



ORDERING CODE: ND9-ACAX-XXA

SERIES, IX INDUSTRIAL
ETHERNET

TYPE A KEY FOR ETHERNET

CABLE

PLUG ON ONE END

PLATING FOR MATING AREA

- 1 = GOLD FLASH
- 2 = 0.2 µm (8µ") GOLD
- 4 = 1.27µm (50µ") GOLD
- 7 = 0.76µm (30µ") PALLADIUM NICKEL WITH GOLD FLASH

8 WIRE CABLE

CABLE LENGTHS (DIMENSION 'A')	
	LENGTH IN CM
10 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: 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.



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.

UNLESS SPECIFIED OTHERWISE	DRAWN J.BRAR	JAN28/20
PRIMARY UNITS MILLIMETERS	CHECKED K.LAMBIE	JAN29/20
SECONDARY INCHES	M.E. APP'D	
REFERENCE IN PARENTHESES	Q.A. APP'D	
GENERAL TOLERANCES	DWG APPR.	
1 DECIMAL PLACE	ENG. REL. NO.	EAR 14799
2 DECIMAL PLACES	REF.	
3 DECIMAL PLACES	THIRD ANGLE PROJECTION	
ANGULAR DEGREES	DO NOT SCALE DRAWING	

Amphenol Canada Corp. Commercial Products	
IX INDUSTRIAL ETHERNET CABLE, TYPE A PLUG ON ONE END, VARIOUS LENGTHS, RoHS COMPLIANT	
DWG. NO.	REV B
P-ND9-ACAX-XXA	
CODE ID NO. 03554	DWG SIZE: X
SCALE: 4:1	SHEET 1 OF 1

Mouser Electronics

Authorized Distributor

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