



## CN 4-16 A Series CN IEC 61000-4-16

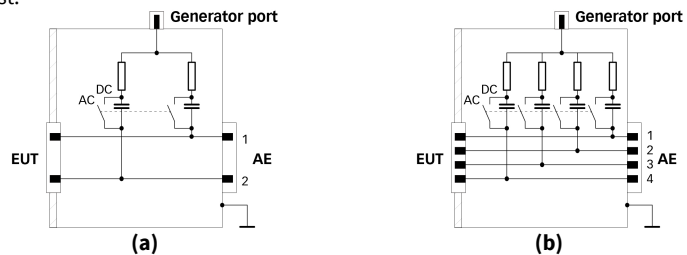
IEC/EN 61000-4-16 specifies the design and performance of a range of coupling networks (CNs). Each CN is specific to the type of cable and the intended signal carried on the cable. AMETEK CTS with its brand TESEQ offers an extensive range of CNs that fully comply with the requirements of the standard and provide a simple and reliable method of injecting RF energy into the equipment under test (EUT). In this datasheet, CN used with unshielded unbalanced for data communications with different line applications is presented.

The CN AF series is used to Inject common mode disturbance signal into unshielded and unbalanced control lines in the frequency range from 15 Hz to 150 kHz and for DC.

With a manual switch, the customer can convert from DC to AC injection, and vice versa. Consequently, it is an optimal solution for saving the need of two CNs.

AMTEK CTS cares about the safety of their customers. Hence, a protective earth bolt attached to the bottom plate can be used to increase safety during operations. Furthermore, CN AF series presented in this datasheet comes with a safety banana socket to avoid accidental contact with the metal socket.

Traceable and accredited calibration according to ISO17025 are available upon request.



Principle circuit diagram for (a) CN A201-M and (b) CN A401-M

## Electrical Specifications

	CN A201-M	CN A401-M
Frequency Range	DC, 15 Hz to 150 kHz <sup>1</sup>	
Application	Communication: unshielded, unbalanced	
Connector EUT Port	4 mm safety banana	
Connector AE Port		
Line Parameters	2 lines	4 lines
AC max. voltage (L- N)	250 V <sup>2</sup>	
DC max. voltage (L-L)	50 V	
Disturbance test level	cont. 50 V 300 V for 1 s @ DC <sup>3</sup> 100 V for 1 s @ 16 2/3 Hz, 50 Hz and 60 Hz	
Current Max	16 A	
Footnote	<sup>1</sup> : Range manually switchable. <sup>2</sup> : Maximum operating voltage is in relation to the frequency: 250 V AC at 50 / 60 Hz, 50 V AC at 10 kHz. <sup>3</sup> : Maximum potential free line to line voltage.	

## General Specifications

	CN A201-M	CN A401-M
Net Weight	approx. 1.5 kg	

## Available Models

Product	Description	Item #
CN A201-M	Coupling network according to IEC 61000-4-16 for asymmetrical 2 lines, max. 16 A, DC / AC manual switch.	255604
CN A401-M	Coupling network according to IEC 61000-4-16 for asymmetrical 4 lines, max. 16 A, DC / AC manual switch.	255606

## Accessories Information

Product	Description	Item #
CN-TC	Traceable calibration (ISO17025) for IEC 61000-4-16 requirements, order only with device CN.	97-255600
CN-ACC	Accredited calibration (ISO17025) for IEC 61000-4-16 requirements, order only with device CN.	98-255600