



# 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

## **CDN M SERIES**

### **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**

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

## **CDN M TYPE**

**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 / 17 	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

# CDN M SERIES

## COUPLING / DECOUPLING NETWORK (CDN)

### 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 $\Omega$ $\pm$ 20 $\Omega$
26 MHz to 80 MHz:	150 $\Omega$ +60 $\Omega$ / -45 $\Omega$
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)	
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 <sup>1)</sup>
Test voltage:	3 kVDC, 2 sec
Common mode impedance (EUT port)	
10 kHz to 26 MHz:	150 $\Omega$ $\pm$ 20 $\Omega$
26 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
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

<sup>1)</sup> 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 $\Omega$ $\pm$ 20 $\Omega$
26 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
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 $\Omega$ $\pm$ 20 $\Omega$
26 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 +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 $\Omega$ $\pm$ 20 $\Omega$
26 MHz to 230 MHz:	150 $\Omega$ +60 $\Omega$ / -45 $\Omega$
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
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

# CDN M SERIES

## 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) <sup>1)</sup>
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 <sup>2)</sup> (CDN M210B, CDN M310B: 10A)
Test voltage:	3 kVDC, 2 sec
Common mode impedance (EUT port)	
150 kHz to 26 MHz:	150 $\Omega$ $\pm$ 20 $\Omega$
26 MHz to 230 MHz:	150 $\Omega$ +60 $\Omega$ / -45 $\Omega$
(230 MHz to 300 MHz): <sup>1)</sup>	150 $\Omega$ +60 $\Omega$ / -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:	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:	>30 dB
1.5 MHz:	>60 dB
30 MHz:	>40 dB
230 MHz:	>20 dB

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

<sup>2)</sup> 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 <sup>1)</sup>
Test voltage:	3 kVDC, 1 min
Common mode impedance (EUT port)	
150 kHz to 26 MHz:	150 $\Omega$ $\pm$ 20 $\Omega$
26 MHz to 230 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)	
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

<sup>1)</sup> 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 $\Omega$ $\pm$ 20 $\Omega$
26 MHz to 230 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 $\Omega$

# **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 $\Omega$ $\pm$ 20 $\Omega$
26 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)	
150 kHz to 80 MHz:	10 dB $\pm$ 2 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:	>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 <sup>1)</sup>
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

<sup>1)</sup> 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 $\Omega$ $\pm$ 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)	
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 $\Omega$ $\pm$ 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)	
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

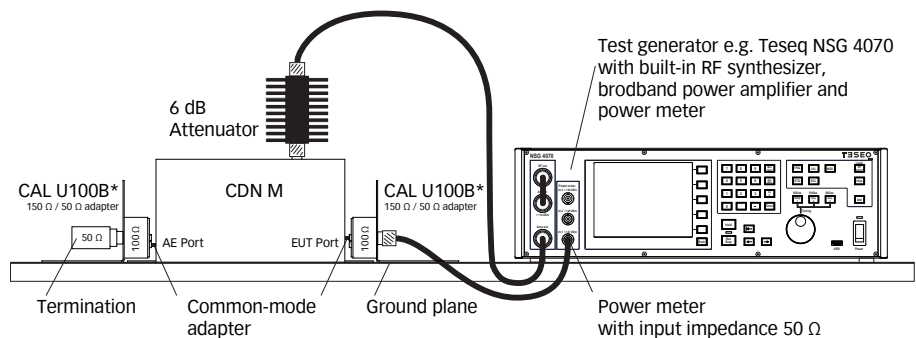
## Mechanical specification for types with 100 A

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

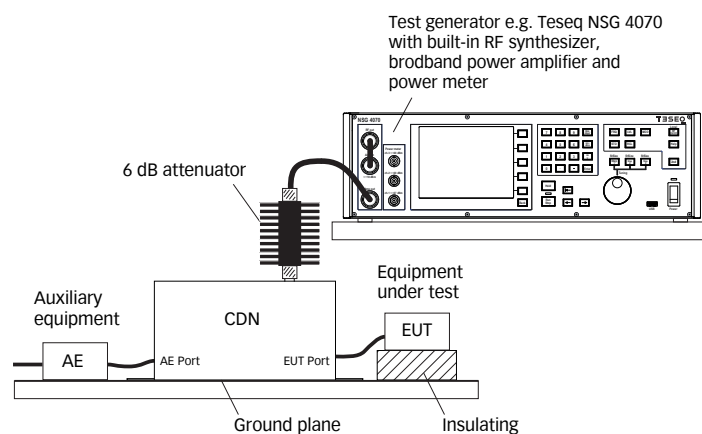
Classification:	Indoor use only
Operating temperature:	+5°C to +40°C
Relative humidity:	up to 80%

## Example of test set-up calibration



\*) CAL U100M for 100 Amps CDNs with terminal block

## Example of EUT test set-up



**T E S E Q**

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-DAkKS	DAkKS accredited calibration (ISO17025) for impedance and VDF in the frequency range of the CDN, order only with the device	98-231024
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 $\Omega$ / 50 $\Omega$ adapter)	247825
CAL U100M	Universal calibration unit (150 $\Omega$ / 50 $\Omega$ adapter) for CDN M with 100 A	257138
IMA U100	Universal impedance measuring adapter (0 $\Omega$ )	239902
IMA U100M	Universal impedance measuring adapter (0 $\Omega$ ) 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

# **CDN M SERIES**

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

### **CDN M TYPE**

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

Product	Description	Order code
TRA M21B	Termination unit for CDN M210B and CDN M310B	242457
TRA M36B	Termination unit for M316B only (without adapter)	242460
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
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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