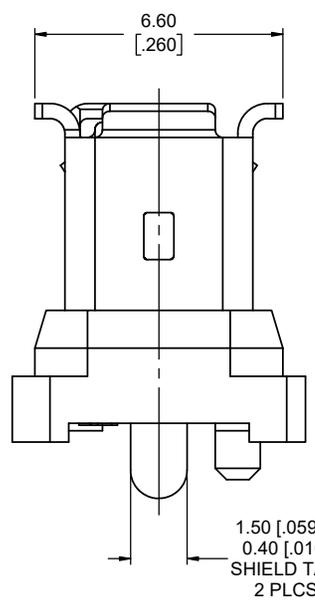
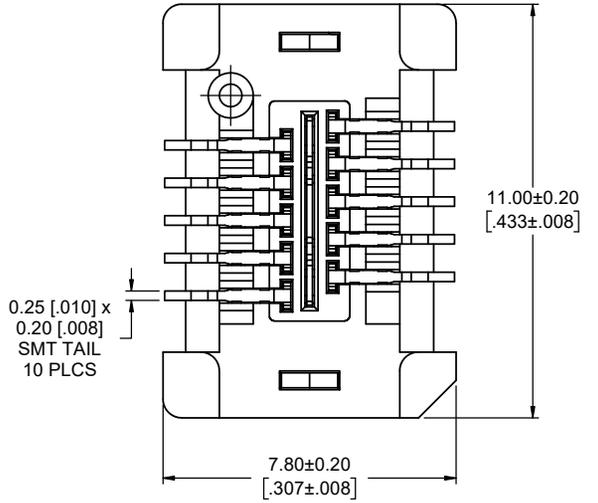
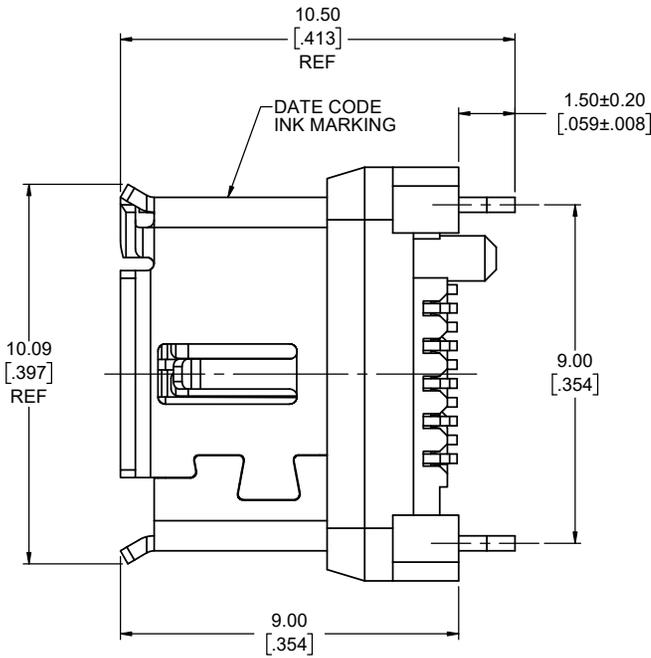
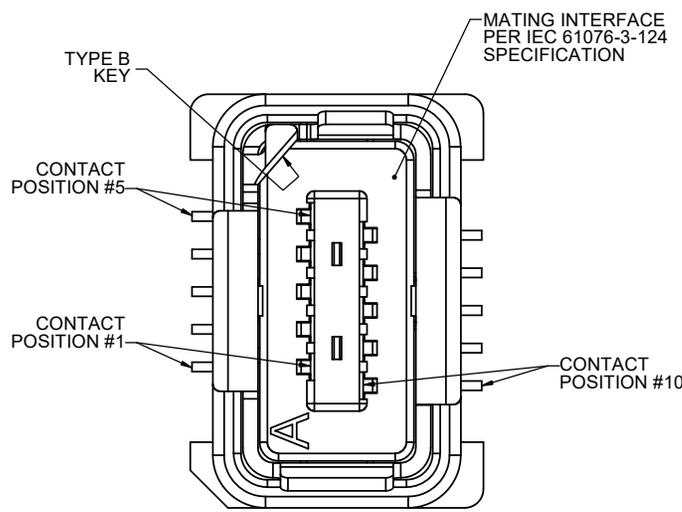
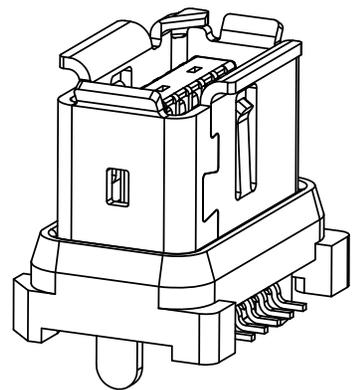


REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
B	PRODUCT DRAWING (EAR 14804)	FEB27/20	K.L.
C	PRODUCT DRAWING (EAR 14869)	SEP29/20	K.L.



**ORDERING CODE: ND9-BS2X-00**

- SERIES, IX INDUSTRIAL I/O & Gbit APPLICATIONS
- TYPE B KEY
- SOCKET / RECEPTACLE
- VERTICAL
- PLATING FOR 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
- STANDARD



**NOTES:**

1. MATERIAL: RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS.
  - SHIELD: STAINLESS STEEL, MATTE TIN OVER NICKEL PLATED.
  - INSERTS: HIGH TEMPERATURE RESISTANT ENGINEERING THERMOPLASTIC, GLASS REINFORCED, 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 AND MATTE TIN ON THE SMT TAILS.
  - MID-PLATE: STAINLESS STEEL, NICKEL PLATED
2. CONNECTORS ARE PROVIDED IN TAPE & REEL PACKAGING FOR PICK & PLACE PROCESSING AND ARE SUITABLE FOR IR REFLOW SOLDERING OF PIN IN PASTE SHIELD TAILS AND SURFACE MOUNT CONTACT TAILS.
3. DESIGNED TO CONFORM TO REQUIREMENTS OF IEC 61076 PART 3-124 SPECIFICATION. THE TYPE B KEY FEATURE SHOWN IS INTENDED FOR NON-ETHERNET APPLICATIONS. IN SPECIAL SITUATIONS, THE TYPE B KEYED CONNECTORS, USED IN CONJUNCTION WITH TYPE A KEYED CONNECTORS, MAY BE USED AS A METHOD TO SEGREGATE OR CONTROL MATING PLUG INSTALLATIONS IN A COMPLEX ETHERNET APPLICATION.
4. CURRENT RATING: 1.5 AMPERES, VOLTAGE RATING: 50V AC rms OR 60V DC
5. OPERATING TEMPERATURE -55° TO +85°C.
6. DIELECTRIC WITHSTANDING VOLTAGE: 500V DC
7. CONTACT RESISTANCE: 30 MILLIOHMS MAXIMUM.
8. INSULATION RESISTANCE: 500 MEGOHMS MINIMUM.
9. MATING & UNMATING FORCE: 25N (5.6 lbf) MAXIMUM.



UNLESS SPECIFIED OTHERWISE	DRAWN	B.COPPING	JUN7/19
PRIMARY UNITS MILLIMETERS	CHECKED	K.LAMBIE	JUN7/19
SECONDARY 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 ±0.15	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

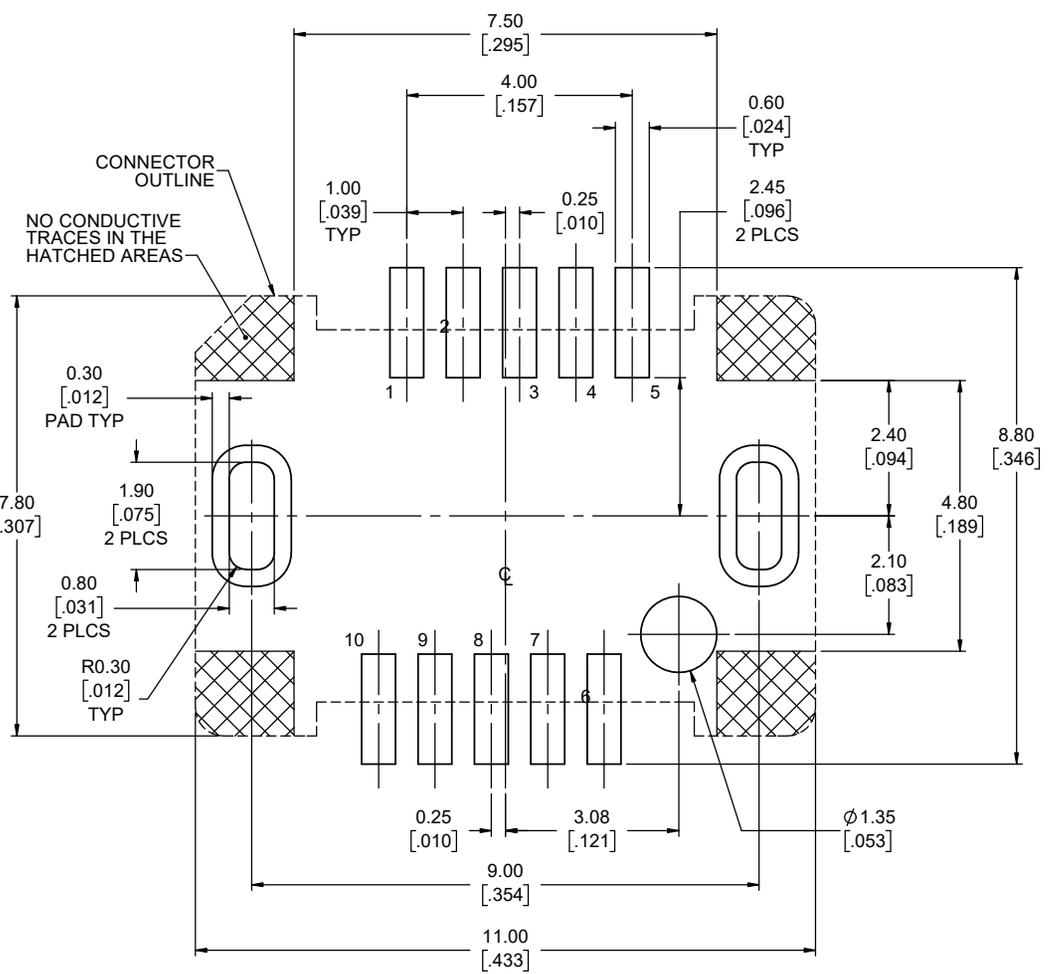
**Amphenol Canada Corp.**  
Commercial Products

**IX INDUSTRIAL CONNECTOR, 10 POSITION VERTICAL SMT TERMINATION, CAT 6A HIGH SPEED PERFORMANCE, TYPE B KEY, RoHS COMPLIANT**

DWG. NO. **P-ND9-BS2X-00** REV **C**

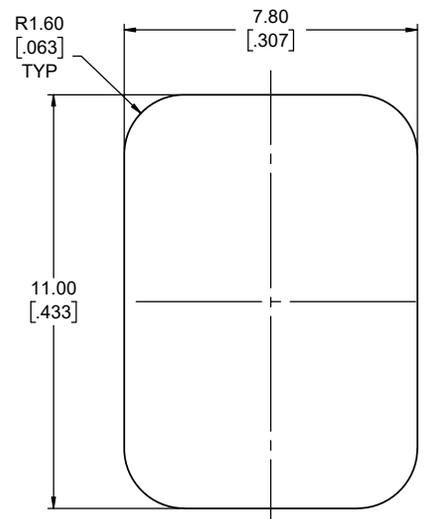
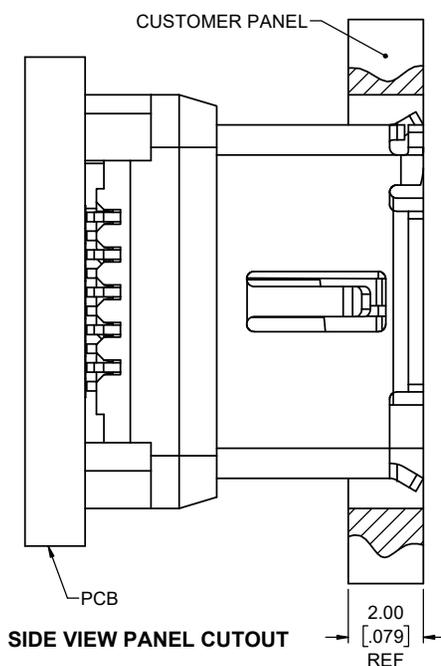
CODE ID NO. 03554 DWG SIZE: X SCALE: 10:1 SHEET 1 OF 2

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
B	PRODUCT DRAWING (EAR 14804)	FEB27/20	K.L.
C	PRODUCT DRAWING (EAR 14869)	SEP29/20	K.L.



**RECOMMENDED PCB LAYOUT**  
COMPONENT SIDE OF BOARD  
SCALE 15:1  
GENERAL TOLERANCE  $\pm 0.05\text{mm}$   
FOR THIS VIEW

LOCATE HOLES & PADS  
 $\phi$  0.13 [.005] DIA  
POSITION DIMENSIONS  
ARE BASIC



CONNECTOR PIN ASSIGNMENT (IF USED FOR ETHERNET)		
POSITION NUMBER	PIN ASSIGNMENT 10 OR 100 Mbit/S ETHERNET	PIN ASSIGNMENT 1, 2.5, 5 OR 10 Gbit/S ETHERNET
1	TX +	BI_DA +
2	TX -	BI_DA -
3	NOT USED	GND
4	NOT USED	BI_DC +
5	NOT USED	BI_DC -
6	RX +	BI_DB +
7	RX -	BI_DB -
8	NOT USED	GND
9	NOT USED	BI_DD +
10	NOT USED	BI_DD -



UNLESS SPECIFIED OTHERWISE	DRAWN	B.COPPING	JUN7/19
PRIMARY UNITS MILLIMETERS	CHECKED	K.LAMBIE	JUN7/19
SECONDARY 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 $\pm 0.15$	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

**Amphenol Canada Corp.**  
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**IX INDUSTRIAL CONNECTOR, 10 POSITION VERTICAL TERMINATION, CAT 6A HIGH SPEED PERFORMANCE, TYPE B KEY, RoHS COMPLIANT**

DWG. NO. **P-ND9-BS2X-00** REV **C**

CODE ID NO. 03554 DWG SIZE: X SCALE: 10:1 SHEET 2 OF 2