



**Model CDN S Series
Coupling/Decoupling Network for Signal Lines
150 kHz–230 MHz**

The Model CDN S Series are coupling/decoupling networks to couple common mode signals onto screened un-balanced wires. Models exist for 2 to 25 conductors. The networks are designed to meet the IEC 61000-4-6 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. A CDN model is also available for performing conducted susceptibility testing of EUT's with USB ports. The CDN S-USB is configured with USB 3.0 AE and EUT ports, and is backwards-compatible for testing of devices using USB 1.0 or USB 2.0 ports.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

| SPECIFICATIONS | | | | | | |
|--|----------------|---------------|---------------|-------------------------------------|---------------|---------------|
| MODELS | CDN S2 | CDN S3 | CDN S4 | CDN S9 | CDN S15 | CDN S25 |
| ELECTRICAL | | | | | | |
| Number of Conductors | 2 | 3 | 4 | 9 | 15 | 25 |
| Calibration Adapter Set | CA S2/S3/S4/S9 | | | | CA S15 | CA S25 |
| Maximum AC voltage EUT/AE Ports | | | | <350V | | |
| Maximum DC voltage EUT/AE Ports | | | | <600V | | |
| Current Ratings | | | | 3A | | |
| RF Coupling Port Frequency Range | | | | 150 KHz–230 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 | | | | <3 dB up to 20 kHz | | |
| | | | | <10 dB up to 1 MHz | | |
| | | | | <20 dB up to 10 MHz | | |
| Decoupling Attenuation Generator/AE | | | | >50 dB up to 20 MHz | | |
| | | | | >20 dB at 230 MHz | | |
| Common Mode Impedance at EUT Connector | | | | 150 kHz to 26 kHz: 150 ±20 Ω | | |
| | | | | 26 kHz to 80 kHz: 150 +60 Ω /-45 Ω | | |
| | | | | 80 kHz to 230 MHz: 150 +60 Ω /-45 Ω | | |
| Coupling Factor | | | | 0 dB + 0 dB/-3 dB | | |
| MECHANICAL | | | | | | |
| I/O Connectors (AE & EUT) | S9 D Sub mini | S9 D Sub mini | S9 D Sub mini | S9 D Sub mini | S9 D Sub mini | S9 D Sub mini |
| RF Coupling Port Connector | | | | BNC | | |

| MODELS | CDN S-USB |
|----------------------------------|--------------------------------------|
| ELECTRICAL | |
| Calibration Adapter Set | CA S-USB |
| RF Coupling Port Frequency Range | 150 KHz–230 MHz |
| RF Coupling Port Maximum Power | 9W |
| RF Coupling Port Maximum Voltage | 30V |
| RF Coupling Port Impedance | 50 Ω |
| Voltage Division Factor | 150 kHz to 80 MHz: 10 dB +1 dB |
| | 80 MHz to 230 MHz: 10 dB +3 dB/-2 dB |
| Common Mode Impedance | 150 kHz to 26 MHz: 150 ±20 Ω |
| | 26 MHz to 230 MHz: 150 +60 Ω/-45 Ω |
| MECHANICAL | |
| I/O Connectors (AE & EUT) | USB 3.0 Type A |
| RF Coupling Port Connector | BNC |