



Model CDN10K AF Series
Coupling/Decoupling Network for Signal Lines
10 kHz–80 MHz

The Model CDN10K AF Series are coupling/decoupling networks to couple common mode signals onto un-screened un-balanced wires. Models exist for two and four cables. The networks are designed to meet the NAMUR NE21 standard requirements. Calibration adapter sets (set of two adapters for AE and EUT ports) are required for calibration of these networks. 150-50 ohm adapter set (CR00100CD, set of 2) is available for these networks.

MODELS	SPECIFICATIONS	
	CDN10K AF2	CDN10K AF4
ELECTRICAL		
Number of Conductors	2	4
Calibration Adapter Set	CA AF2	CA AF4
Maximum AC voltage EUT/AE Ports	<350V	
Maximum DC voltage EUT/AE Ports	<600V	
Current Ratings	3A	
RF Coupling Port Frequency Range	10 KHz – 80 MHz	
RF Coupling Port Voltage Level	<40 V	
RF Coupling Port Impedance	50 Ω	
Voltage Attenuation generator/EUT	10 dB +1 dB/-3 dB	
Insertion Loss EUT/AE	<0.5 dB DC to 20 kHz	
	<30 dB at 150 kHz	
	<20 dB at 80 MHz	
Decoupling Attenuation Generator/AE	>50 dB up to 30 MHz	
	>20 dB at 80 MHz	
Common Mode Impedance at EUT Connector	150 kHz to 26 kHz: 150 \pm 20 Ω	
	26 kHz to 80 kHz: 150 +60 Ω /-45 Ω	
	80 kHz to 80 MHz: 150 +60 Ω /-45 Ω	
Coupling Factor	0 dB + 0 dB/-3 dB	
MECHANICAL		
I/O Connectors	Multi Contact Safety Socket Audio Socket	
RF Coupling Port Coupling Connector	BNC	