | DWG APPR.                    |           |         |
| 1 DECIMAL PLACE            | ENG. REL. NO.                | EAR 14720 |         |
| 2 DECIMAL PLACES           | REF.                         |           |         |
| 3 DECIMAL PLACES           | THIRD ANGLE SCALE PROJECTION |           |         |
| ANGULAR DEGREES            |                              |           |         |

|                                                                                          |                                     |
|------------------------------------------------------------------------------------------|-------------------------------------|
| <b>Amphenol Canada Corp.</b><br>Commercial Products                                      |                                     |
| IX INDUSTRIAL ETHERNET CABLE, TYPE B<br>PLUG TO PLUG, VARIOUS LENGTHS, RoHS<br>COMPLIANT |                                     |
| P-ND9-BCBX-XXA                                                                           | REV B                               |
| CODE ID NO. 03554                                                                        | DWG SIZE: X SCALE: 4:1 SHEET 1 OF 1 |