



CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE



CDN M016

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. Teseq 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).

- Coupling networks designed for IEC / EN 61000-4-6
- M series for mains applications
- Models with 4 mm banana sockets
- Models with frequency range 10 kHz to 80 MHz, 150 kHz to 230 MHz or up to 300 MHz
- Very efficient coupling also for 100 Amps CDNs

Product range 10 kHz to 80 MHz

| CDN type | Product name | Application | Max. current | Connector EUT and AE port |
|----------|---------------------|--|--------------|---------------------------|
| M1 | CDN M1-10 | 1 PE line | 16 A / 0.3 A | 4 mm safety banana |
| M2 | CDN M216-10 | 2 power lines, (L+N), (DC+, DC-) | 16 A | 4 mm safety banana |
| M2 | CDN M232-10 | 2 power lines, (L+N), (DC+, DC-) | 32 A | 4 mm safety banana |
| M2 | CDN M232-760V-10 | 2 power lines, (L+N), (DC+, DC-) 760 VAC, 1000 VDC | 32 A | 4 mm safety banana |
| M3 | CDN M316-10 | 3 power lines, (L+N+PE), (2L+PE) | 16 A | 4 mm safety banana |
| M3 | CDN M316-3L-10 | 3 power lines, (3L) | 16 A | 4 mm safety banana |
| M3 | CDN M332-10 | 3 power lines, (L+N+PE), (2L+PE) | 32 A | 4 mm safety banana |
| M3 | CDN M332-760V-10 | 3 power lines, (L+N+PE), (2L+PE) 760 VAC | 32 A | 4 mm safety banana |
| M3 | CDN M332-3L-760V-10 | 3 power lines, (3L) 760 VAC | 32 A | 4 mm safety banana |

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COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Product range 10 kHz to 80 MHz (continued)

| CDN type | Product name | Application | Max. current | Connector EUT and AE port |
|----------|----------------------|--|--------------|---------------------------|
| M4 | CDN M432-10 | 4 power lines, (2L+N+PE), (3L+PE) | 32 A | 4 mm safety banana |
| M4 | CDN M432-760V-10 | 4 power lines, (2L+N+PE), (3L+PE) 760 VAC | 32 A | 4 mm safety banana |
| M4 | CDN M432-3LN-10 | 4 power lines, (3L+N) | 32 A | 4 mm safety banana |
| M4 | CDN M432-3LN-760V-10 | 4 power lines, (3L+N) 760 VAC | 32 A | 4 mm safety banana |
| M5 | CDN M532-10 | 5 power lines, (3L+N+PE) | 32 A | 4 mm safety banana |
| M5 | CDN M532-760V-10 | 5 power lines, (3L+N+PE) 760 VAC | 32 A | 4 mm safety banana |

CDN M SERIES

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Product range 150 kHz to 80/230 (300) MHz

| CDN type | Product name | Application | Max. current | Connector EUT port | Connector AE port |
|----------|-----------------|--|--------------|---|---|
| M1 | CDN M116 | 1 PE line | 16 A / 1 A | 4 mm safety banana | 4 mm safety banana |
| M1 | CDN M132 | 1 PE line | 32 A / 1 A | 4 mm safety banana | 4 mm safety banana |
| M2 | CDN M210B | 2 power lines | 10 A | CEE 7 / 7  | IEC 60320 C14  |
| M2 | CDN M216 | 2 power lines, (L+N), (DC+, DC-) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M2 | CDN M216-1000V | 2 power lines, (L+N), (DC+, DC-), 1000 VAC, 2000 VDC | 16 A | 4 mm safety banana | 4 mm safety banana |
| M2/M3 | CDN M016 | Switchable 2 or 3 power lines, (L+N or L+N+PE) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M2 | CDN M232 | 2 power lines, (L+N), (DC+, DC-) | 32 A | 4 mm safety banana | 4 mm safety banana |
| M2 | CDN M232-1000V | 2 power lines, (L+N), (DC+, DC-), 1000 VAC, 2000 VDC | 32 A | 4 mm safety banana | 4 mm safety banana |
| M2 | CDN M2-100 | 2 power lines, (L+N), (DC+, DC-) | 100 A | Terminal block | Terminal block |
| M2 | CDN M2-100-750V | 2 power lines, (L+N), (DC+, DC-), 750 VAC, 1000 VDC | 100 A | Terminal block | Terminal block |
| M3 | CDN M310B | 3 power lines, (L+N+PE) | 10 A | Schuko, CEE 7 / 4  | IEC 60320 C14  |
| M3 | CDN M316 | 3 power lines, (L+N+PE), (2L+PE) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M3 | CDN M316-1000V | 3 power lines, (L+N+PE), (2L+PE), 1000 VAC | 16 A | 4 mm safety banana | 4 mm safety banana |
| M3 | CDN M316-3L | 3 power lines, (L+L+L) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M3 | CDN M316B | 3 power lines, (L+N+PE), (2L+PE) | 16 A | 4 mm safety banana | IEC 60320 C20  |
| M3 | CDN M332 | 3 power lines, (L+N+PE), (2L+PE) | 32 A | 4 mm safety banana | 4 mm safety banana |
| M3 | CDN M332-1000V | 3 power lines, (L+N+PE), (2L+PE), 1000 VAC | 32 A | 4 mm safety banana | 4 mm safety banana |
| M3 | CDN M332-3L | 3 power lines, (3L) | 32 A | 4 mm safety banana | 4 mm safety banana |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Product range 150 kHz to 80/230 (300) MHz (continued)

| CDN type | Product name | Application | Max. current | Connector EUT port | Connector AE port |
|----------|---------------------|---|--------------|--------------------|--------------------|
| M3 | CDN M332-3L-1000V | 3 power lines, (3L), 1000 VAC | 32 A | 4 mm safety banana | 4 mm safety banana |
| M3 | CDN M3-100 | 3 power lines, (L+N+PE), (2L+PE) | 100 A | Terminal block | Terminal block |
| M3 | CDN M3-100-3L | 3 power lines, (3L) | 100 A | Terminal block | Terminal block |
| M3 | CDN M3-100-750V | 3 power lines, (L+N+PE), (2L+PE), 750 VAC | 100 A | Terminal block | Terminal block |
| M3 | CDN M3-100-3L-750V | 3 power lines, (3L), 750 VAC | 100 A | Terminal block | Terminal block |
| M4 | CDN M416A | 4 power lines, (2L+N+PE), (3L+PE) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M4 | CDN M416A-3LN | 4 power lines, (3L+N) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M4 | CDN M432 | 4 power lines, (2L+N+PE), (3L+PE) | 32 A | 4 mm safety banana | 4 mm safety banana |
| M4 | CDN M432-1000V | 4 power lines, (2L+N+PE), (3L+PE), 1000 VAC | 32 A | 4 mm safety banana | 4 mm safety banana |
| M4 | CDN M432-3LN | 4 power lines, (3L+N) | 32 A | 4 mm safety banana | 4 mm safety banana |
| M4 | CDN M432-3LN-1000V | 4 power lines, (3L+N), 1000 VAC | 32 A | 4 mm safety banana | 4 mm safety banana |
| M4 | CDN M4-100 | 4 power lines, (2L+N+PE), (3L+PE) | 100 A | Terminal block | Terminal block |
| M4 | CDN M4-100-3LN | 4 power lines, (3L+N) | 100 A | Terminal block | Terminal block |
| M4 | CDN M4-100-750V | 4 power lines, (2L+N+PE), (3L+PE), 750 VAC | 100 A | Terminal block | Terminal block |
| M4 | CDN M4-100-3LN-750V | 4 power lines, (3L+N), 750 VAC | 100 A | Terminal block | Terminal block |
| M5 | CDN M516A | 5 power lines, (3L+N+PE) | 16 A | 4 mm safety banana | 4 mm safety banana |
| M5 | CDN M532 | 5 power lines, (3L+N+PE) | 32 A | 4 mm safety banana | 4 mm safety banana |
| M5 | CDN M532-1000V | 5 power lines, (3L+N+PE), 1000 VAC | 32 A | 4 mm safety banana | 4 mm safety banana |
| M5 | CDN M5-100 | 5 power lines, (3L+N+PE) | 100 A | Terminal block | Terminal block |
| M5 | CDN M5-100-750V | 5 power lines, (3L+N+PE), 750 VAC | 100 A | Terminal block | Terminal block |

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CDN M TYPE

Electrical specification CDN M1-10

| | |
|--|--|
| Frequency range: | 10 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| Current max. (no saturation): | 300 mA |
| Current max.: | 16 A, (25 A for 1 s PE line test) |
| Common mode impedance (EUT port) | |
| 10 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <20 V, refers to 33 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 10 kHz to 80 MHz: | 10 dB \pm 1 dB |
| Insertion loss (EUT/AE) f < 400 Hz: | <0.1 dB |

Electrical specification CDN M216-10, M316-10 and M316-3L-10

| | |
|--|--|
| Frequency range: | 10 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 250 V / 433 V |
| DC max. voltage (line to ground)/(line to line): | 400 V / 800 V |
| Current max.: | 16 A ¹⁾ |
| Test voltage: | 3 kVDC, 2 sec |
| Common mode impedance (EUT port) | |
| 10 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 10 kHz to 80 MHz: | 10 dB \pm 1 dB |
| Insertion loss (EUT/AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port/AE) typ. | |
| 10 kHz: | >10 dB |
| 150 kHz: | >35 dB |
| 26 MHz: | >45 dB |
| 80 MHz: | >25 dB |

¹⁾ Operation time at 40°C with 16 A max. 25 min cooling time of 25 min required, operation time at 23°C with 16 A max. 35 min cooling time of 70 min required

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE



CDN M432

Electrical specification CDN M232-10, M332-10, M432-10, M432-3LN-10 and M532-10

| | |
|--|--|
| Frequency range: | 10 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 300 V / 520 V |
| DC max. voltage (line to ground)/(line to line): | 400 V / 600 V |
| Current max.: | 32 A (60 min) |
| Test voltage: | 3 kVDC, 2 sec |
| Common mode impedance (EUT port) | |
| 10 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 10 kHz to 80 MHz: | 10 dB \pm 1 dB |
| Insertion loss (EUT/AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port/AE) typ. | |
| 10 kHz: | >10 dB |
| 150 kHz: | >35 dB |
| 26 MHz: | >45 dB |
| 80 MHz: | >25 dB |

Electrical specification CDN M232-760V-10, CDN M332-760V-10, CDN M332-3L-760V-10, CDN M432-760V-10, CDN M432-3LN-760V-10, CDN M532-760V-10

| | |
|--|--|
| Frequency range: | 10 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 500 V / 760 V |
| DC max. voltage (line to ground)/(line to line): | 1000 V / 1000 V |
| Current max.: | 32 A (60 min) |
| Test voltage: | 4.7 kVDC, 2 sec |
| Common mode impedance (EUT port) | |
| 10 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 10 kHz to 80 MHz: | 10 dB +1 dB / -2 dB |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M232-760V-10 CDN M332-760V-10, CDN M332-3L-760V-10, CDN M432-760V-10, CDN M432-3LN-760V-10, CDN M532-760V-10 (continued)

| | |
|--|---------|
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 10 kHz: | >10 dB |
| 150 kHz: | >35 dB |
| 26 MHz: | >45 dB |
| 80 MHz: | >25 dB |

Electrical specification CDN M116 and CDN M132

| | |
|--|---|
| Frequency range: | 150 kHz to 230 MHz (300 MHz) |
| Power rating (EUT- and AE port) | |
| Current max. (no saturation): | 1 A |
| Current max.: | for CDN M116: 16 A, (25 A for 1 s PE line test), for CDN M132: 32 A |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 230 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In / Out port / EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <20 V, refers to 33 V test level in 300 Ω |
| 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 |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 150 kHz: | >70 dB |
| 1.5 MHz: | >60 dB |
| 30 MHz: | >55 dB |
| 230 MHz: | >35 dB |

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COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M016, M210B, M216, M216-1000V, M310B, M316, M316-3L and M316B

| | |
|--|--|
| Frequency range: | 150 kHz to 230 MHz (300 MHz) ¹⁾ |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 250 V / 433 V (CDN M216-1000V: 500 V / 1000 V) |
| DC max. voltage (line to ground)/(line to line): | 400 V / 800 V (CDN M216-1000V: 1000 V / 2000 V) |
| Current max.: | 16 A ²⁾ (CDN M210B, CDN M310B: 10A) |
| Test voltage: | 3 kVDC, 2 sec |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω ±20 Ω |
| 26 MHz to 230 MHz: | 150 Ω +60 Ω / -45 Ω |
| (230 MHz to 300 MHz): ¹⁾ | 150 Ω +60 Ω / -60 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 150 kHz to 80 MHz: | 9.5 dB ±1 dB |
| 80 MHz to 230 MHz: | 9.5 dB +3 dB / -2 dB |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port/AE) typ. | |
| 150 kHz: | >30 dB |
| 1.5 MHz: | >60 dB |
| 30 MHz: | >40 dB |
| 230 MHz: | >20 dB |

¹⁾ The classification for the range 230 to 300 MHz can be selected as option for CDN M016, CDN M216 and CDN M316.

²⁾ Operation time at 40°C with 16 A max. 25 min cooling time of 25 min required, operation time at 23°C with 16 A max. 35 min cooling time of 70 min required

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M316-1000V

| | |
|--|--|
| Frequency range: | 150 kHz to 230 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 500 V / 1000 V |
| DC max. voltage (line to ground)/(line to line): | 1000 V / 2000 V |
| Current max.: | 16 A ¹⁾ |
| Test voltage: | 3 kVDC, 1 min |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 230 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| 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 |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port/AE) typ. | |
| 150 kHz: | >25 dB |
| 1.5 MHz: | >60 dB |
| 30 MHz: | >40 dB |
| 230 MHz: | >10 dB |

¹⁾ Operation time at 40°C with 16 A max. 25 min cooling time of 25 min required, operation time at 23°C with 16 A max. 35 min cooling time of 70 min required

Electrical specification CDN M232-1000V

| | |
|--|--|
| Frequency range: | 150 kHz to 230 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 500 V / 1000 V |
| DC max. voltage (line to ground)/(line to line): | 1000 V / 2000 V |
| Current max.: | 32 A |
| Test voltage: | 3 kVDC, 1 min |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 230 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M232-1000V (continued)

| | |
|--|------------------|
| 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 |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 150 kHz: | >20 dB |
| 1.5 MHz: | >50 dB |
| 30 MHz: | >40 dB |
| 230 MHz: | >20 dB |

Electrical specification CDN M332-1000V, CDN M332-3L-1000V, CDN M432-1000V, CDN M432-3LN-1000V, CDN M532-1000V

| | |
|--|--|
| Frequency range: | 150 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground) / (line to line): | 500 V / 1000 V |
| DC max. voltage (line to ground) / (line to line): | 1000 V / 2000 V |
| Current max.: | 32 A |
| Test voltage: | 3 kVDC, 1 min |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω \pm 20 Ω |
| 26 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In / Out port / EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 150 kHz to 80 MHz: | 10 dB +1 dB / -2 dB |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 150 kHz: | >20 dB |
| 1.5 MHz: | >50 dB |
| 30 MHz: | >40 dB |
| 230 MHz: | >20 dB |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M416A, M416A-3LN and M516A

| | |
|--|---|
| Frequency range: | 150 kHz to 230 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 300 V / 520 V |
| DC max. voltage (line to ground)/(line to line): | 400 V / 600 V |
| Current max.: | 16 A ¹⁾ |
| Test voltage: | 3 kVDC, 2 sec |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω ±20 Ω |
| 26 MHz to 230 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 150 kHz to 80 MHz: | 10 dB ±1 dB |
| 80 MHz to 230 MHz: | 10 dB ±2 dB |
| Insertion loss (EUT /AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port/AE) typ. | |
| 150 kHz: | >30 dB |
| 1.5 MHz: | >60 dB |
| 30 MHz: | >40 dB |
| 230 MHz: | >20 dB |

¹⁾ Operation time at 40°C with 16 A max. 25 min cooling time of 25 min required, operation time at 23°C with 16 A max. 35 min cooling time of 70 min required

Electrical specification CDN M232, M332, M332-3L, M432, M432-3LN and M532

| | |
|--|---|
| Frequency range: | 150 kHz to 230 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 300 V / 520 V |
| DC max. voltage (line to ground)/(line to line): | 400 V / 600 V |
| Current max.: | 32 A |
| Test voltage: | 3 kVDC, 2 sec |
| Common mode impedance (EUT port) | |
| 150 kHz to 26 MHz: | 150 Ω ±20 Ω |
| 26 MHz to 230 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M232, M332, M332-3L, M432, M432-3LN and M532 (continued)

| | |
|---|---------------------|
| Voltage division factor (RF input to EUT port) 150 kHz to 230 MHz: | 10 dB +3 dB / -1 dB |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 150 kHz: | >20 dB |
| 1.5 MHz: | >50 dB |
| 30 MHz: | >50 dB |
| 230 MHz: | >20 dB |

Electrical specification CDN M2-100, CDN M3-100, CDN M3-100-3L, CDN M4-100, CDN M4-100-3LN and CDN M5-100

| | |
|--|--|
| Frequency range: | 150 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground) / (line to line): | 300 V / 520 V |
| DC max. voltage (line to ground) / (line to line): | 400 V / 600 V |
| Current max.: | 100 A (max. 1 hour) |
| Test voltage: | 3 kVDC, 30 sec |
| Common mode impedance (EUT port) | |
| 150 kHz to 24 MHz: | 150 Ω \pm 20 Ω |
| 24 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In / Out port / EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 150 kHz to 24 MHz: | 10 dB \pm 1 dB |
| 24 MHz to 80 MHz: | for M2 and M3: 10 dB \pm 1 dB for M4 and M5: 10 dB +2 / -1 dB |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 150 kHz: | >20 dB |
| 1.5 MHz: | >50 dB |
| 30 MHz: | >40 dB |
| 80 MHz: | >20 dB |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Electrical specification CDN M2-100-750V, CDN M3-100-750V, CDN M3-100-3L-750V, CDN M4-100-750V, CDN M4-100-3LN-750V and CDN M5-100-750V

| | |
|--|--|
| Frequency range: | 150 kHz to 80 MHz |
| Power rating (EUT- and AE port) | |
| AC max. voltage (line to ground)/(line to line): | 750 V / 750 V according EN 60998-1 |
| AC max. voltage (line to ground)/(line to line): | 600 V / 600 V according UL 1059 |
| DC max. voltage (line to ground)/(line to line): | 1000 V / 1000 V according EN 60998-1 |
| DC max. voltage (line to ground)/(line to line): | 850 V / 850 V according UL 1059 |
| Current max.: | 100 A (for M2 and M3: max. 60 min , for M4 and M5: max. 45 min) |
| Test voltage: | 4 kVDC, 30 sec |
| Common mode impedance (EUT port) | |
| 150 kHz to 24 MHz: | 150 Ω \pm 20 Ω |
| 24 MHz to 80 MHz: | 150 Ω +60 Ω / -45 Ω |
| Coupling path (In/Out port/EUT) | |
| Connection: | BNC 50 Ω |
| RF voltage: | <30 V, refers to 50 V test level in 300 Ω |
| Voltage division factor (RF input to EUT port) | |
| 150 kHz to 80 MHz: | 10 dB \pm 1 dB |
| 24 MHz to 80 MHz: | for M2 and M3: 10 dB \pm 1 dB for M4 and M5: 10 dB +2 / -1 dB |
| Insertion loss (EUT / AE) f < 400 Hz: | <0.1 dB |
| Decoupling of CM disturbance (RF port / AE) typ. | |
| 150 kHz: | >20 dB |
| 1.5 MHz: | >50 dB |
| 30 MHz: | >40 dB |
| 80 MHz: | >20 dB |

Mechanical specification for types with max. 16 A inclusive CDN M116 and CDN M132

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

Mechanical specification for types with 32 A (exclusive CDN M132)

| | |
|-------------------|--------------------------|
| Size (W x H x D): | 160 mm x 160 mm x 470 mm |
| Weight: | approx. 6.5 kg |

CDN M SERIES COUPLING / DECOUPLING NETWORK (CDN) CDN M TYPE

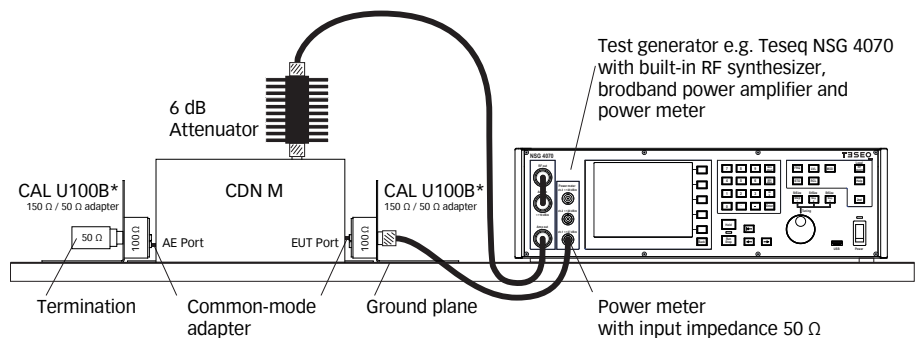
Mechanical specification for types with 100 A

| | |
|-------------------|---|
| Size (W x H x D): | 200 mm x 200 mm x 470 mm |
| Weight: | M2: 9 kg, M3: 10 kg, M4: 11 kg, M5: 12 kg |

Environmental conditions

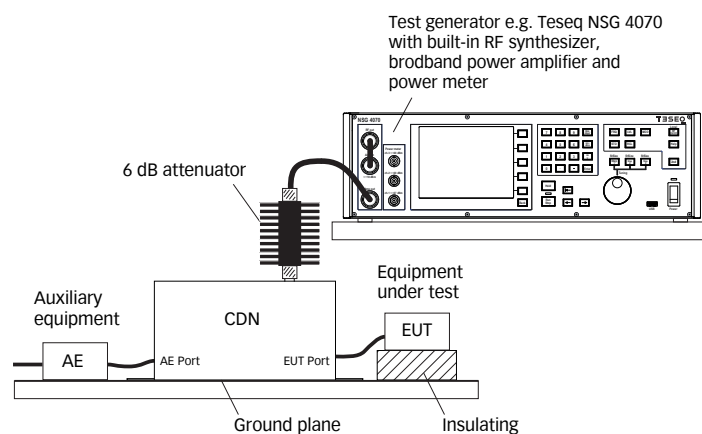
| | |
|------------------------|-----------------|
| Classification: | Indoor use only |
| Operating temperature: | +5°C to +40°C |
| Relative humidity: | up to 80% |

Example of test set-up calibration



*) CAL U100M for 100 Amps CDNs with terminal block

Example of EUT test set-up



TESEO

Advanced Test Solutions for EMC

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options

| Product | Description | Order code |
|-----------------|---|------------|
| CDN M016 | Coupling Decoupling Network for IEC 61000-4-6, type M2/3 switchable, 16 A, 230 (300) MHz (banana), L, N, PE or L,N | 231024 |
| CDN M016S | Coupling Decoupling Network for IEC 61000-4-6, type M2/3 switchable, 16 A, 230 (300) MHz (banana), L, N, PE or L,N with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, 2x SAR M300, SAR M116, A 50-N | 244117 |
| CDN M116 | Coupling Decoupling Network for IEC 61000-4-6, type M1, 16 A (max. 1 A no saturation), 230 MHz (300 MHz) (banana), PE | 231001 |
| CDN M116S | Coupling Decoupling Network for IEC 61000-4-6, type M1, 16 A (max. 1 A no saturation), PE with calibration adapter set in storage case, includes CAL U100B, SAR M116 | 244111 |
| CDN M1-10 | Coupling Decoupling Network for IEC 61000-4-6, type M1, 16 A (max. 0.3 A no saturation), 10 kHz to 80 MHz (banana), PE | 242475 |
| CDN M1-10S | Coupling Decoupling Network for IEC 61000-4-6, type M1, 16 A (max. 0.3 A no saturation), 10 kHz to 80 MHz (banana), PE with calibration adapter set in storage case, includes CAL U100B, SAR M116 | 242482 |
| CDN M132 | Coupling Decoupling Network for IEC 61000-4-6, type M1, 32 A (max. 1 A no saturation), 230 MHz (300 MHz) (banana), PE | 256658 |
| CDN M132S | Coupling Decoupling Network for IEC 61000-4-6, type M1, 32 A (max. 1 A no saturation), 230 MHz (300 MHz) (banana), PE with calibration adapter set in storage case, includes CAL U100B, SAR M116 | 256667 |
| CDN M210B | Coupling Decoupling Network for IEC 61000-4-6, type M2, 10 A, 230 (300) MHz (AE Euro, EUT-socket 2lines), L,N | 237504 |
| CDN M210BS | Coupling Decoupling Network for IEC 61000-4-6, type M2, 10 A, 230 (300) MHz (AE Euro, EUT-socket 2lines), L,N with calibration adapter set in storage case, includes CAL U100B, SAR M210, TRA M21B | 244113 |
| CDN M216 | Coupling Decoupling Network for IEC 61000-4-6, type M2, 16 A, 230 (300) MHz (banana), L,N | 231002 |
| CDN M216S | Coupling Decoupling Network for IEC 61000-4-6, type M2, 16 A, 230 (300) MHz (banana), L,N with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 244112 |
| CDN M216-10 | Coupling Decoupling Network for IEC 61000-4-6, type M2 16 A, 10 kHz to 80 MHz (banana), L,N | 242476 |
| CDN M216-10S | Coupling Decoupling Network for IEC 61000-4-6, type M2 16 A, 10 kHz to 80 MHz (banana), L,N with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 242483 |
| CDN M216-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M2, 16 A, 230 (300) MHz (banana), 1000 VAC, 2000 VDC, L, N or DC+, DC- | 247775 |
| CDN M216-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M2, 16 A, 230 (300) MHz (banana), 1000 VAC, 2000 VDC, L, N or DC+, DC- with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 247776 |
| CDN M232 | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 230 MHz (banana), L,N or DC | 244259 |
| CDN M232S | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 230 MHz (banana), L,N or DC with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 244291 |
| CDN M232-10 | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 10 kHz to 80 MHz (banana), L,N or DC | 244299 |
| CDN M232-10S | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 10 kHz to 80 MHz (banana), L,N or DC with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 247788 |
| CDN M232-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 230 MHz (banana), 1000 VAC, 2000 VDC, L, N or DC+, DC- | 256670 |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options (continued)

| Product | Description | Order code |
|-------------------|--|------------|
| CDN M232-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 230 MHz (banana), 1000 VAC, 2000 VDC, L, N or DC+, DC- with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 256671 |
| CDN M232-760V-10 | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 1000 VDC, L, N or DC+, DC- | 257850 |
| CDN M232-760V-10S | Coupling Decoupling Network for IEC 61000-4-6, type M2, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 1000 VDC, L, N or DC+, DC- with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA21, SAR M116, A 50-N | 257851 |
| CDN M2-100 | Coupling Decoupling Network for IEC 61000-4-6, type M2, 100 A, 150 kHz-80 MHz (terminal block), L,N or DC | 257150 |
| CDN M2-100S | Coupling Decoupling Network for IEC 61000-4-6, type M2, 100 A, 150 kHz-80 MHz (terminal block), L,N or DC with calibration adapter set in storage case, includes 2x CAL U100M, 2x SAR MA21M, SAR M116, A 50-N | 257151 |
| CDN M2-100-750V | Coupling Decoupling Network for IEC 61000-4-6, type M2, 100 A, 150 kHz-80 MHz (terminal block), L,N or DC | 257162 |
| CDN M2-100-750VS | Coupling Decoupling Network for IEC 61000-4-6, type M2, 100 A, 150 kHz-80 MHz (terminal block), L,N or DC with calibration adapter set in storage case, includes 2x CAL U100M, 2x SAR MA21M, SAR M116, A 50-N | 257163 |
| CDN M310B | Coupling Decoupling Network for IEC 61000-4-6, type M3, 10 A, 230 (300) MHz (AE Euro, EUT Schuko) | 237505 |
| CDN M310BS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 10 A, 230 (300) MHz (AE Euro, EUT Schuko) with calibration adapter set in storage case, includes CAL U100B, SAR M310, TRA M21B | 244116 |
| CDN M316 | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 (300) MHz (banana), L,N,PE | 231003 |
| CDN M316S | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 (300) MHz (banana), L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 244114 |
| CDN M316-10 | Coupling Decoupling Network for IEC 61000-4-6, type M3 16 A, 10 kHz to 80 MHz (banana), L,N,PE | 242477 |
| CDN M316-10S | Coupling Decoupling Network for IEC 61000-4-6, type M3 16 A, 10 kHz to 80 MHz (banana), L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 242484 |
| CDN M316-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 MHz (banana), 1000 VAC, 2000 VDC, L,N,PE | 256668 |
| CDN M316-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 MHz (banana), 1000 VAC, 2000 VDC, L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 256669 |
| CDN M316-3L | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 (300) MHz (banana), 3x L | 243068 |
| CDN M316-3LS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 (300) MHz (banana), 3x L, with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N | 243069 |
| CDN M316-3L-10 | Coupling Decoupling Network for IEC 61000-4-6, type M3 16 A, 10 kHz-80 MHz (banana), 3xL | 256764 |
| CDN M316-3L-10S | Coupling Decoupling Network for IEC 61000-4-6, type M3 16 A, 10 kHz-80 MHz (banana), 3x L with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N | 256765 |
| CDN M316B | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 (300) MHz (AE Euro, EUT banana), L,N,PE | 231019 |
| CDN M316BS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 16 A, 230 (300) MHz (AE Euro, EUT banana), L,N,PE with calibration adapter set in storage case, includes CAL U100B, SAR MA31, TRA M36B | 244115 |
| CDN M332 | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 230 MHz (banana), L,N,PE | 244260 |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options (continued)

| Product | Description | Order code |
|----------------------|---|------------|
| CDN M332S | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 230 MHz (banana), L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 244292 |
| CDN M332-3L | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 230 MHz (banana), 3xL | 256659 |
| CDN M332-3LS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 230 MHz (banana), 3xL with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N | 256660 |
| CDN M332-10 | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 10 kHz to 80 MHz (banana), L,N,PE | 244298 |
| CDN M332-10S | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 10 kHz to 80 MHz (banana), L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 247787 |
| CDN M332-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, L,N,PE | 256672 |
| CDN M332-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 256673 |
| CDN M332-760V-10 | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 10 kHz-80 MHz (banana), 760 VAC, L,N,PE | 257852 |
| CDN M332-760V-10S | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 10 kHz-80 MHz (banana), 760 VAC, L,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA31, SAR M300, SAR M116, A 50-N | 257853 |
| CDN M332-3L-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL | 256750 |
| CDN M332-3L-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N | 256751 |
| CDN M332-3L-760V-10 | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL | 257854 |
| CDN M332-3L-760V-10S | Coupling Decoupling Network for IEC 61000-4-6, type M3, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA31, SAR M116, A 50-N | 257855 |
| CDN M3-100 | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), L,N,PE | 257152 |
| CDN M3-100S | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), L,N,PE with calibration adapter set in storage case, includes 2x CAL U100M, SAR MA31M, SAR M300M, SAR M116, A 50-N | 257153 |
| CDN M3-100-3L | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), 3xL | 257154 |
| CDN M3-100-3LS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), 3xL with calibration adapter set in storage case, includes 2x CAL U100M, 2xSAR MA31M, SAR M116, A 50-N | 257155 |
| CDN M3-100-750V | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, L,N,PE | 257164 |
| CDN M3-100-750VS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, L,N,PE with calibration adapter set in storage case, includes 2x CAL U100M, SAR MA31M, SAR M300M, SAR M116, A 50-N | 257165 |
| CDN M3-100-3L-750V | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL | 257166 |
| CDN M3-100-3L-750VS | Coupling Decoupling Network for IEC 61000-4-6, type M3, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL with calibration adapter set in storage case, includes 2x CAL U100M, 2xSAR MA31M, SAR M116, A 50-N | 257167 |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options (continued)

| Product | Description | Order code |
|-----------------------|---|------------|
| CDN M416A | Coupling Decoupling Network for IEC 61000-4-6, type M4, 16 A, 230 MHz (banana), 3xL,PE | 231020 |
| CDN M416AS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 16 A, 230 MHz (banana), 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA41, SAR M400, SAR M116, A 50-N | 244118 |
| CDN M416A-3LN | Coupling Decoupling Network for IEC 61000-4-6, type M4, 16 A, 230 MHz (banana), 3xL,N (without PE line) | 244166 |
| CDN M416A-3LNS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 16 A, 230 MHz (banana), 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N | 244167 |
| CDN M432 | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 230 MHz (banana), 3xL,PE | 244261 |
| CDN M432S | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 230 MHz (banana), 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA41, SAR M400, SAR M116, A 50-N | 244293 |
| CDN M432-10 | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz to 80 MHz (banana), 3xL,PE | 244297 |
| CDN M432-10S | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz to 80 MHz (banana), 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA41, SAR M400, SAR M116, A 50-N | 247785 |
| CDN M432-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL,PE | 256752 |
| CDN M432-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA41, SAR M400, SAR M116, A 50-N | 256753 |
| CDN M432-760V-10 | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL,PE | 257856 |
| CDN M432-760V-10S | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA41, SAR M400, SAR M116, A 50-N | 257857 |
| CDN M432-3LN | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 230 MHz (banana), 3xL,N (without PE line) | 244263 |
| CDN M432-3LNS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 230 MHz (banana), 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N | 244295 |
| CDN M432-3LN-10 | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz to 80 MHz (banana), 3xL,N (without PE line) | 247783 |
| CDN M432-3LN-10S | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz to 80 MHz (banana), 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N | 247786 |
| CDN M432-3LN-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL,N (without PE line) | 256754 |
| CDN M432-3LN-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N | 256755 |
| CDN M432-3LN-760V-10 | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL,N (without PE line) | 257858 |
| CDN M432-3LN-760V-10S | Coupling Decoupling Network for IEC 61000-4-6, type M4, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100B, 2x SAR MA41, SAR M116, A 50-N | 257859 |
| CDN M4-100 | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 3xL,PE | 257156 |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options (continued)

| Product | Description | Order code |
|----------------------|--|------------|
| CDN M4-100S | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100M, SAR MA41M, SAR M400M, SAR M116, A 50-N | 257157 |
| CDN M4-100-3LN | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 3xL,N (without PE line) | 257158 |
| CDN M4-100-3LNS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (banana), 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100M, 2x SAR MA41M, SAR M116, A 50-N | 257159 |
| CDN M4-100-750V | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL,PE | 257168 |
| CDN M4-100-750VS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL,PE with calibration adapter set in storage case, includes 2x CAL U100M, SAR MA41M, SAR M400M, SAR M116, A 50-N | 257169 |
| CDN M4-100-3LN-750V | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL,N (without PE line) | 257170 |
| CDN M4-100-3LN-750VS | Coupling Decoupling Network for IEC 61000-4-6, type M4, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL,N (without PE line) with calibration adapter set in storage case, includes 2x CAL U100M, 2x SAR MA41M, SAR M116, A 50-N | 257171 |
| CDN M516A | Coupling Decoupling Network for IEC 61000-4-6, type M5, 16 A, 230 MHz (banana), 3xL,N,PE | 234901 |
| CDN M516AS | Coupling Decoupling Network for IEC 61000-4-6, type M5, 16 A, 230 MHz (banana), 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA51, SAR M500, SAR M116, A 50-N | 244119 |
| CDN M532 | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 230 MHz (banana), 3xL,N,PE | 244262 |
| CDN M532S | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 230 MHz (banana), 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA51, SAR M500, SAR M116, A 50-N | 244294 |
| CDN M532-10 | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 10 kHz to 80 MHz (banana), 3xL,N,PE | 244296 |
| CDN M532-10S | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 10 kHz to 80 MHz (banana), 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA51, SAR M500, SAR M116, A 50-N | 247784 |
| CDN M532-1000V | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL,N,PE | 256756 |
| CDN M532-1000VS | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 150 kHz-80 MHz (banana), 1000 VAC, 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA51, SAR M500, SAR M116, A 50-N | 256757 |
| CDN M532-760V-10 | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL,N,PE | 257860 |
| CDN M532-760V-10S | Coupling Decoupling Network for IEC 61000-4-6, type M5, 32 A, 10 kHz-80 MHz (banana), 760 VAC, 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100B, SAR MA51, SAR M500, SAR M116, A 50-N | 257861 |
| CDN M5-100 | Coupling Decoupling Network for IEC 61000-4-6, type M5, 100 A, 150 kHz-80 MHz (terminal block), 3xL,N,PE | 257160 |
| CDN M5-100S | Coupling Decoupling Network for IEC 61000-4-6, type M5, 100 A, 150 kHz-80 MHz (terminal block), 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100M, SAR MA51M, SAR M500M, SAR M116, A 50-N | 257161 |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options (continued)

| Product | Description | Order code |
|------------------|---|------------|
| CDN M5-100-750V | Coupling Decoupling Network for IEC 61000-4-6, type M5, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL,N,PE | 257172 |
| CDN M5-100-750VS | Coupling Decoupling Network for IEC 61000-4-6, type M5, 100 A, 150 kHz-80 MHz (terminal block), 750 VAC, 1000 VDC, 3xL,N,PE with calibration adapter set in storage case, includes 2x CAL U100M, SAR MA51M, SAR M500M, SAR M116, A 50-N | 257173 |
| CDN-TC | Traceable calibration (ISO17025) for IEC 61000-4-6 requirements, order only with device CDN M, AF or S type | 97-231024 |
| CDN CISPR15-TC | Traceable calibration (ISO17025) for CISPR15 (300 MHz) and IEC 61000-4-6, order only with device CDN M or AF type | 97-237504 |
| CAL U100B | Universal calibration unit (150 Ω / 50 Ω adapter) | 247825 |
| CAL U100M | Universal calibration unit (150 Ω / 50 Ω adapter) for CDN M with 100 A | 257138 |
| IMA U100 | Universal impedance measuring adapter (0 Ω) | 239902 |
| IMA U100M | Universal impedance measuring adapter (0 Ω) for CDN M with 100 A | 257137 |
| SAR M116 | Adapter 4 mm banana | 239915 |
| SAR M210 | Common mode adapter for CDN M210B (EUT) | 247826 |
| SAR M300 | Common mode adapter for CDN M016 and M316, 4 mm banana (AE) | 242451 |
| SAR M300M | Common mode adapter for CDN M3-100 with PE line, terminal block (AE) | 257148 |
| SAR M400 | Common mode adapter for CDN M4 with PE line, 4 mm banana (AE) | 247832 |
| SAR M400M | Common mode adapter for CDN M4-100 with PE line, terminal block (AE) | 257147 |
| SAR M500 | Common mode adapter for CDN M5 with PE line, 4 mm banana (AE) | 247833 |
| SAR M500M | Common mode adapter for CDN M5-100 with PE line, terminal block (AE) | 257146 |
| SAR MA21 | Common mode adapter for CDN A2, M2, 4 mm banana | 247827 |
| SAR MA21M | Common mode adapter for CDN M2-100, terminal block | 257142 |
| SAR MA31 | Common mode adapter for CDN A3, M3, 4 mm banana | 247828 |
| SAR MA31M | Common mode adapter for CDN M3-100, terminal block | 257141 |
| SAR MA41 | Common mode adapter for CDN A4, M4, 4 mm banana | 247831 |
| SAR MA41M | Common mode adapter for CDN M4-100, terminal block | 257140 |
| SAR MA51 | Common mode adapter for CDN A5, M5, 4 mm banana | 243873 |
| SAR MA51M | Common mode adapter for CDN M5-100, terminal block | 257139 |
| TRA M21B | Termination unit for CDN M210B and CDN M310B | 242457 |
| TRA M36B | Termination unit for M316B only (without adapter) | 242460 |

CDN M SERIES

COUPLING / DECOUPLING NETWORK (CDN)

CDN M TYPE

Model No. and options (continued)

| Product | Description | Order code |
|-----------|---|------------|
| A 50-BNC | Termination 50 Ohms, BNC type, male | AX-006042 |
| A 50-N | Termination 50 Ohms, N type, male, 1 Watt, 2.5 GHz | AX-000452 |
| CDN case1 | Storage case for CDN (size 1) for e.g. CDN M316 and similar | 257100 |
| CDN case2 | Storage case for CDN (size 2) for CDN T | 257101 |
| CDN case3 | Storage case for CDN (size 3) for CDN HDMI, CDN S752A | 257102 |
| CDN case4 | Storage case for CDN (size 4) for CDN M with 32 A | 257103 |
| CDN case5 | Storage case for CDN (size 5) for CDN M with 100 A | 257104 |

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