



Surge Protection for Outdoor Use (IP66 und IK08)



Surge Protection for CCTV Data Cable for CAT6A/PoE++ High-Speed Networks

With the NetDefender, OBO presents data cable protection devices for CAT6A high-speed networks, which are suitable for outdoor use (IP66). The NetDefender combines basic protection (D1) as well as medium protection (C2) and fine protection (C1) and are tested in accordance with IEC 61643-21.

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Building Connections

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Benefits of the OBO NetDefender

The extremely robust aluminum housing of the NetDefender has an additional shielding effect. They are available on the input side as a variant with RJ45 STP or LSA+ connection option and RJ45 STP on the output side. The NetDefenders support Power over Ethernet ++ (PoE++ / 4PPoE) up to 1 A

in accordance with IEEE 802.3 and have a tested transmission quality in networks up to 10 GBit/s (class EA) or CAT6A.

As an option: Fastening set for rods 5081820.

Typical Areas of Application for the NetDefender:

- Protection of for example IP CCTV Camera Systems with PoE Application
- Protection for the Data Side of the PV inverter
- Industrial Applications

		
Parameter	ND-IP66-RJ-RJ	ND-IP66-RJ-LSA
Art.-Nr.	5081807	5081808
IEC EN 62305-4:2011	LPZ 0 -> 3	LPZ 0 -> 3
IEEE 802.3bt	4P PoE	4P PoE
ISO/IEC 11801:2010	Klasse EA / 10 GBit/s	Klasse EA / 10 GBit/s
ANSI/TIA/EIA 568	CAT6A	CAT6A
Frequency range	0 - 500 MHz	0 - 500 MHz
Rated current IL	1 A	1 A
Nominal voltage Un Wire - Wire	5 V DC	5 V DC
Nominal voltage Un - PoE	48 V DC	48 V DC
Max. continuous operating voltage Uc - wire - wire	6 V DC	6 V DC
Maximum continuous operating voltage Uc - PoE	58 V DC	58 V DC
Nominal surge current In wire - wire (8/20)	C1: 500 V / 250 A (300x)	C1: 500 V / 250 A (300x)
Nominal surge current In - PoE (8/20)	C1: 1 kV / 500 A (300x)	C1: 1 kV / 500 A (300x)
Nominal surge current In - wire - earth (8/20)	C2: 3 kV / 1,5 kA (10x)	C2: 5 kV / 2,5 kA (10x)
Protection Level Up - wire - wire	< 60 V @ 500 V / 250 A	< 60 V @ 500 V / 250 A
Protection level Up - PoE	< 145 V @ 1 kV / 500 A	< 145 V @ 1 kV / 500 A
Protection level Up - wire -earth	< 600 V	< 700 V
Overall surge current Itotal- wire - earth	10 kA (10x) (8/20)	10 kA (10x) (8/20)
Overall surge current limpTotal - wire - earth	D1: 2,5 kA (2x) (10/350)	D1: 2,5 kA (2x) (10/350)
Protected	RJ45	RJ45
Unprotected	RJ45	LSA
Earthing	M5	M5
External cable diameter	5 - 8 mm	5 - 8 mm
Wire diameter	22-26 AWG (0,4 - 0,65 mm)	22-26 AWG (0,4 - 0,65 mm)
Protection rating	IP66 / IK08	IP66 / IK08
Temperature range	-20 °C to +65 °C	-20 °C to +65 °C

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