

Low frequency



- shielded socket strip for shielding low-frequency electrical fields and reducing alternating magnetic fields
- two-pole disconnection of the four socket inserts
- incl. child safety lock and decoupling filter

■ The shielded socket strip STL9 is a very high-quality processed socket strip for the reduction of low-frequency electrical alternating fields and energy consumption.

■ The shielded socket strip STL9 is preferably used for 2-pole disconnection and for operating several devices. This means that even if the plug is turned 180° in the socket, the voltage is always switched off.

■ A special advantage when using the STL9 socket strip is the 2-pole disconnection. This guarantees smooth operation of all automatic field disconnectors, such as the devices of the NA-16 series.

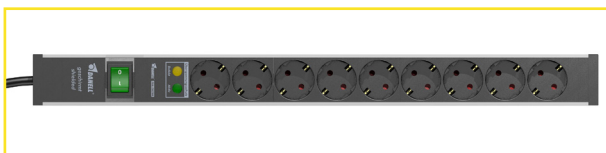
■ The 2-pole switch and child protection add safety aspects to the shielding effect.

■ Use of socket strips with 2-pole switch:

By using switchable power strips, several devices can be connected together (PC, hi-fi systems, etc.) and disconnected from the mains conveniently and together at the flick of a switch. If there is a need for continuous power for devices with programmed data or necessary accessibility (e.g. fax, telephone system, video recorder), you can use socket strips with combined switchable and non-switchable inserts like STL6PC. If your strip is additionally shielded, the alternating electric field is minimised to below 1-2 volts/metre (V/m) - the recommended guideline value of building biology is max. 10 V/m.

Order-No.: 300131 - 41-6788

Short-Desc.: STL9



Home installation

Power strip STL9

Technical data

power strip:	(shielded)
length x width x height:	572 x 52 x 45 mm
colour:	silver (anodised aluminium profile) / black
decoupling filter:	integrated - prevents coupling of alternating electric fields to two-pole Euro mains cables
inserts:	45 ° angled mounting, incl. child-proof lock
control switch:	all nine socket inserts 2-pole (L1 + N) can be switched off
switch colour:	green / lighted
mains connection cable:	shielded
cable length:	3 metre - (± 10 %)
cable cross-section:	3 x 1.5 mm ² + double wire Cu 1.0 mm ²
cable colour:	black
insulation cable: shield:	polyvinyl chloride plastic-coated aluminium strip, two-wire Cu 1.0 mm ²
operating voltage: (max.)	250 VAC / 50 Hz
load: (max.)	16 A acc. IEC 884
protection class:	1 (with ground wire)
testing:	single, to 100 %, TCO '99 (MPR II, DIN prEN 50279)

Scope of application

bedroom and children's room
office space / PC workstations
living rooms
guest rooms

Scope of delivery

shielded socket strip 9-fold - STL9

- **Note:** DIN VDE 0100 Part 420 Para. 4.1 (fire hazard in electrical installations) must be particularly observed during use. If the total resistance of the individual plug-in connections exceeds the impedance required for short-circuit protection, it will no longer trip (VDE 0100-410:2007-06, for example, requires short switch-off times of 0.4 s for the TN system). In such cases, the temperature of the pipe can rise to the point of creating a fire source.

Therefore, the following applies (to all socket strips, whether shielded or unshielded):

- do not insert one after the other
- do not operate covered

Data sheet overvoltage protection according to VDE 0675, part 6 section 4.12

Socket strip STL9 - PRO-TECTOR

Surge protection - PRO-TECTOR

max. permissible operating current I_{max} AC	16 A
leakage paths:	varistor and gas surge arrester
test standard:	VDE 0675 part 6
arrester Rated voltage U_R :	300 VAC
rated leakage current I_{SN} (8/20 μ s)	6500 (6,5 k) A
guaranteed protection level:	< 1000 V bei 6500 A (8/20 μ s)
response time t_a	< 25 ns
indicators:	green = protection all right red = protection defective

Disconnecting unit

The standard VDE 0675, part 6 prescribes a maximum current pulse of $i_{sn} = 1.5$ kA (8/20 μ s). The present unit has been designed for 6.5 kA and therefore offers 4x higher protection than prescribed.

VDE 0675 requires thermal control with disconnection of the varistors in the event of a fault to avoid a fire hazard.

This is done with 2 thermal fuses. When the overvoltage part is disconnected, the connected devices remain connected to the mains.

Intended use

The full-protection socket strip is designed for overvoltage category II according to DIN VDE 0110 part 1.

Overvoltage protection

acc. VDE 0675, part 6 section 4.12

The full protection electronic assembly serves as a mounting kit in the socket strip.

Requirement class

The full device protection is designed for requirement class D (portable use at sockets).

Function

When functioning correctly, a green lamp lights up. A failure of the surge protection device is clearly indicated by a red lamp lighting up.

In this case, the overvoltage part has been damaged by a very significant overvoltage and you should replace the unit.

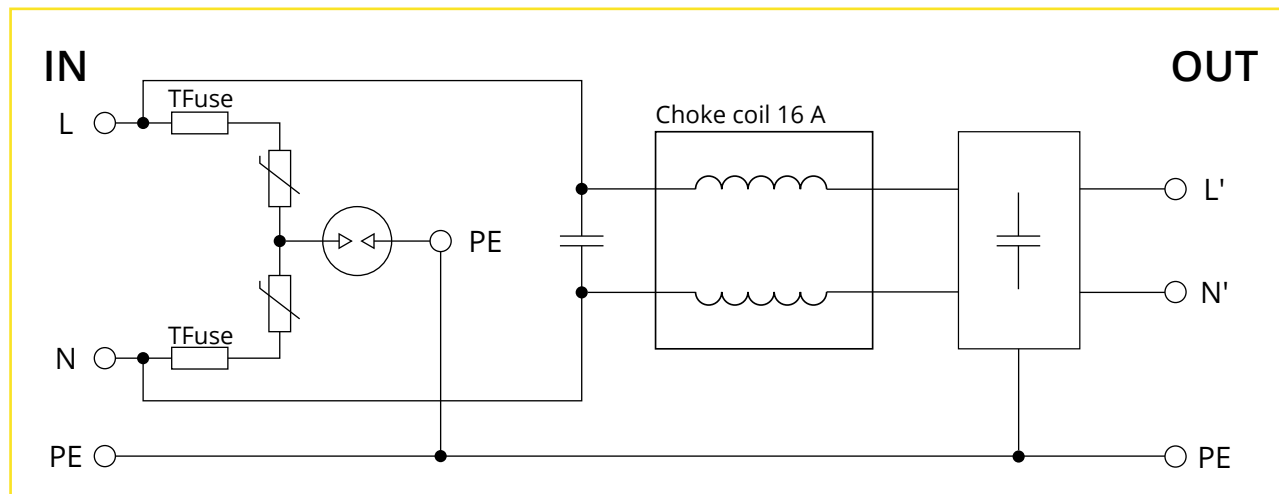
Prefuse

Due to the use of very high-quality components, it was possible to dispense with a back-up fuse. You have the power of the 16A house mains available without restriction.

Important: If you operate the power strip on an unprotected mains supply, a 16 A fuse must be installed in front of the unit.

Installation instructions

The full-protection socket strip must not be manipulated in any way. The wiring and connections made by the manufacturer must not be changed!



Block diagram

The circuit diagram shows the structure of the device full protection.