



## CDN AF SERIES

### COUPLING / DECOUPLING NETWORK (CDN)

### CDN AF TYPE, CDN CAN



CDN A201A

- Coupling networks designed for IEC/EN 61000-4-6
- Used for unscreened, unbalanced lines
- Models with 4 mm banana sockets or D-Sub 25 pins
- Models with frequency range 10 kHz to 80 MHz, 150 kHz to 230 MHz

IEC/EN 61000-4-6 specifies the design and performance of a range of coupling/decoupling networks (CDNs). Each CDN is specific to the type of cable and the intended signal carried on the cable. AMETEK CTS offers an extensive range of CDNs which 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).

#### Product range 10 kHz to 80 MHz

| CDN type | Product name  | Line type | Application                                | Connector EUT port            | Connector AE port             |
|----------|---------------|-----------|--------------------------------------------|-------------------------------|-------------------------------|
| AF2      | CDN A201-10   | 2 lines   | 2 lines application                        | 4 mm safety banana            | 4 mm safety banana            |
| AF3      | CDN A301-10   | 3 lines   | 3 lines application                        | 4 mm safety banana            | 4 mm safety banana            |
| AF4      | CDN A401-10   | 4 lines   | 4 lines application                        | 4 mm safety banana            | 4 mm safety banana            |
| CAN      | CDN CAN-U4-10 | 4 lines   | 4 lines application for unscreened CAN bus | D-Sub 9 pins (Pin 2, 3, 7, 9) | D-Sub 9 pins (Pin 2, 3, 7, 9) |
| AF5      | CDN A501-10   | 5 lines   | 5 lines application                        | 4 mm safety banana            | 4 mm safety banana            |
| AF8      | CDN A800-10   | 8 lines   | 8 lines application                        | D-Sub 25 pins (Pin 1 to 8)    | D-Sub 25 pins (Pin 1 to 8)    |
| AF8      | CDN A801-10   | 8 lines   | 8 lines application                        | 4 mm banana                   | 4 mm banana                   |

#### Product range 150 kHz to 230 MHz

| CDN type | Product name  | Line type | Application           | Connector EUT port | Connector AE port  |
|----------|---------------|-----------|-----------------------|--------------------|--------------------|
| AF2      | CDN A201A     | 2 lines   | 2 lines application   | 4 mm safety banana | 4 mm safety banana |
| AF2      | CDN A201A-50V | 2 lines   | 2 lines application*) | 4 mm safety banana | 4 mm safety banana |
| AF3      | CDN A301A     | 3 lines   | 3 lines application   | 4 mm safety banana | 4 mm safety banana |
| AF3      | CDN A301A-50V | 3 lines   | 3 lines application*) | 4 mm safety banana | 4 mm safety banana |

## CDN AF SERIES

### COUPLING / DECOUPLING NETWORK (CDN)

### CDN AF TYPE, CDN CAN



CDN A501, view to the EUT port



CDN A801, view to the EUT port

#### Product range 150 kHz to 230 MHz (continued)

| CDN type | Product name  | Line type | Application                                                        | Connector EUT port               | Connector AE port                |
|----------|---------------|-----------|--------------------------------------------------------------------|----------------------------------|----------------------------------|
| AF4      | CDN A401A     | 4 lines   | 4 lines application                                                | 4 mm safety banana               | 4 mm safety banana               |
| AF4      | CDN A401A-50V | 4 lines   | 4 lines application*)                                              | 4 mm safety banana               | 4 mm safety banana               |
| CAN      | CDN CAN-U4    | 4 lines   | 4 lines application for unscreened CAN bus                         | D-Sub 9 pins (Pin 2, 3, 7, 9)    | D-Sub 9 pins (Pin 2, 3, 7, 9)    |
| AF5      | CDN A501      | 5 lines   | 5 lines application                                                | 4 mm safety banana               | 4 mm safety banana               |
| CAN      | CDN CAN-U5    | 5 lines   | 5 lines application for unscreened CAN bus, additional ground line | D-Sub 9 pins (Pin 2, 3, 6, 7, 9) | D-Sub 9 pins (Pin 2, 3, 6, 7, 9) |
| AF7      | CDN A701      | 7 lines   | 7 lines application                                                | 4 mm banana                      | 4 mm banana                      |
| AF8      | CDN A800      | 8 lines   | 8 lines application                                                | D-Sub 25 pins (Pin 1 to 8)       | D-Sub 25 pins (Pin 1 to 8)       |
| AF8      | CDN A801      | 8 lines   | 8 lines application                                                | 4 mm banana                      | 4 mm banana                      |
| AF12     | CDN A120      | 12 lines  | 12 lines application                                               | D-Sub 25 pins (Pin 1 to 12)      | D-Sub 25 pins (Pin 1 to 12)      |
| AF15     | CDN A150      | 15 lines  | 15 lines application                                               | D-Sub 25 pins (Pin 1 to 15)      | D-Sub 25 pins (Pin 1 to 15)      |

\*) The 50 Volts version is made for applications, which require a high impedance against ground. The CDN has no discharging resistors on the Y capacitors. It limits the maximum EUT supply voltage to 50 V because of safety reasons.

# **CDN AF SERIES** **COUPLING / DECOUPLING NETWORK (CDN)** **CDN AF TYPE, CDN CAN**

## **Electrical specification CDN A201A-10, A301A-10, A401A-10, A501-10 and A801-10**

|                                                       |                                                  |
|-------------------------------------------------------|--------------------------------------------------|
| Frequency range:                                      | 10 kHz to 80 MHz                                 |
| Line parameters:                                      | unscreened, unbalanced                           |
| Power rating (EUT- and AE port)                       |                                                  |
| AC max. voltage (line to ground):                     | 250 V (160 V for CDN A501-10, A801-10)           |
| DC max. voltage (line to ground):                     | 300 V (250 V for CDN A501-10, A801-10)           |
| Current max:                                          | 4 A, (2 A for CDN A801-10)                       |
| Test voltage:                                         | 1 kV DC, 2 sec (400 V for CDN A801-10)           |
| Common mode impedance (EUT port)                      |                                                  |
| 10 kHz to 24 MHz:                                     | 150 $\Omega$ $\pm$ 20 $\Omega$                   |
| 24 MHz to 80 MHz:                                     | 150 $\Omega$ +60 $\Omega$ / -45 $\Omega$         |
| Coupling path (In/Out port/EUT)                       |                                                  |
| Connection:                                           | BNC 50 $\Omega$                                  |
| RF voltage:                                           | <30 V, refers to 50 V test level in 300 $\Omega$ |
| Voltage division factor (RF input to EUT port)        |                                                  |
| 10 kHz to 80 MHz:                                     | 10 dB $\pm$ 1 dB                                 |
| 3 dB Transmission bandwidth (wanted signal) EUT / AE: | > 20 kHz sin.                                    |
| Decoupling of CM disturbance (RF port / AE)           |                                                  |
| 10 kHz:                                               | >10 dB                                           |
| 150 kHz:                                              | >35 dB                                           |
| 24 MHz:                                               | >45 dB                                           |
| 80 MHz:                                               | >25 dB                                           |

## **Electrical specification CDN A800-10**

|                                                |                                                  |
|------------------------------------------------|--------------------------------------------------|
| Frequency range:                               | 10 kHz to 80 MHz                                 |
| Line parameters:                               | unscreened, unbalanced                           |
| Power rating (EUT- and AE port)                |                                                  |
| AC max. voltage (line to ground):              | 63 V                                             |
| DC max. voltage (line to ground):              | 100 V                                            |
| Current max:                                   | 200 mA                                           |
| Test voltage:                                  | 250 V DC, 2 sec                                  |
| Common mode impedance (EUT port)               |                                                  |
| 10 kHz to 24 MHz:                              | 150 $\Omega$ $\pm$ 20 $\Omega$                   |
| 24 MHz to 80 MHz:                              | 150 $\Omega$ +60 $\Omega$ / -45 $\Omega$         |
| Coupling path (In/Out port/EUT)                |                                                  |
| Connection:                                    | BNC 50 $\Omega$                                  |
| RF voltage:                                    | <15 V, refers to 25 V test level in 300 $\Omega$ |
| Voltage division factor (RF input to EUT port) |                                                  |
| 10 kHz to 80 MHz:                              | 10 dB $\pm$ 1 dB                                 |

# **CDN AF SERIES** **COUPLING / DECOUPLING NETWORK (CDN)** **CDN AF TYPE, CDN CAN**

## **Electrical specification CDN A800-10 (continued)**

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| 3 dB Transmission bandwidth (wanted signal) EUT / AE: | > 20 kHz sin.   |
| Decoupling of CM disturbance (RF port / AE)           |                 |
| 10 kHz / 150 kHz:                                     | >10 dB / >35 dB |
| 24 MHz / 80 MHz:                                      | >45 dB / >25 dB |

## **Electrical specification CDN A201A, A201A-50V, A301A, A301A-50V, A401A, A401A-50V, A501, A701 and A801**

|                                                       |                                                                                              |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------|
| Frequency range:                                      | 150 kHz to 230 MHz                                                                           |
| Line parameters:                                      | unscreened, unbalanced                                                                       |
| Power rating (EUT- and AE port)                       |                                                                                              |
| AC max. voltage (line to ground):                     | 250 V (160 V for CDN A501, A701, A801)<br>50 V for CDN A201A-50V, A301A-50V<br>and A401A-50V |
| DC max. voltage (line to ground):                     | 300 V (250 V for CDN A501, A701, A801)<br>50 V for CDN A201A-50V, A301A-50V<br>and A401A-50V |
| Current max:                                          | 4 A (2 A for CDN A701 and A801)                                                              |
| Test voltage:                                         | 1 kV DC, 2 sec (400 V for CDN A701 and<br>CDN A801)                                          |
| Common mode impedance (EUT port)                      |                                                                                              |
| 150 kHz to 24 MHz:                                    | 150 $\Omega$ $\pm$ 20 $\Omega$                                                               |
| 24 MHz to 80 MHz:                                     | 150 $\Omega$ +60 $\Omega$ / -45 $\Omega$                                                     |
| 80 MHz to 230 MHz:                                    | 150 $\Omega$ $\pm$ 60 $\Omega$                                                               |
| Coupling path (In / Out port / EUT)                   |                                                                                              |
| Connection:                                           | BNC 50 $\Omega$                                                                              |
| RF voltage:                                           | <30 V, refers to 50 V test level in 300 $\Omega$                                             |
| Voltage division factor (RF input to EUT port)        |                                                                                              |
| 150 kHz to 80 MHz:                                    | 10 dB $\pm$ 1 dB                                                                             |
| 80 MHz to 230 MHz:                                    | 10 dB $\pm$ 2 dB<br>10 dB +3 dB / -2 dB for CDN A501, A701,<br>A801                          |
| 3 dB Transmission bandwidth (wanted signal) EUT / AE: | > 20 kHz sin.                                                                                |
| Decoupling of CM disturbance (RF port / AE)           |                                                                                              |
| 150 kHz / 1.5 MHz:                                    | >30 dB / >60 dB                                                                              |
| 30 MHz / 230 MHz:                                     | >50 dB / >25 dB                                                                              |

# **CDN AF SERIES** **COUPLING / DECOUPLING NETWORK (CDN)** **CDN AF TYPE, CDN CAN**

## **Electrical specification CDN A800, A120 and A150**

|                                                       |                                                  |
|-------------------------------------------------------|--------------------------------------------------|
| Frequency range:                                      | 150 kHz to 230 MHz                               |
| Line parameters:                                      | unscreened, unbalanced                           |
| Power rating (EUT- and AE port)                       |                                                  |
| AC max. voltage (line to ground):                     | 63 V                                             |
| DC max. voltage (line to ground):                     | 100 V                                            |
| Current max:                                          | 200 mA                                           |
| Test voltage:                                         | 250 V DC, 2 sec                                  |
| Common mode impedance (EUT port)                      |                                                  |
| 150 kHz to 24 MHz:                                    | 150 $\Omega$ $\pm$ 20 $\Omega$                   |
| 24 MHz to 80 MHz:                                     | 150 $\Omega$ +60 $\Omega$ / -45 $\Omega$         |
| 80 MHz to 230 MHz:                                    | 150 $\Omega$ $\pm$ 60 $\Omega$                   |
| Coupling path (In/Out port/EUT)                       |                                                  |
| Connection:                                           | BNC 50 $\Omega$                                  |
| RF voltage:                                           | <15 V, refers to 25 V test level in 300 $\Omega$ |
| Voltage division factor (RF input to EUT port)        |                                                  |
| 150 kHz to 80 MHz:                                    | 9.5 dB $\pm$ 1 dB                                |
| 80 MHz to 230 MHz:                                    | 9.5 dB +3 dB / -2 dB                             |
| 3 dB Transmission bandwidth (wanted signal) EUT / AE: | > 20 kHz sin.                                    |
| Decoupling of CM disturbance (RF port / AE)           |                                                  |
| 150 kHz:                                              | >30 dB                                           |
| 1.5 MHz:                                              | >60 dB                                           |
| 30 MHz:                                               | >50 dB                                           |
| 230 MHz:                                              | >35 dB                                           |

# **CDN AF SERIES** **COUPLING / DECOUPLING NETWORK (CDN)** **CDN AF TYPE, CDN CAN**

## **Electrical specification of CDN CAN-U4, CDN CAN-U4-10 and CAN-U5**

|                                                |                                                                                                           |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Frequency range:                               | 150 kHz to 230 MHz (CDN CAN-U4-10:<br>10 kHz to 80 MHz)                                                   |
| Line parameters:                               | CAN bus                                                                                                   |
| Power rating (EUT- and AE Port)                |                                                                                                           |
| AC max. voltage:                               | 48 V                                                                                                      |
| DC max. voltage:                               | 48 V                                                                                                      |
| Current max:                                   | 3 A (pin 3 + 9, all other 0.5 A)                                                                          |
| Test voltage:                                  | 200 VDC, 2 sec                                                                                            |
| Common mode impedance (EUT port)               |                                                                                                           |
| 150 kHz to 24 MHz:                             | 150 $\Omega$ $\pm$ 20 $\Omega$<br>(CDN CAN-U4-10 from 10 kHz)                                             |
| 24 MHz to 80 MHz / 80 MHz to 230 MHz:          | 150 $\Omega$ +60 $\Omega$ / -45 $\Omega$ / 150 $\Omega$ $\pm$ 60 $\Omega$<br>(CDN CAN-U4-10 up to 80 MHz) |
| Coupling path (In/Out-port/EUT)                |                                                                                                           |
| Connection:                                    | BNC 50 $\Omega$                                                                                           |
| RF voltage:                                    | <20 V, refers to 33 V test level in 300 $\Omega$                                                          |
| Voltage division factor (RF input to EUT port) |                                                                                                           |
| 150 kHz to 80 MHz:                             | 9.5 dB $\pm$ 1 dB<br>(CDN CAN-U4, CDN CAN-U5)                                                             |
| 80 MHz to 230 MHz:                             | 9.5 dB +3/-2 dB<br>(CDN CAN-U4, CDN CAN-U5)                                                               |
| 10 kHz to 80 MHz:                              | 10 dB $\pm$ 1 dB (CDN CAN-U4-10)                                                                          |
| 3 dB Transmission bandwidth EUT / AE           |                                                                                                           |
| Symmetrical pair (pin 2 + 7):                  | >30 MHz sin.                                                                                              |
| all other lines:                               | >20 kHz sin.                                                                                              |
| Decoupling of CM disturbance (In-port / AE)    |                                                                                                           |
| 150 kHz:                                       | >30 dB (CDN CAN-U4, CDN CAN-U5)                                                                           |
| 1.5 MHz:                                       | >60 dB (CDN CAN-U4, CDN CAN-U5)                                                                           |
| 30 MHz:                                        | >50 dB (CDN CAN-U4, CDN CAN-U5)                                                                           |
| 230 MHz:                                       | >30 dB (CDN CAN-U4, CDN CAN-U5)                                                                           |
| 10 kHz:                                        | >10 dB (CDN CAN-U4-10)                                                                                    |
| 1.5 MHz:                                       | >35 dB (CDN CAN-U4-10)                                                                                    |
| 24 MHz:                                        | >45 dB (CDN CAN-U4-10)                                                                                    |
| 80 MHz:                                        | >25 dB (CDN CAN-U4-10)                                                                                    |

## **Mechanical specification**

|                   |                          |
|-------------------|--------------------------|
| Size (W x H x D): | 100 mm x 100 mm x 240 mm |
| Weight:           | approx. 1.5 kg           |



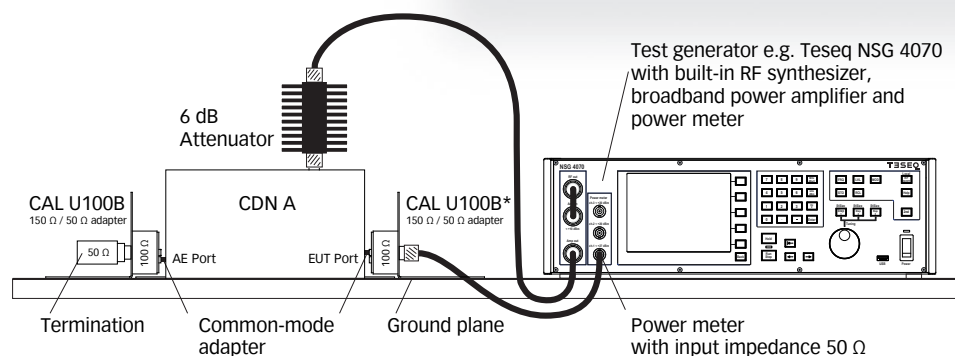
Advanced Test Solutions for EMC

# **CDN AF SERIES** **COUPLING / DECOUPLING NETWORK (CDN)** **CDN AF TYPE, CDN CAN**

## **Environmental conditions**

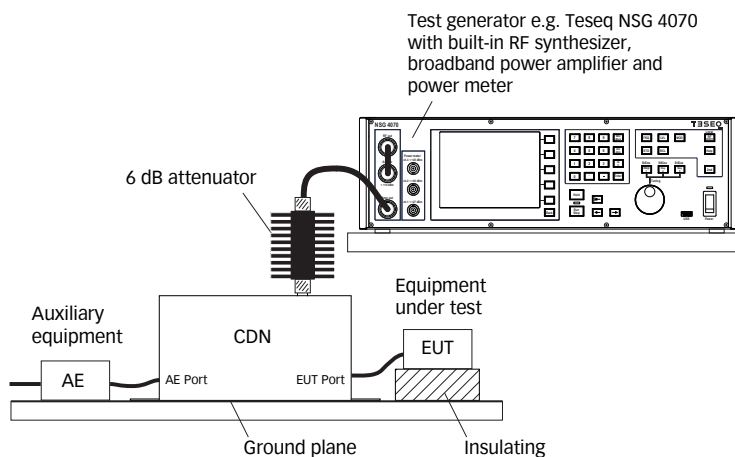
|                        |                 |
|------------------------|-----------------|
| Classification:        | Indoor use only |
| Operating temperature: | +5°C to +40 °C  |
| Relative humidity:     | up to 80%       |

## **Example of test set-up calibration**



\*) CAL U100M for CDN A with D-Sub connector at the EUT port

## **Example of EUT test set-up**



**T E S E Q**

Advanced Test Solutions for EMC

# CDN AF SERIES

## COUPLING / DECOUPLING NETWORK (CDN)

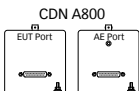
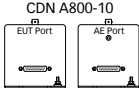
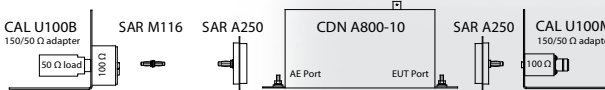
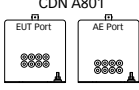
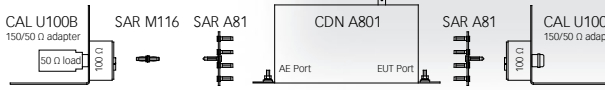
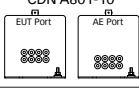
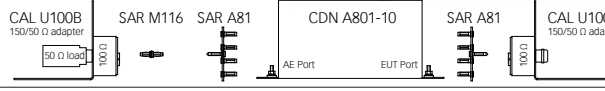
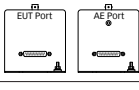
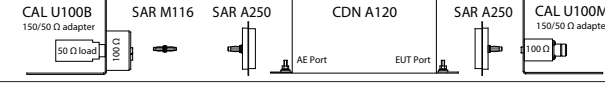
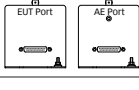
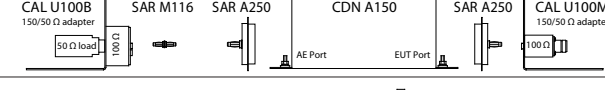
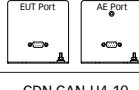
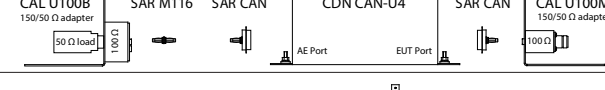
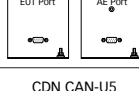
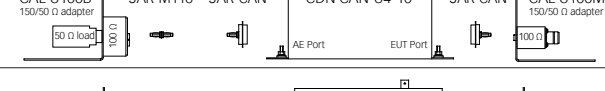
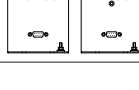
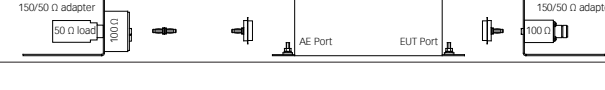
### CDN AF TYPE, CDN CAN

| Product       | Drawing | Adapters for test level setting (parts of the set option) |
|---------------|---------|-----------------------------------------------------------|
| CDN A201A     |         |                                                           |
| CDN A201A-50V |         |                                                           |
| CDN A201A-10  |         |                                                           |
| CDN A301A     |         |                                                           |
| CDN A301A-50V |         |                                                           |
| CDN A301A-10  |         |                                                           |
| CDN A401A     |         |                                                           |
| CDN A401A-50V |         |                                                           |
| CDN A401A-10  |         |                                                           |
| CDN A501      |         |                                                           |
| CDN A501-10   |         |                                                           |
| CDN A701      |         |                                                           |

# CDN AF SERIES

## COUPLING / DECOUPLING NETWORK (CDN)

### CDN AF TYPE, CDN CAN

| Product       | Drawing                                                                             | Adapters for test level setting (parts of the set option)                            |
|---------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| CDN A800      |    |    |
| CDN A800-10   |    |    |
| CDN A801      |   |   |
| CDN A801-10   |  |  |
| CDN A120      |  |  |
| CDN A150      |  |  |
| CDN CAN-U4    |  |  |
| CDN CAN-U4-10 |  |  |
| CDN CAN-U5    |  |  |

## **CDN AF SERIES**

### **COUPLING / DECOUPLING NETWORK (CDN)**

### **CDN AF TYPE, CDN CAN**

#### **Model No. and options**

| Product        | Description                                                                                                                                                                                   | Order code |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| CDN A120       | Coupling Decoupling Network for IEC 61000-4-6, type AF12, 230 MHz (D-Sub)                                                                                                                     | 247870     |
| CDN A120S      | Coupling Decoupling Network for IEC 61000-4-6, type AF12, 230 MHz (D-Sub) with calibration adapter in storage case, includes CAL U100M, CAL U100B, 2x SAR A250, SAR M116, A 50-N              | 247871     |
| CDN A150       | Coupling Decoupling Network for IEC 61000-4-6, type AF15, 230 MHz with sub-D                                                                                                                  | 243012     |
| CDN A150S      | Coupling Decoupling Network for IEC 61000-4-6, type AF15, 230 MHz with sub-D with calibration adapter set in storage case, includes CAL U100M, CAL U100B, 2x SAR A250, SAR M116, A 50-N       | 244126     |
| CDN A201A      | Coupling Decoupling Network for IEC 61000-4-6, type AF2, 230 MHz, 4 A, (banana)                                                                                                               | 256650     |
| CDN A201AS     | Coupling Decoupling Network for IEC 61000-4-6, type AF2, 230 MHz, 4 A, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N            | 256651     |
| CDN A201A-50V  | Coupling Decoupling Network for IEC 61000-4-6, type AF2, 230 MHz, 4 A, max. 50 V, (banana)                                                                                                    | 256768     |
| CDN A201A-50VS | Coupling Decoupling Network for IEC 61000-4-6, type AF2, 230 MHz, 4 A, max. 50 V, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 256769     |
| CDN A201A-10   | Coupling Decoupling Network for IEC 61000-4-6, type AF2, 10 kHz to 80 MHz, 4 A, (banana)                                                                                                      | 256661     |
| CDN A201A-10S  | Coupling Decoupling Network for IEC 61000-4-6, type AF2, 10 kHz to 80 MHz, 4 A, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N   | 256662     |
| CDN A301A      | Coupling Decoupling Network for IEC 61000-4-6, type AF3, 230 MHz, 4 A, (banana)                                                                                                               | 256652     |
| CDN A301AS     | Coupling Decoupling Network for IEC 61000-4-6, type AF3, 230 MHz, 4 A, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N            | 256653     |
| CDN A301A-50V  | Coupling Decoupling Network for IEC 61000-4-6, type AF3, 230 MHz, 4 A, max. 50 V, (banana)                                                                                                    | 256770     |
| CDN A301A-50VS | Coupling Decoupling Network for IEC 61000-4-6, type AF3, 230 MHz, 4 A, max. 50 V, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N | 256771     |
| CDN A301A-10   | Coupling Decoupling Network for IEC 61000-4-6, type AF3, 10 kHz to 80 MHz, 4 A, (banana)                                                                                                      | 256663     |
| CDN A301A-10S  | Coupling Decoupling Network for IEC 61000-4-6, type AF3, 10 kHz to 80 MHz, 4 A, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N   | 256664     |
| CDN A401A      | Coupling Decoupling Network for IEC 61000-4-6, type AF4, 230 MHz, 4 A, (banana)                                                                                                               | 256654     |
| CDN A401AS     | Coupling Decoupling Network for IEC 61000-4-6, type AF4, 230 MHz, 4 A, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N            | 256655     |
| CDN A401A-50V  | Coupling Decoupling Network for IEC 61000-4-6, type AF4, 230 MHz, 4 A, max. 50 V, (banana)                                                                                                    | 256772     |
| CDN A401A-50VS | Coupling Decoupling Network for IEC 61000-4-6, type AF4, 230 MHz, 4 A, max. 50 V, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N | 256773     |
| CDN A401A-10   | Coupling Decoupling Network for IEC 61000-4-6, type AF4, 10 kHz to 80 MHz, 4 A, (banana)                                                                                                      | 256665     |
| CDN A401A-10S  | Coupling Decoupling Network for IEC 61000-4-6, type AF4, 10 kHz to 80 MHz, 4 A, (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N   | 256666     |

## **CDN AF SERIES**

### **COUPLING / DECOUPLING NETWORK (CDN)**

### **CDN AF TYPE, CDN CAN**

#### **Model No. and options (continued)**

| Product        | Description                                                                                                                                                                                                     | Order code |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| CDN A501       | Coupling Decoupling Network for IEC 61000-4-6, type AF5, 230 MHz (banana)                                                                                                                                       | 243950     |
| CDN A501S      | Coupling Decoupling Network for IEC 61000-4-6, type AF5, 230 MHz (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA51, SAR M116, A 50-N                                    | 243951     |
| CDN A501-10    | Coupling Decoupling Network for IEC 61000-4-6, type AF5, 10 kHz to 80 MHz (banana)                                                                                                                              | 243865     |
| CDN A501-10S   | Coupling Decoupling Network for IEC 61000-4-6, type AF5, 10 kHz to 80 MHz (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA51, SAR M116, A 50-N                           | 243866     |
| CDN A701       | Coupling Decoupling Network for IEC 61000-4-6, type AF7, 230 MHz (banana)                                                                                                                                       | 247868     |
| CDN A701S      | Coupling Decoupling Network for IEC 61000-4-6, type AF7, 230 MHz (banana) with calibration adapter set in storage case, includes 2x CAL U100B, SAR A71, SAR M116, A 50-N                                        | 247869     |
| CDN A800       | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 230 MHz with sub-D                                                                                                                                     | 243010     |
| CDN A800S      | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 230 MHz with sub-D with calibration adapter set in storage case includes CAL U100M, CAL U100B, 2x SAR A250, SAR M116, A 50-N                           | 244124     |
| CDN A800-10    | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 10 kHz to 80 MHz with sub-D                                                                                                                            | 243014     |
| CDN A800-10S   | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 10 kHz to 80 MHz with sub-D with calibration adapter set in storage case, includes CAL U100M, CAL U100B, 2x SAR A250, SAR M116, A 50-N                 | 243015     |
| CDN A801       | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 230 MHz (banana)                                                                                                                                       | 243036     |
| CDN A801S      | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 230 MHz (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR A81, SAR M116, A 50-N                                     | 243037     |
| CDN A801-10    | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 10 kHz to 80 MHz (banana)                                                                                                                              | 243018     |
| CDN A801-10S   | Coupling Decoupling Network for IEC 61000-4-6, type AF8, 10 kHz to 80 MHz (banana) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR A81, SAR M116, A 50-N                            | 243957     |
| CDN CAN-U4     | Coupling Decoupling Network for IEC 61000-4-6, type for CAN Bus, unscreened 4 lines                                                                                                                             | 243005     |
| CDN CAN-U4S    | Coupling Decoupling Network for IEC 61000-4-6, type for CAN Bus, unscreened 4 lines with calibration adapter set in storage case, includes CAL U100M, CAL U100B, 2x SAR CAN, SAR M116, A 50-N                   | 243001     |
| CDN CAN-U4-10  | Coupling Decoupling Network for IEC 61000-4-6, type for CAN Bus, unscreened 4 lines, 10 kHz to 80 MHz                                                                                                           | 256656     |
| CDN CAN-U4-10S | Coupling Decoupling Network for IEC 61000-4-6, type for CAN Bus, unscreened 4 lines, 10 kHz to 80 MHz, with calibration adapter set in storage case includes CAL U100M, CAL U100B, 2x SAR CAN, SAR M116, A 50-N | 256657     |
| CDN CAN-U5     | Coupling Decoupling Network for IEC 61000-4-6, type for CAN Bus, unscreened 5 lines                                                                                                                             | 243006     |
| CDN CAN-U5S    | Coupling Decoupling Network for IEC 61000-4-6, type for CAN Bus, unscreened 5 lines with calibration adapter set in storage case, includes CAL U100M, CAL U100B, 2x SAR CAN, SAR M116, A 50-N                   | 243002     |
| CDN-TC         | Traceable calibration (ISO17025) for IEC 61000-4-6 requirements, order only with device CDN M, AF or S type                                                                                                     | 97-231024  |

## **CDN AF SERIES**

# **COUPLING / DECOUPLING NETWORK (CDN)**

# **CDN AF TYPE, CDN CAN**

### **Model No. and options (continued)**

| Product         | Description                                                                                                                 | Order code |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------|------------|
| CDN-DAkKS       | DAkKS accredited calibration (ISO17025) for impedance and VDF in the frequency range of the CDN, order only with the device | 98-231024  |
| CAL U100B       | Universal calibration unit (150 $\Omega$ / 50 $\Omega$ adapter)                                                             | 247825     |
| CAL U100M       | Universal calibration unit (150 $\Omega$ / 50 $\Omega$ adapter)                                                             | 257138     |
| CAL U100X-TC    | Traceable calibration (ISO17025), order only with CAL U100x device                                                          | 97-247825  |
| CAL U100X-DAkKS | DAkKS accredited calibration (ISO17025), order only with CAL U100x device                                                   | 98-247825  |
| IMA U100        | Universal impedance measuring adapter (0 $\Omega$ )                                                                         | 239902     |
| IMA U100M       | Universal impedance measuring adapter (0 $\Omega$ )                                                                         | 257137     |
| SAR A250        | Common mode adapter for CDN A120, A150 and A800                                                                             | 243050     |
| SAR A71         | Common mode adapter for CDN A701, 4 mm banana                                                                               | 247829     |
| SAR A81         | Common mode adapter for CDN A801, 4 mm banana                                                                               | 247834     |
| SAR CAN         | Common mode adapter for CDN CAN                                                                                             | 243689     |
| SAR M116        | Adapter 4 mm banana                                                                                                         | 239915     |
| SAR MA21        | Common mode adapter for CDN A2, M2, T202, 4 mm banana                                                                       | 247827     |
| SAR MA31        | Common mode adapter for CDN A3, M3, 4 mm banana                                                                             | 247828     |
| SAR MA41        | Common mode adapter for CDN A4, M4, T402, 4 mm banana                                                                       | 247831     |
| SAR MA51        | Common mode adapter for CDN A5, M5, 4 mm banana                                                                             | 243873     |
| A 50-BNC        | Termination 50 Ohms, BNC type, male                                                                                         | 257520     |
| A 50-N          | Termination 50 Ohms, N type, male, 1 Watt, 2.5 GHz                                                                          | 257521     |

**AMETEK CTS Europe GmbH**  
 Landsberger Str. 255 · 12623 Berlin · Germany  
 T +49 30 56 59 88 35 F +49 30 56 59 88 34  
 customercare.cts@ametek.com  
**www.ametek-cts.com**

© December 2021 Teseq®  
 Specifications subject to change without notice.  
 Teseq® is an ISO-registered company. Its products are designed and manufactured under the strict quality and environmental requirements of the ISO 9001. This document has been carefully checked. However, Teseq® does not assume any liability for errors or inaccuracies.

82-239966 E06 December 2021