

Keeps fire away

Fire extinguishing composites



Polish Technology

Protection of photovoltaics

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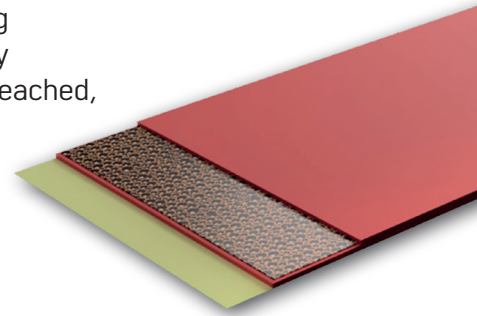
ASPP STICKER is a flexible polymer composite structure that contains fire-extinguishing agent filled capsules; the system comes with a self-adhesive layer.

ASPP STICKER protects small electrical appliances with a net volume ranging from 0.2 l to 65 l. Installation - the self-adhesive product is placed horizontally in the upper part of the protected facility. Once the activation temperature is reached, the product releases the extinguishing agent to eliminate the fire source.

ASPP STICKER APPLICATION

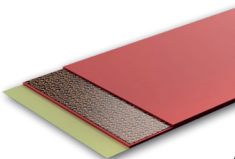
Low voltage systems, 50V - 1000V. Volume - 65 liters.

- **Electrical installations in buildings and structures**
Electrical cabinets, cable ducts, distribution boxes, power supply installations, etc
- **Electrical and household appliances**
Audio, video, tv, equipment etc.
Personal electronic equipment, computers, servers
Low voltage equipment connected to personal computers
Power supplies, chargers, voltage stabilisers
Lighting and light sources
- **Industrial electrical appliances**
Power distribution devices
Low voltage devices
Electrical switchboards and control cabinets
Industrial, commercial and service automation
ICT equipment
Railway control devices
Railway automation
Automation for technological processes control
Electric elements of machines and devices



Electrical switchboards, electric cabinets and boxes, power distribution panels, relay boxes, electric motor branch-joint, etc. Effective fire outbreaks elimination in facilities of 0,2 up to 65 litres volume. Recommended for more than IP20 protection class. The numbers which indicate the ASPP STICKER models are related to the net volume of protected facilities, expressed in liters.

Activation temperature: 120 °C
Functionality in ambient -40 to +65 °C temperature range
Functionality period: 5 years

Standard	Maximum applicable capacity	El. socket	7L	20L	30L	50L	65L	70L	80L	100L	200L	300L	500L	750L	1000L	Example of use
ASPP STICKER	15x35mm	■														
	100x25mm	■	■													
	100x40mm	■	■	■												
	100x100mm	■	■	■	■											
	150x100mm	■	■	■	■	■										
	200x100mm	■	■	■	■	■	■									

ASPP STICKER is manufactured in accordance with ISO

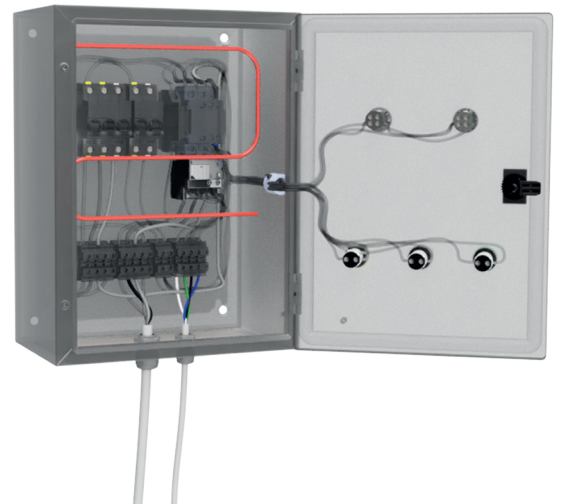
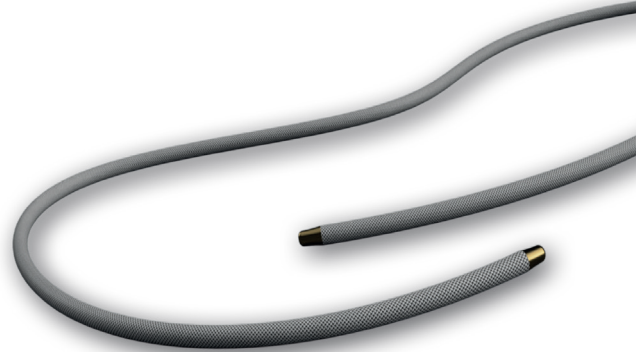
ASPP ROPE is a flexible composite-polymer structure that contains fire-extinguishing agent filled capsules and oxidiser for initialisation. A net volume of the protected facility determines the product sections sizes. The product is installed in the ignition and self-ignition danger zones

Application

- Low voltage devices
- Cable ducts
- Protected volume - from 65 to 1000 liters


ASPP Rope Application

- Low voltage systems, 50V - 1000V.
Net volume - from 65 to 1000 liters.
- **Electrical installations in buildings and structures**
Electrical cabinets, cable ducts, distribution boxes, power supply installations, etc.
Electrical appliances and energised equipment
Server rooms, computers, audio and video equipment
Power supplies, chargers, voltage stabilisers
Lighting and light sources
- **Industrial electrical appliances**
Power distribution devices
Low voltage devices
Electrical switchboards and control cabinets
Industrial, commercial and service automation
ICT equipment
Monitoring, control and signalling devices for industrial, communication, commercial and service infrastructure
Automation in means of transport
Automation for technological processes control
Electric elements of machines and devices
Engine and battery compartments



Activation temperature: 220°C
Ambient Function temperatures range -40 to +65 °C
Service life: 5 years

ASPP ROPE reacts whenever any product section is exposed to heat/fire. The product contains a thermally activated oxidant, which triggers a rapid release of the gaseous extinguishing agent along the whole **ASPP ROPE** length. The fire is put out at ignition and self-ignition source.

Standard	Maximum applicable capacity	EI socket	7L	20L	30L	50L	65L	70L	80L	100L	200L	300L	500L	750L	1000L	Example of use
ASPP ROPE	2,3 mb															
	3,3 mb															
	4,5 mb															
	6,3 mb															
	8,4 mb															
	10,5 mb															



CONNECTOR BOX

ELECTRICAL CONNECTORS AND COUPLING HOUSING WITH AN AUTONOMOUS FIRE PREVENTION SYSTEM

CONNECTOR BOX is a fire-protective housing for electrical connectors and couplings. All energised installations and devices exposed to electrical surges, overloads or similar disorders' impact whenever electric current flow is involved.

Hazards may originate in the installation, e.g. improper assembly, mechanical damage, contamination, etc. Risks may also be triggered by external factors such as lightning-triggered surges or other violent atmospheric phenomena, e.g. temperature and humidity fluctuations, etc. Photovoltaic panels with series and parallel connections based on MC4 connectors, etc. can be protected against this kind of problems.

CONNECTOR BOX PRO

The Housing of electrical connectors and nipples with an autonomous fire prevention system made of a material with fire-resistant properties.



CONNECTOR BOX

The housing of electrical connectors and nipples with an autonomous fire prevention system is made of a material with self-extinguishing features.

Patent application number: P.439059
Proprietary utility-model design
protection - application number: W.130293

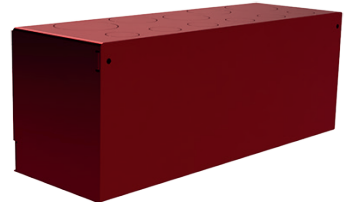


SHIELD

ASPP SHIELD is a protection for the MC4 group of conduit fitting. Most of the technical solutions for the cable entry into the junction boxes of PV modules are based on MC4 type connectors integrated with the cable glands. Increased contact resistance, e.g. due to improper connection, may lead to an overheat connection point and consequently to the risk of fire caused by an electric arc. Due to the lack of space the CONNECTOR BOX can't be applied.

The ASPP Shield prevention system is a fire resistant shield covering the entire group of MC4 conduit fittings, containing the ASPP fire-extinguishing agent . Installation does not require any changes in the junction box. The shield is prepared for quick installation and doesn't require any special tools. It is fastened through MC4 cable glands. The solution is autonomous.

A system for quick inspection of the inside of the housing was designed. Additionally, the ASPP SHIELD cover provides UV protection and protects against adverse weather conditions.



Patent application number: P.437602
Proprietary utility-model design
protection - application number W.130350