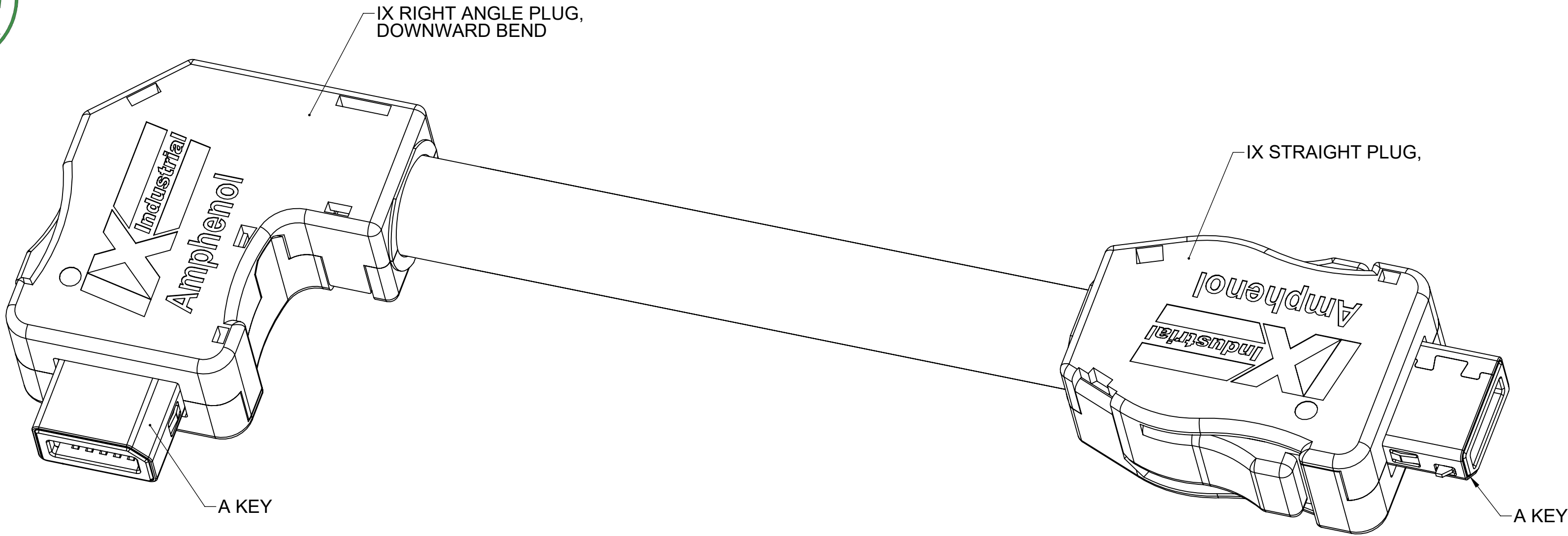




| REVISIONS |              |          |            |           |
|-----------|--------------|----------|------------|-----------|
| REV       | DESCRIPTION  | DATE     | GUARDIAN   | APPROVED  |
| -         | -            | -        | -          | -         |
| A         | ECN-C00444-1 | JAN10/25 | B. COPPING | K. LAMBIE |



ORDERING CODE: **ND9-ACJX-XXAE**

SERIES, IX INDUSTRIAL ETHERNET  
TYPE A KEY FOR ETHERNET  
CABLE  
CABLE ASSY INCLUDING RIGHT ANGLE IX PLUG  
PLATING FOR IX MATING AREA  
1 = GOLD FLASH  
2 = 0.20µm (8µ") GOLD  
3 = 0.76µm (30µ") GOLD  
4 = 1.27µm (50µ") GOLD  
7 = 0.76µm (30µ") PALLADIUM NICKEL WITH GOLD FLASH  
CABLE END PLUGS - DOWNWARD BEND ONE END, STRAIGHT PLUG OTHER END  
8 WIRE

| CABLE LENGTHS (DIMENSION 'A') |                               |
|-------------------------------|-------------------------------|
| 20 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

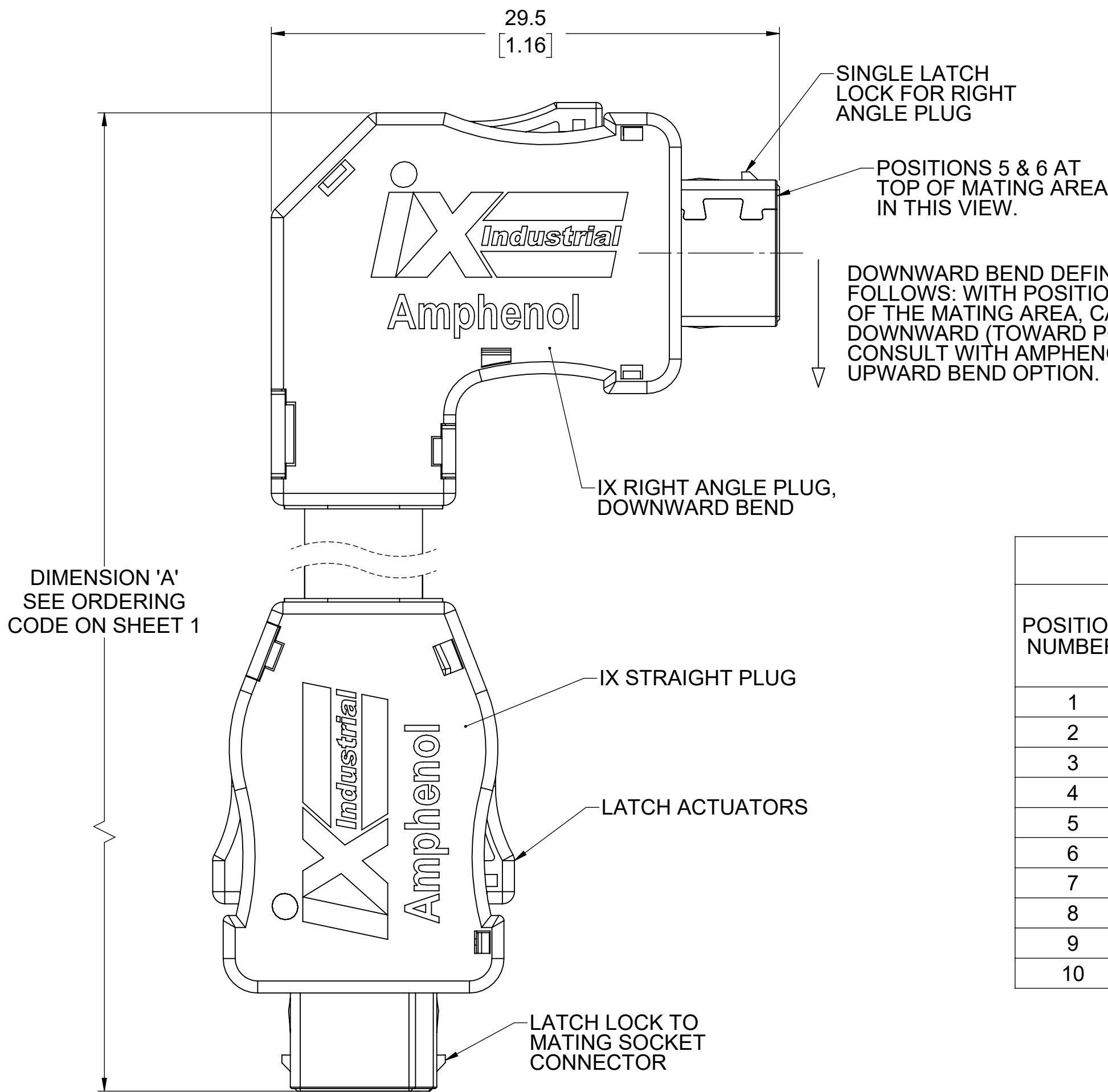
NOTES:

- 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
  - CABLE: COPPER CONDUCTOR 26 AWG, 7 STRANDS, PE INSULATION DIA 0.95 TO 1.05mm (.037 TO .041"), METAL FOIL WRAPPED TWISTED PAIRS, OVERALL TIN PLATED BRAID, PVC JACKET DIA 6.3 TO 7.2mm (.244 TO .283")
- DESIGNED TO CONFORM TO REQUIREMENTS OF IEC 61076 PART 3-124 SPECIFICATION. THE TYPE A KEY FEATURE SHOWN IS INTENDED FOR USE WITH ETHERNET APPLICATIONS, EITHER 10/100 MBit/S OR 1 TO 10 GBit/S (CAT 5e, 6 & 6A).
- 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.

|                            |                               |                      |
|----------------------------|-------------------------------|----------------------|
| UNLESS SPECIFIED OTHERWISE | DRAWN <b>B. COPPING</b>       | <b>JAN8/25</b>       |
| PRIMARY UNITS MILLIMETRES  | CHECKED -                     | -                    |
| SECONDARY INCHES           | M.E. APP'D -                  | -                    |
| REFERENCE IN PARENTHESES   | Q.A. APP'D -                  | -                    |
| GENERAL TOLERANCES         | DWG APP'D <b>K. LAMBIE</b>    | <b>JAN10/25</b>      |
| 1 DECIMAL PLACE            | ENG NO. EAR 15000             |                      |
| 2 DECIMAL PLACES           | RELEASE STATE <b>RELEASED</b> |                      |
| 3 DECIMAL PLACES           | THIRD ANGLE PROJECTION        | DO NOT SCALE DRAWING |
| ANGULAR DEGREES            |                               |                      |

|                                                                                                                                   |             |            |              |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|------------|--------------|
| <b>Amphenol Canada Corp.</b><br>Commercial Products                                                                               |             |            |              |
| IX INDUSTRIAL ETHERNET CABLE, A KEY, DOWNWARD RIGHT ANGLE PLUG ONE END & STRAIGHT PLUG OTHER END, VARIOUS LENGTHS, RoHS COMPLIANT |             |            |              |
| DWG. NO. <b>P-ND9-ACJX-XXAE</b>                                                                                                   |             |            | REV <b>A</b> |
| CODE ID NO. 03554                                                                                                                 | DWG SIZE: C | SCALE: 4:1 | SHEET 1 OF 2 |

| REVISIONS |              |          |            |           |
|-----------|--------------|----------|------------|-----------|
| REV       | DESCRIPTION  | DATE     | GUARDIAN   | APPROVED  |
| -         | -            | -        | -          | -         |
| A         | ECN-C00444-1 | JAN10/25 | B. COPPING | K. LAMBIE |

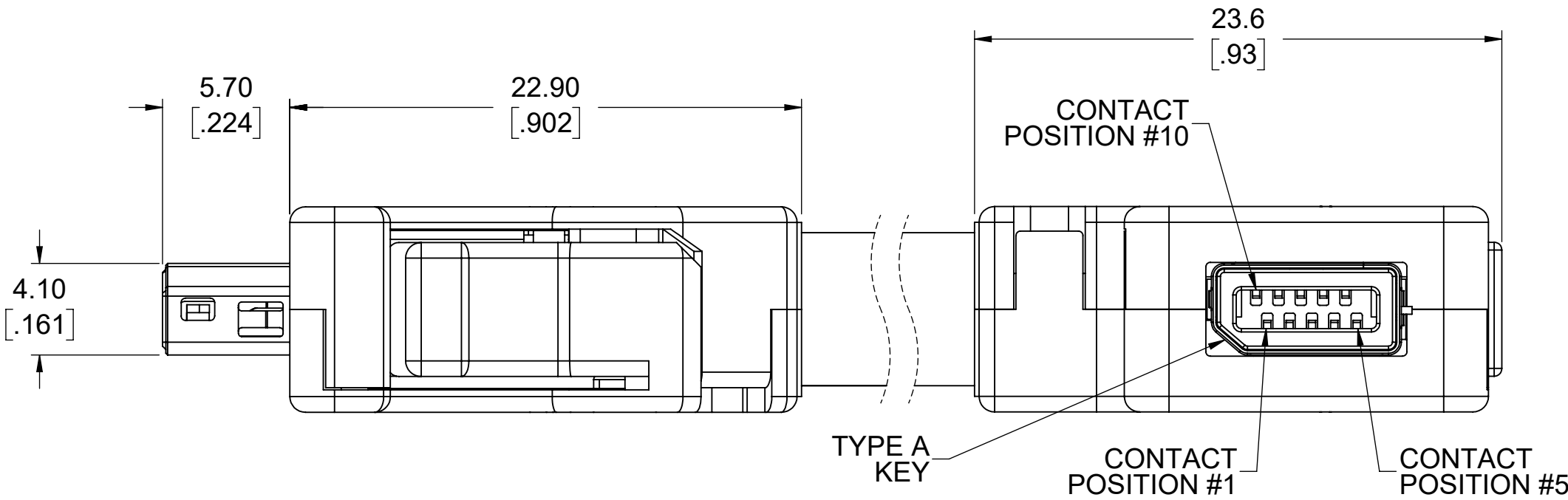
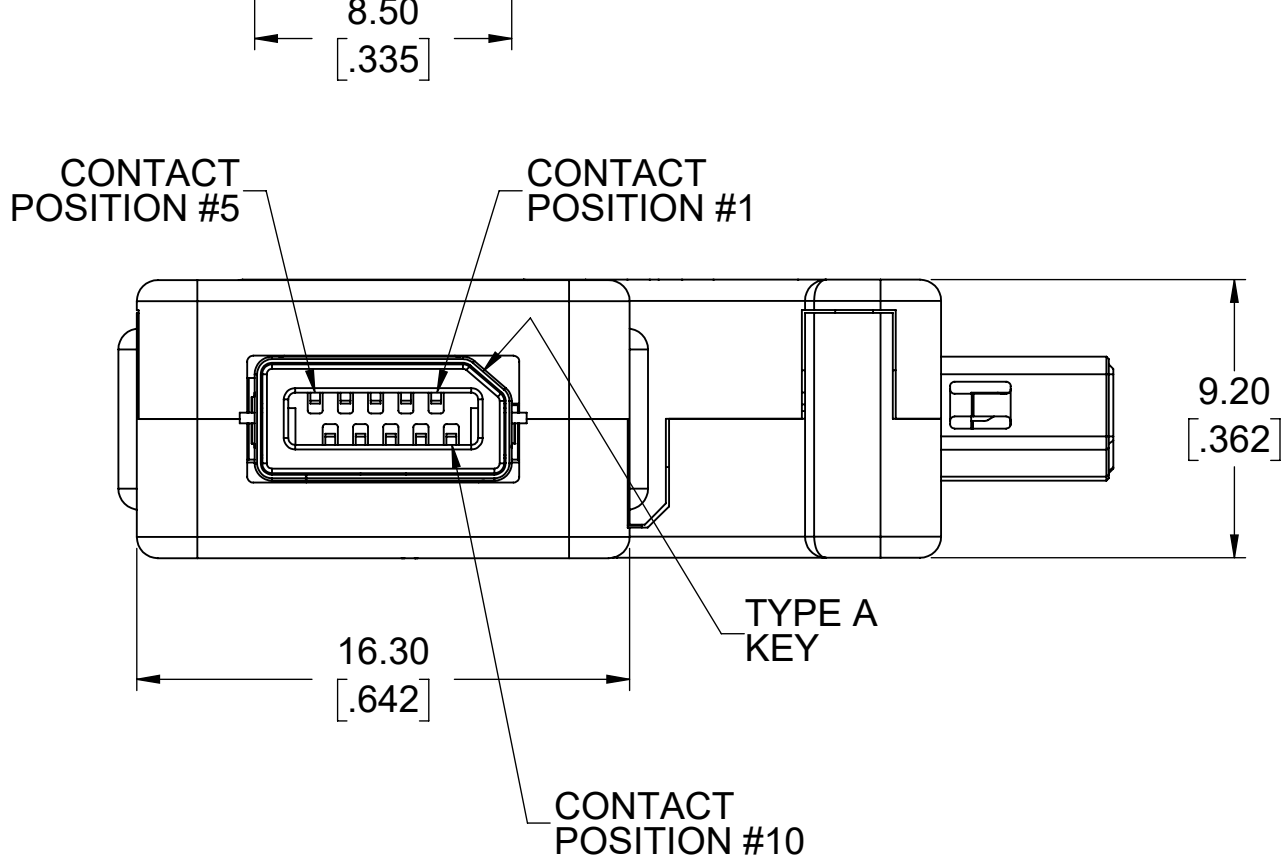


| CONNECTOR PIN ASSIGNMENT |                                          |                                                |                            |
|--------------------------|------------------------------------------|------------------------------------------------|----------------------------|
| 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.

TWISTED PAIRS FOR  
POSITIONS 1/2, 4/5,  
6/7 & 9/10.

WIRING BETWEEN  
PLUGS TO BE FROM  
POSITION 1 TO 1, 2 TO  
2, ....10 TO 10.



|                            |                               |                      |
|----------------------------|-------------------------------|----------------------|
| UNLESS SPECIFIED OTHERWISE | DRAWN <b>B. COPPING</b>       | <b>JAN8/25</b>       |
| PRIMARY UNITS MILLIMETRES  | CHECKED -                     | -                    |
| SECONDARY INCHES           | M.E. APP'D -                  | -                    |
| REFERENCE IN PARENTHESES   | Q.A. APP'D -                  | -                    |
| GENERAL TOLERANCES         | DWG APP'D <b>K. LAMBIE</b>    | <b>JAN10/25</b>      |
| 1 DECIMAL PLACE            | ENG NO. EAR 15000             |                      |
| 2 DECIMAL PLACES           | RELEASE STATE <b>RELEASED</b> |                      |
| 3 DECIMAL PLACES           | THIRD ANGLE PROJECTION        | DO NOT SCALE DRAWING |

**Amphenol Canada Corp.**  
**Commercial Products**  
IX INDUSTRIAL ETHERNET CABLE, A KEY,  
DOWNWARD RIGHT ANGLE PLUG ONE END  
& STRAIGHT PLUG OTHER END, VARIOUS  
LENGTHS, RoHS COMPLIANT

DWG. NO. **P-ND9-ACJX-XXAE**

REV **A**

CODE ID NO. 03554 DWG SIZE: C SCALE: 4:1 SHEET 2 OF 2