

Heatshield PPS Transit Sleeves

Factory Pre-assembled Transit for Data & Electrical Cables

Product Description

Heatshield PPS Transit Sleeves are 300mm long plastic sleeves with a heat reactive graphite based intumescent insert and are used to maintain fire resistance in compartment walls (including gypsum drywalls) and floors where network, data and electrical cables pass through from one compartment to another. When exposed to elevated heat in a fire, the intumescent liner insert activates and expands to completely close off the transit and restrict the passage of hot gases and fire to the non-fire exposed side of the wall or floor. **Heatshield PPS Transit Sleeves** are fire tested from 0% to 90% filled and allow for regular changes, removal and re-fitting of cables without damaging the integrity of the seal. Each PPS Transit is supplied with a 50mm deep flame retardant foam strip which is wrapped around cables to form a removeable and reusable end plug.

Heatshield PPS Transit Sleeves are currently available in sizes up to 110mm.

Applications

Heatshield PPS Transit Sleeves are independently tested and certified for a range of cables and configurations where they transit through concrete walls and floors and Gypsum Drywalls.

A. Concrete Floors

120 / 120 Mins fire resistance (Integrity & Insulation) when used to seal Cat5e network data cable bundles up to 90-mm diameter.

120 / 120 Mins fire resistance (Integrity & Insulation) when PPS Transit Sleeve is empty.

B. Concrete Walls

120 / 120 Mins fire resistance (Integrity & Insulation) when used to seal Electrical Cable bundle (10 x A3 type Cables).

C. Gypsum Drywall

120 / 120 Mins fire resistance (Integrity & Insulation) when used to seal Cat 5e network data cable bundles up to 60mm diameter.

90 / 60 Mins fire resistance (Integrity & Insulation) when used to seal Cat 5e network data cable bundles up to 90mm diameter.

Physical Properties

Composition	300mm long x 110mm diam PVC-u sleeve with 4mm thick x 50mm wide intumescent liner factory fitted
Colour	Grey
Intumescent Liner	4mm thick x 50mm wide FS50 Wrapstrip positioned centrally at mid point of Transit length
Average Expansion of Intumescent	Min 40 to 55 times (300°C, 20min free expansion) Min 40 to 48 times (500°C, 30min free expansion)
Activation Temperature	Approximately 180°C
Foam End Plugs	50mm wide flame retardant open cell polyurethane foam strip (20mm thick x 250mm long)
Application Temperature	+4°C - +40°C
Service Temperature Limitations	-5°C - +50°C Do not use in conditions of continuous immersion, below ground or in areas of high mechanical abrasion.
Storage	Store in 5 - 35°C
Shelf Life	N/A - Unlimited



Key Benefits

- Independently Tested & Certified
- Maintenance Free
- Allows for frequent cable changes
- Easy Installation
- Flexible & Durable
- Reuseable
- Economic Solution
- ISO 9001 Quality Assured

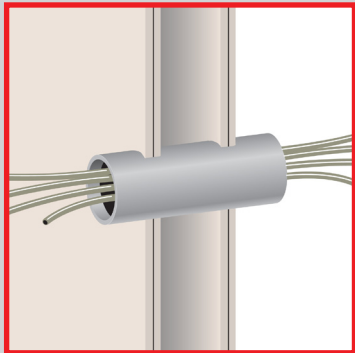
Fire Performance

Tested in accordance with: EN1363-1:2020, EN1363-2:1999, EN1366-3:2021		
Construction	Integrity	Insulation
Penetration Seals*	120 mins	120 mins
Concrete Floor	120 mins	120 mins
Concrete Wall	120 mins	120 mins
Gypsum Wall (Up to*)	120 mins	120 mins

*Depending on service type or installation configuration

Heatshield PPS

Surface Mounted Seal for Plastic Pipes



Intertek

ISO 14001 + 45001

CERTIFIED
ISO 9001



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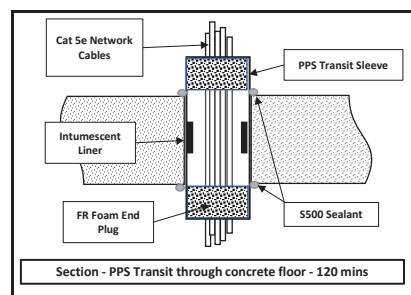
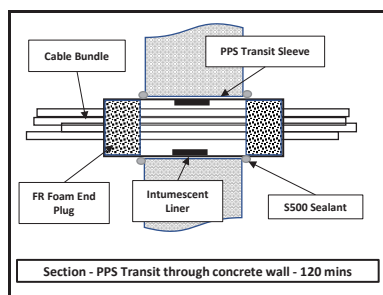
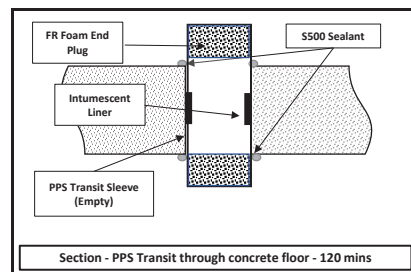
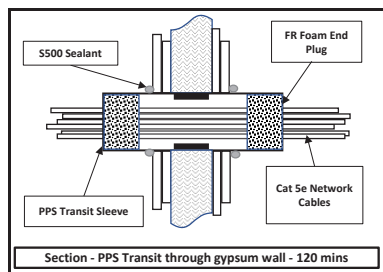
Installation Instructions

Heatshield PPS Transit Sleeves are supplied 'ready to fit' and are easily installed using readily available hand tools (tape measure, power drill, suitable hole cutter / saw, standard cartridge gun for sealant).

A. Cables & Cable Bundles in Walls and Floors

1. Accurately mark position of hole for the PPS to be fitted into. Using a suitable hole cutter and power drill for type of the substrate, cut a circular hole to suit diameter of PPS Transit Sleeve.
2. Remove all debris, dust and other contaminants from hole and around perimeter of aperture on substrate surface.
3. Push fit the PPS Transit Sleeve into the prepared hole and ensuring that the graphite liner is positioned centrally within thickness of wall or floor (ie so that the same length of transit is protruding on both sides)
4. If the hole / aperture is cut larger than the external diameter of the PPS Transit, then ensure that any annular space around the transit is filled with M1150 Mortar or concrete. If fitting in Gypsum Drywall, then ensure that any void is tightly packed and filled with mineral fibre (min 50kg density) before applying sealant (see 5 below).
5. Apply a bead of S500 Intumescent sealant around circumference of the PPS Transit Sleeve, at interface with wall or floor surface.
6. Carefully pass all cables through the PPS Transit Sleeve.
7. After all cables are installed and secured, wrap the supplied foam strip tightly around cable and push fit into Transit (ie into annular space between transit sleeve and cables) so that it forms a plug and is flush with end of transit. Repeat this on both sides of wall or floor.

Typical Installation Details



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UAE OFFICE:

Triton Middle East LLC
New Sanaya Industrial Area
Umm Al Quwain
United Arab Emirates

Tel: +971 6 7672327

Email: info@greentech-heatshield.com

UK OFFICE:

Greentech Heatshield UK Ltd
Lochnagar House
Drumlithie
Stonehaven
AB39 3YS

Tel: +44 (0)1569 769144

Email: info@greentech-heatshield.co.uk