



REVISIONS			
REV	DESCRIPTION, ECN, EAR NO.	DATE	APP'D
A	PRODUCT DRAWING (EAR 15072)	FEB17/22	K.L.

**ORDERING CODE: ND9 - ACHX - XXAL**

SERIES, IX INDUSTRIAL ETHERNET  
 TYPE A KEY FOR ETHERNET  
 CABLE  
 ND9 PLUG ON ONE END, RIGHT ANGLE RJ45 PLUG ON OTHER END  
 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  
 CABLE LENGTH (DIMENSION 'A') SEE TABLE BELOW  
 8 WIRE CABLE  
 40mm RJ45 PLUG DIMENSION

CABLE LENGTHS (DIMENSION 'A')	
	LENGTH IN CM
20 TO 99	
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: COPPER ALLOY OR STAINLESS STEEL, NICKEL PLATED
  - INSERTS, PLUG COVER & OVERMOULD: ENGINEERING THERMOPLASTIC, RJ45 HOUSING: CLEAR POLYCARBONATE
  - CONTACTS: COPPER ALLOY PLATED WITH GOLD OR PALLADIUM-NICKEL (SEE ORDERING CODE) OVER 1.27µm (50µ") MINIMUM NICKEL ON THE MATING AREA. RJ45 CONTACTS: 0.38µm (15µ") GOLD OVER NICKEL (FOR PLATING CODES 1 & 2) OR 1.27µm (50µ") GOLD OVER NICKEL (FOR PLATING CODES 4 & 7).
  - CABLE: PVC INSULATED, 8 x 26 AWG COPPER, FOIL WRAP PAIRS AND OVERALL BRAID
- IX PLUG 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 UP 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.

CONNECTOR PIN ASSIGNMENT			
ND9 POSITION NUMBER	PIN ASSIGNMENT 1, 2, 5, 5 OR 10 Gbit/S ETHERNET	WIRE COLOUR (TIA/EIA 568B)	RJ45 POSITION NUMBER
1	BI_DA +	WHITE/ORANGE	1
2	BI_DA -	ORANGE	2
3	-	-	-
4	BI_DC +	BLUE	4
5	BI_DC -	WHITE/BLUE	5
6	BI_DB +	WHITE/GREEN	3
7	BI_DB -	GREEN	6
8	-	-	-
9	BI_DD +	WHITE/BROWN	7
10	BI_DD -	BROWN	8

**NOTE:**  
 ND9 CONTACTS #3 & #8 ARE NOT CONNECTED. TWISTED PAIRS FOR ND9 POSITIONS 1/2, 4/5, 6/7 & 9/10.



UNLESS SPECIFIED OTHERWISE	DRAWN	P. GOBUI	FEB7/22
PRIMARY UNITS MILLIMETRES	CHECKED	K. LAMBIE	FEB17/22
SECONDARY REFERENCE IN PARENTHESES	M.E. APP'D		
GENERAL TOLERANCES	Q.A. APP'D		
1 DECIMAL PLACE	DWG APPR.		
2 DECIMAL PLACES	ENG. REL. NO.	EAR 15072	
3 DECIMAL PLACES	REF.		
ANGULAR DEGREES	THIRD ANGLE PROJECTION		
	DO NOT SCALE DRAWING		

**Amphenol Canada Corp.**  
 Commercial Products  
 IX INDUSTRIAL ETHERNET CABLE, TYPE A PLUG TO 40mm RIGHT ANGLE RJ45 PLUG, SPECIAL FEATURES, 50µ" GOLD, RoHS COMPLIANT

DWG. NO. **P-ND9-ACHX-XXAL** REV **A**

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