

## TEST RESULTS

The range of Abesco Marine Cable Transits have been independently tested and witnessed at an accredited fire test laboratory over a series of 12 months and 10 different applications.

All tests were run in accordance with IMO A.754 (18) and the criteria set out within the safety regulations of SOLAS.

The UKAS accredited fire test laboratory was Bodycote WarringtonFire 0249

Notified Body No. 0833

All tests were independently witnessed by Lloyds Register

## CERTIFICATION AND ACCREDITATION

- DNV Type Approval
- Lloyds Register Type Approval
- MED – B & D Certification
- Manufactured to ISO 9001: 2000
- Abesco Intumescent G Type has been tested and proven to be unaffected by moisture or when overcoated with a wide selection of marine protective coatings

## WHERE DO I USE ABESCO MARINE CABLE TRANSIT

The range of Abesco Marine Cable Transits can be installed through any "A" or "B" rated Bulkhead or Deck, where cables are to be installed and pass through these fire rated compartment partitions.

They act as a method of maintaining the fire resistance and integrity of the separating element to the desired "A" or "B" rating.

It is currently not possible to use this product where a water tight seal is required, however, a water tight variation is currently being developed and tested. Please contact Abesco for the current status!

## WHAT HAPPENS IN A FIRE SITUATION

In the event of a fire, the internal Abesco G type Intumescent is exposed to hot gasses and heat, which in turn expands to close off any peripheral gaps around any cables which pass through the device!

As the protective pvc sheathing erodes and burns away, the 2nd stage of the Intumescent then expands further to fill this gap left by the cable sheathing.

The integral foam plugs further act as a cold smoke seal, which in itself is Class "O" rated which means it does not support a surface flame and is self extinguishing.

The Abesco Marine Cable Transit then holds and maintains the integrity and insulation of that given penetration seal for the duration of either A0 A15 A30 or A60 as required in either a Bulkhead or Deck orientation.

## HOW TO SPECIFY ABESCO MARINE CABLE TRANSIT

During the design stage of construction of a vessel, it is permitted to design and run a certain number of cables on a cable track or tray.

Where this cable track or tray terminates at a Bulkhead or Deck, a simple calculation is made to determine the percentage volume of cables that are required to pass through any given Bulkhead or Deck separating element.

Based on this value, the desired size of Abesco Marine Cable Transit can be selected in either a single unit (1Plex), triple unit (3Plex) or a double x triple unit (6Plex).

The format of these come in two size ranges: 65mm (2 1/2") and 100mm (4")

## OTHER PRODUCTS

Abesco also manufacture the SSA60 range of Marine Fire Collars to suit plastic pipes. For further information on the full range of products available, please check our website:

[www.abesco.net](http://www.abesco.net)

## ONGOING RESEARCH AND DEVELOPMENT

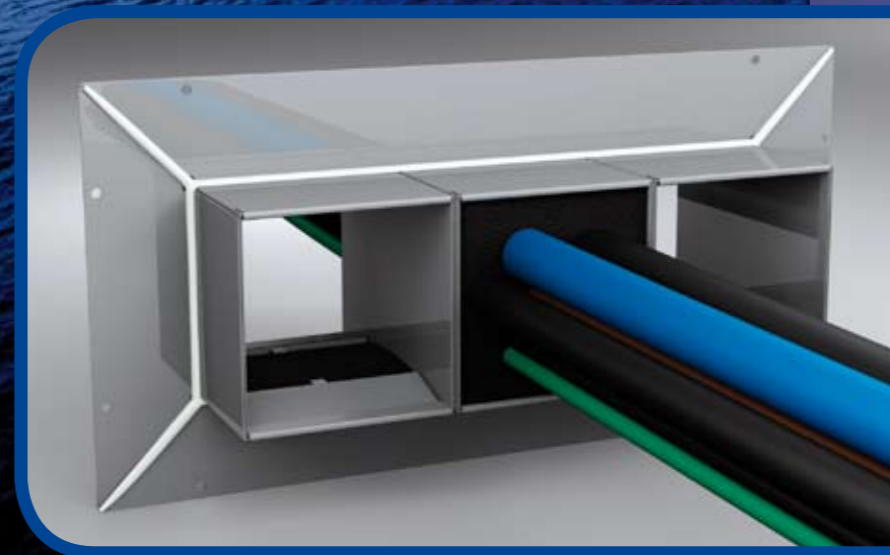
Abesco Limited has its own Research and Development Fire Test Furnace which permits us to develop and test prototype designs. This allows us to keep ahead of our competitors and offer constant improvement to customers by optimising performance and reducing costs through better design.



# Marine Cable Transit System



- Cost effective
- Easy to use
- Build efficient
- Low unit weight
- Quick to install
- Durable and galvanised



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h i g h p e r f o r m a n c e f i r e s t o p p r o d u c t s

## Fire at Sea

One of the main fears that confront personnel at sea, is not the fear of drowning, but the fear and risk of fire. If fire is not contained, by use of effective fire stopping products or compartmentation, then fire on board a vessel will spread very quickly as it seeks fresh sources of ignition and oxygen to feed it! Like fires anywhere else, a fire will go through the smallest of apertures in search of fuel or oxygen to further feed it's need to ignite and burn whatever is in its path. Abesco has developed a range of passive fire protection products to prevent fires from spreading and also builds an effective smoke inhibitor system into its device.



## Accreditation

Abesco limited has gained Type Approval under IMO Res. A. 754(18).

These include DNV Type Approval, Lloyds Type Approval, MED B & D Approval. Abesco Limited operates an accredited Quality Assurance System to ISO 9001: 2000.



## Why Abesco Marine Cable Transit System?

The Abesco Marine Cable Transit System has been developed with "Design Improvement" over the existing fire stopping solutions which have been available.

At present, there are two standard sizes within the range. 65mm (2 1/2") & 100mm (4").

The system allows the joining of these units in the following formats:

1Plex, (single unit) 3Plex (triple unit) & 6Plex (double row x triple unit)

Additional sizes are currently being developed and added to the range on an ongoing basis. Please call Abesco (+44 (0) 1561 377766 for updates.

There are a selection of passive fire protection products suitable for use within the marine environment.

These are traditionally very complex, heavy and expensive systems to both install and maintain!

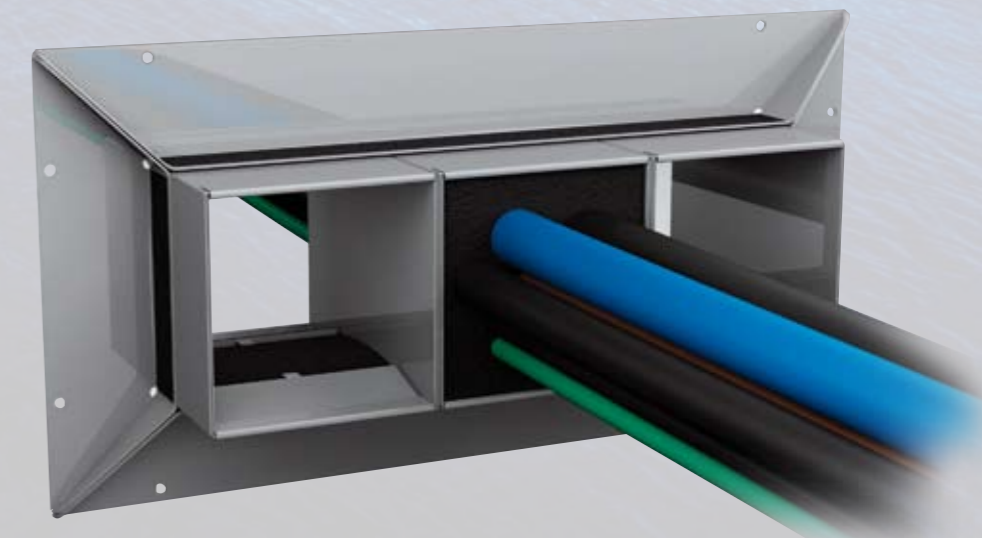
**The Abesco Marine Cable Transit System has several advantages over our competitors:**

- It can allow separation of cable types within a small area, (power / data / telephone) through what we call a 3Plex unit.
- It is manufactured in 2 size ranges at present (65mm (2 1/2") and 100mm (4")).
- Units are only 150mm (6") in length, and therefore provide a better cable access entry and exit on radius from and to cable trays.
- On A60 Bulkheads and Decks, the end of the Abesco Marine Cable Transit does not protrude beyond the surface of the insulation!
- Tested and has achieved improved performance over and above the IMO Res. A. 754(18) standard. An increased volume cable capacity of upto 57% (in limited applications).

## Testing & Certification

All certification attained, had been as a result of Abesco conducting fire tests to IMO Res A 754(18) at an independent accredited fire test laboratory and independently witnessed by Lloyds.

Abesco are committed to developing new and innovative ideas and concepts that extend beyond the boundaries and limits of the current standards, whereby we can offer commercial advantages and improved fire performance through technological improvements.



## Cost Advantages

- Quick & easy to install "weld or screw fix" (labour saving)
- No additional sleeve or coming required. (labour / material cost & weight saving)
- Lightweight design yet robust performance. (weight saving)

**There are many cost advantages to the Abesco MCT Range:**

- Allows for rapid installation of cables. Dry install, which saves time. (labour saving)
- Allows for easy removal and re-routing as and when required without the concern of fire seal compromise. (labour saving)
- It has been tested and achieved improved performance over and above the 40% maximum volume fill stated in IMO Res. A. 754(18) standard where it has an increased volume cable capacity of upto 57%. (in limited applications) (fewer seals required to therefore reduce costs)