

REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
M	PRODUCT DRAWING (EAR 15230)	OCT4/23	K.L.
N	PRODUCT DRAWING (EAR 15230)	NOV3/23	K.L.

**ORDERING CODE: ND9-AS1X-00**

SERIES, IX INDUSTRIAL  
 A KEY FOR ETHERNET  
 SOCKET / RECEPTACLE  
 RIGHT ANGLE FLAG STYLE  
 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:**

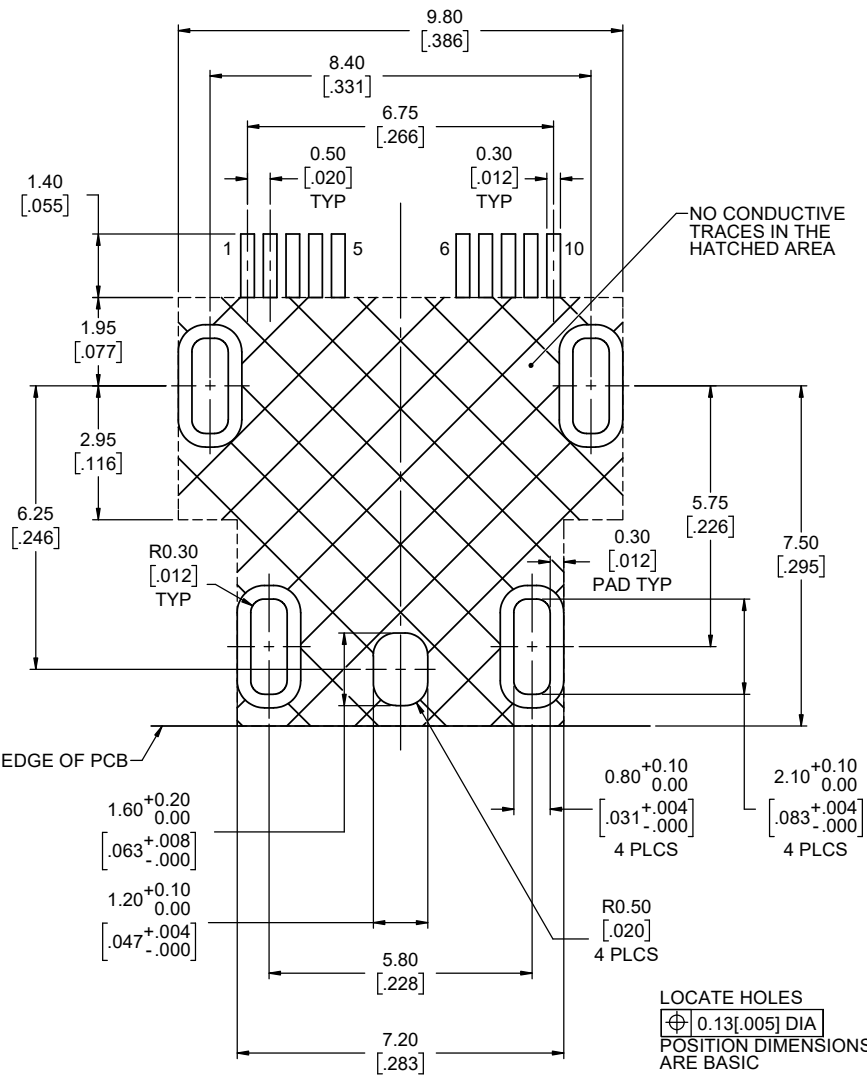
- MATERIAL: RoHS COMPLIANT PER EU DIRECTIVE 2011/65/EU AND AMENDMENTS.
  - SHIELD: STAINLESS STEEL, MATTE TIN OVER NICKEL PLATED.
  - INSERTS: HIGH TEMPERATURE RESISTANT ENGINEERING THERMOPLASTIC, GLASS REINFORCED, UL94V-0, BLACK.
  - CONTACTS: COPPER ALLOY PLATED WITH GOLD OR PALLADIUM-NICKEL (SEE ORDERING CODE) OVER 1.27µm (50µ") MINIMUM NICKEL ON THE MATING AREA AND MATTE TIN OVER NICKEL ON THE SMT TAILS. CODE 4 MATING AREA PLATING 1.27µm (50µ") GOLD OPTION CONFORMS TO ASTM B488, TYPE 2, CODE C, CLASS 1.25.
  - MID-PLATE: STAINLESS-STEEL
- 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.
- DESIGNED TO CONFORM TO REQUIREMENTS OF IEC 61076 PART 3-124 SPECIFICATION. THE A KEY FEATURE SHOWN IS INTENDED FOR USE WITH ETHERNET APPLICATIONS, EITHER 10/100 MBI/S OR 1 TO 10 GBI/S (CAT 5e, 6 & 6A).
- CURRENT RATING:
  - 1.5 A PER POSITION (30° MAX TEMPERATURE RISE PER UL1977 & CSA C22.2 NO 182.3 STANDARDS)
  - 3A WITH POSITIONS 1, 2, 6, 7 ENERGIZED (TEMPERATURE RISE PLUS AMBIENT LESS THAN LOWEST RELATIVE THERMAL INDEX TEMPERATURE OF THE PLASTICS)
- VOLTAGE RATING: 50V AC rms OR 60V DC
- OPERATING TEMPERATURE -55° TO +105°C.
- DIELECTRIC WITHSTANDING VOLTAGE: 500V DC
- CONTACT RESISTANCE: 30 MILLIOHMS MAXIMUM.
- INSULATION RESISTANCE: 500 MEGOHMS MINIMUM.
- MATING & UNMATING FORCE: 25N (5.6 lbf) MAXIMUM.



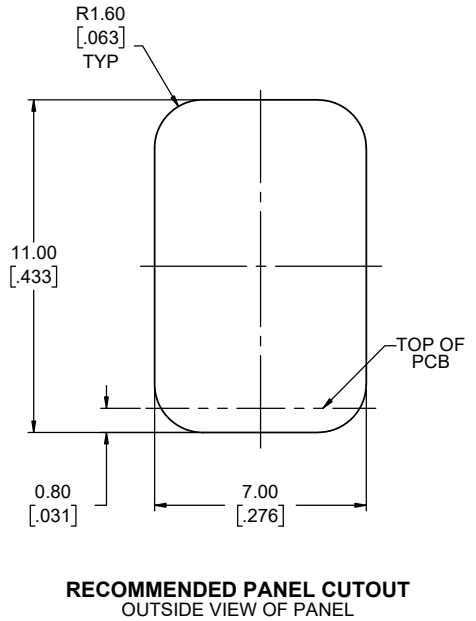
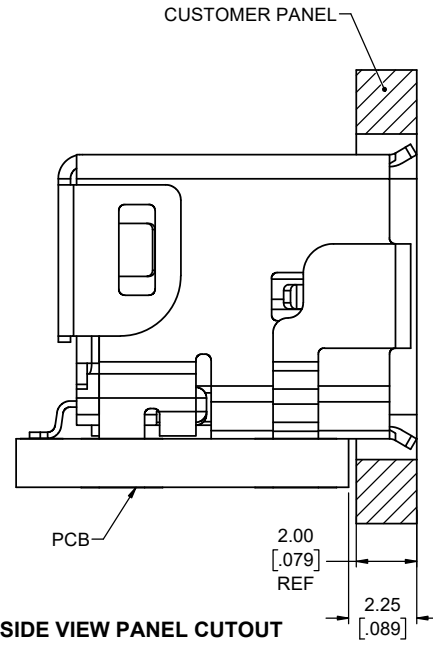
UNLESS SPECIFIED OTHERWISE	DRAWN	B. COPPING	MAR5/19
PRIMARY UNITS MILLIMETRES	CHECKED	K. LAMBIE	MAR5/19
SECONDARY INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
GENERAL TOLERANCES	DWG APPR.		
1 DECIMAL PLACE	ENG. REL. NO.	EAR 14720	
2 DECIMAL PLACES ±0.15	REF.		
3 DECIMAL PLACES	THIRD ANGLE PROJECTION		
ANGULAR DEGREES	DO NOT SCALE DRAWING		

<b>Amphenol Canada Corp.</b> Commercial Products	
IX INDUSTRIAL CONNECTOR, 10 POSITION A KEY RIGHT ANGLE FLAG STYLE, SMT TERMINATION, CAT 6A HIGH SPEED PERFORMANCE, RoHS COMPLIANT	
DWG. NO.	REV
P-ND9-AS1X-00	N
CODE ID NO. 03554	DWG SIZE: X SCALE: 10:1 SHEET 1 OF 3

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**RECOMMENDED PCB LAYOUT**  
 COMPONENT SIDE OF BOARD  
 SCALE 12:1  
 GENERAL TOLERANCE  $\pm 0.05$ mm  
 FOR THIS VIEW



CONNECTOR PIN ASSIGNMENT		
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	MAR5/19
PRIMARY UNITS MILLIMETRES	CHECKED	K. LAMBIE	MAR5/19
SECONDARY INCHES	M.E. APP'D		
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ANGULAR DEGREES			

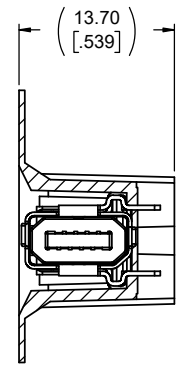
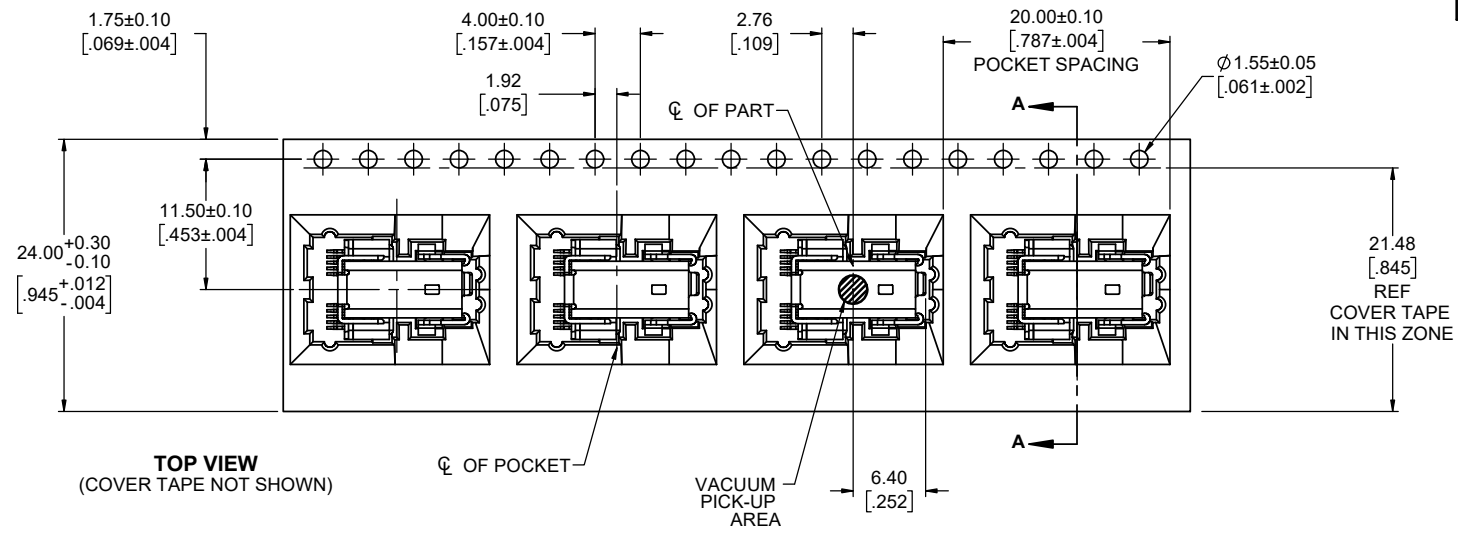
**Amphenol Canada Corp.**  
 Commercial Products

**IX INDUSTRIAL CONNECTOR, 10 POSITION**  
 A KEY RIGHT ANGLE FLAG STYLE,  
 SMT TERMINATION, CAT 6A HIGH SPEED  
 PERFORMANCE, RoHS COMPLIANT

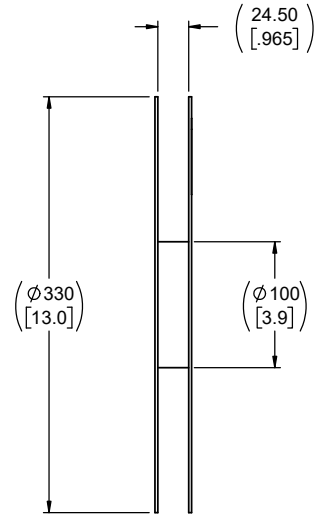
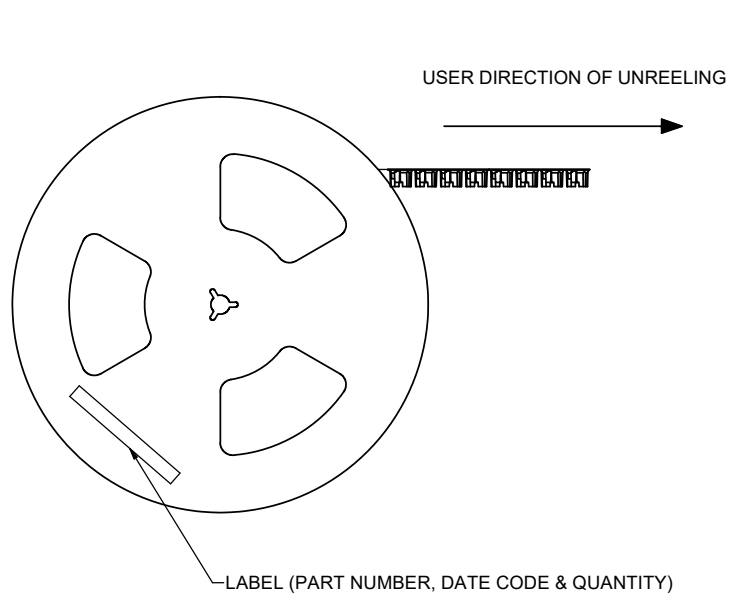
DWG. NO. **P-ND9-AS1X-00** REV **N**

CODE ID NO. 03554 DWG SIZE: X SCALE: 8:1 SHEET 2 OF 3

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**SECTION A-A**  
SCALE 3 : 1



**PACKAGING NOTES:**

1. EACH REEL TO CONTAIN A QUANTITY OF 240 CONNECTORS.
2. EACH FULL CARTON TO CONTAIN A QUANTITY OF 9 REELS TOTAL OF 2160 CONNECTORS.

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UNLESS SPECIFIED OTHERWISE	DRAWN	B.COPPING	MAR5/19
PRIMARY UNITS MILLIMETRES	CHECKED	K.LAMBIE	MAR5/19
SECONDARY UNITS INCHES	M.E. APP'D		
REFERENCE IN PARENTHESES	Q.A. APP'D		
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2 DECIMAL PLACES	REF.		
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ANGULAR DEGREES			

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A KEY RIGHT ANGLE FLAG STYLE,  
SMT TERMINATION, CAT 6A HIGH SPEED  
PERFORMANCE, RoHS COMPLIANT**

DWG. NO.	REV
<b>P-ND9-AS1X-00</b>	<b>N</b>

CODE ID NO. 03554 | DWG SIZE: X | SCALE: 3:1 | SHEET 3 OF 3