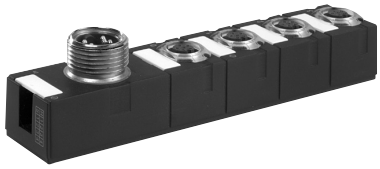
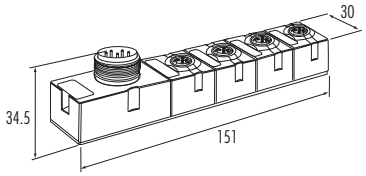
Power distributor | **Cube67 PD 7/8″**

Protection IP67



Ordering data		**Art.-No.**
	approvals	
	filed for UL	**56955**
Voltage input		
Nominal voltage	24 V DC (18…30.2 V), to EN61131-2	
Connection technology	7/8″ male, 5-pole	
Current load	max. 9 A	
Voltage output		
Number	4	
Connection technology	M12 female, 6-pole	
Current load	max. 4 A	
Short-circuit protection	electronic	
Diagnostic		
Supply voltage	green LED at M12 plug	
Short-circuit at output	red LED at M12 plug	
General data		
Temperature range	0…+ 55 °C (storage temperature - 20…+ 75 °C)	
Mounting method	2-hole screw mounting	
Dimension H x W x D	34.5 x 151 x 30 mm	
Dimension drawing		



Notes	
	Accessories, terminators and blind plugs see page 2.1.24. Connection cables can be found in chapter 1.4… All housings are potted.

Internal system connection Protection IP65	Cube67 FSC Pin M12	Cube67 FSC Socket M12 Mount	Cube67 FSC Socket M12
			
Ordering data	**Art.-No.**	**Art.-No.**	**Art.-No.**
	56947	**56948**	**56949**
Technical data			
Nominal voltage	24 V DC		
Nominal current	4 A		
Connection	female 6-pole M12, Han-Brid® 6-pole		
Insertion cycles	≥ 500		
General data			
Temperature range	- 40…+85 °C		
Mounting	–	flange, hole spacing 30 mm, drill-scale 3.3 mm	–
Dimension H x W x D	74 x 33.5 x 28.5 mm	80.5 x 40 x 40 mm	80.5 x 34 x 32 mm
Weight	114 g	140 g	122 g
Housing	zinc pressure diecasting		
Notes			

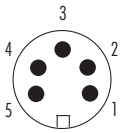
Blind plugs			Art.-No.
	**Blind plug M12 x 1 Cube67 BP**	set 4 pieces	**56952**
	Blind plug M8 x 1	set 4 pieces	**3858627**
	**Diagnostic blind plug M12 x 1**	set 1 piece	**7000-13481-0000000**
	Blind cap M12 Cube67 BP for internal system connection	set 4 pieces	**56951**

Other			Art.-No.
	Label plates	set 20 pieces	**55318**

Notes

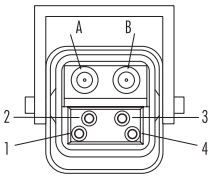
Further system accessories and configuration datas on request.
Up-to-date manuals can be downloaded under www.murrelektronik.com

Contact layout for bus nodes Cube67 BN-P

POWER Male 7/8"	BUS IN Male M12	BUS OUT Female M12
		
PIN 1: GND	PIN 1: 5 V	
PIN 2: GND	PIN 2: A-wire (green)	
PIN 3: PE	PIN 3: 0 V	
PIN 4: sensor supply	PIN 4: B-wire (red)	
PIN 5: actuator supply	PIN 5: shield	
Top view of module	Connection: Shielded	

Contact layout for bus nodes Cube67 BN-P ECOFAST®

Male/Female

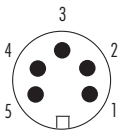


Data A: CU
Data B: CU
PIN 1: 24 V equal channels supply not switched (U_{ns})
PIN 2: GND
PIN 3: GND
PIN 4: 24 V unequal channels supply switched (U_s)

Top view of module. ECOFAST® is a registered trademark of Siemens

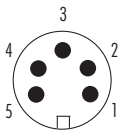
Contact layout for bus nodes Cube67 BN-DN

DeviceNet

POWER Male 7/8"	BUS IN Male M12	BUS OUT Female M12
		
PIN 1: GND	PIN 1: shield	
PIN 2: GND	PIN 2: V+	
PIN 3: PE	PIN 3: V–	
PIN 4: sensor supply	PIN 4: CAN_H	
PIN 5: actuator supply	PIN 5: CAN_L	
Top view of module	Connection: Shielded	

Contact layout for bus nodes Cube67 BN-C

CANopen

POWER Male 7/8"	BUS IN Male M12	BUS OUT Female M12
		
PIN 1: GND	PIN 1: shield	
PIN 2: GND	PIN 2: N.C.	
PIN 3: PE	PIN 3: GND	
PIN 4: sensor supply	PIN 4: CAN_H	
PIN 5: actuator supply	PIN 5: CAN_L	

Top view of module

Contact layout for Cube67 digital I/O modules

digital inputs

Female M12

1: sensor supply +
2: input 2/diagnostic
3: 0 V
4: input 1
5: PE

digital inputs

Female M8

1: sensor supply +
3: 0 V
4: input

multifunctional plug

Female M12

1: sensor supply +
2: input 2/output 2/diagnostic
3: 0 V
4: input 1/output 1
5: PE

multifunctional plug

Female M8

1: sensor supply +
3: 0 V
4: input/output

Contact layout for Cube67 analog modules

Plug for PT100/resistance measuring

Female M12

1: current sorce
2: input
3: 0 V
4: input
5: N.C.

Plug for thermo elements

Female M12

1: compensation +
2: thermo element +
3: compensation –
4: thermo element –
5: N.C.

Plug for analog input

Female M12

1: supply voltage +
2: analog +
3: 0 V
4: analog –
5: N.C.

Plug for analog output

Female M12

1: + 24 V/1.6 A
2: N.C.
3: 0 V
4: output
5: N.C.

Contact layout for Cube67 function modules

Plug for counter input

Female M12

1: + 24 V
2: up/down 1
3: GND
4: counter Input
5: N.C.

Plug for counter output

Female M12

1: + 24 V
2: gate 1
3: GND
4: digital OUT 1
5: N.C.

Plug for logic input

Female M12

1: + 24 V
2: input 1
3: 0 V
4: input 2
5: PE

Plug for logic output

Female M12

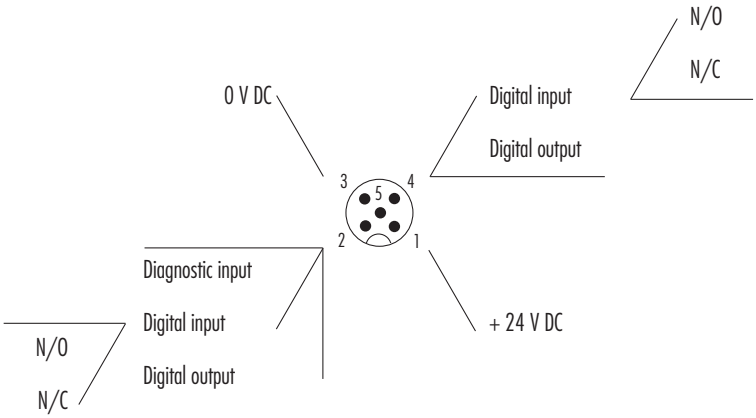
1: + 24 V
2: output 1
3: 0 V
4: output 2
5: PE

RS485

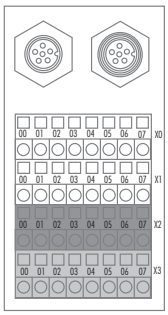
Female M12

1: + 24 V
2: RS –
3: 0 V
4: RS +
5: PE

Possible parameterizations multi functional I/Os



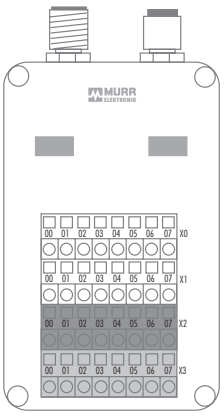
Terminal plan... for Cube67 TB rail



Terminal layout

X0: DI 00...07
X1: DI/DO 00...07
X2: + 24 V DC
X3: 0 V

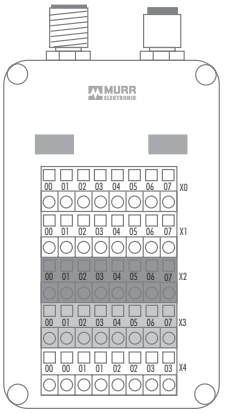
... for Cube67 TB box



Terminal layout

X0: DI 00...07
X1: DI/DO 00...07
X2: + 24 V DC
X3: 0 V

... for Cube67 TB box PK

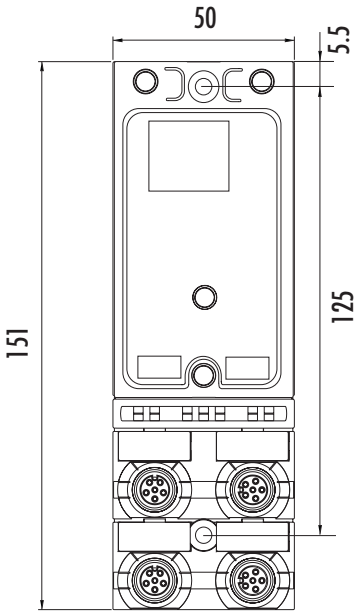


Terminal layout

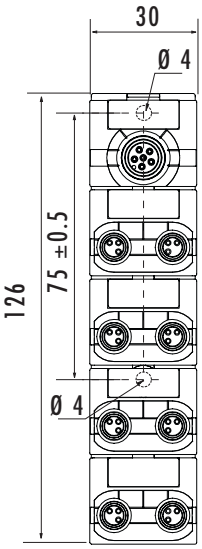
X0: DI 00...07
X1: DI/DO 00...07
X2: + 24 V DC
X3: 0 V
X4: 00 00 01 01 02 02 03 03

Drill plans for Cube67 modules

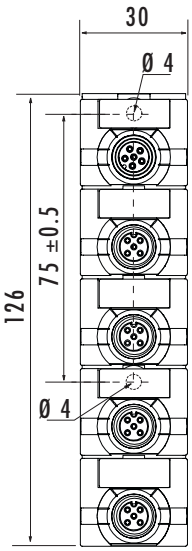
Cube67 bus nodes



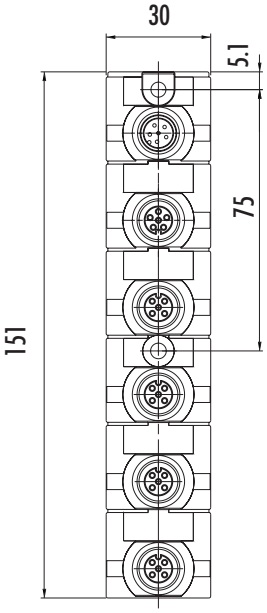
Cube67 M8 modules



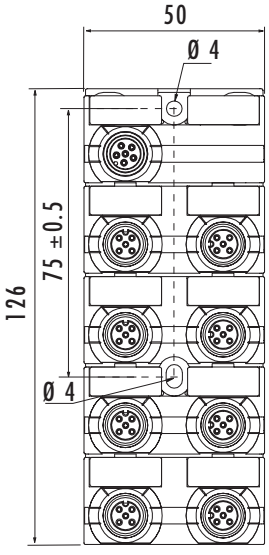
Cube67 M12 modules, 4-way



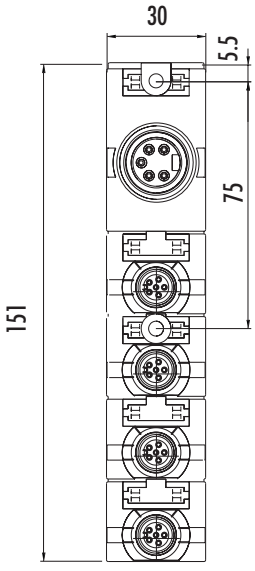
Cube67 M12 expansion module
Cube67 M8 expansion module



Cube67 M12 modules, 8-way



Cube67 power distributor



Cube67 TB box