

Direct entry sealed termination unit for use with the Heat Trace range of heating cables

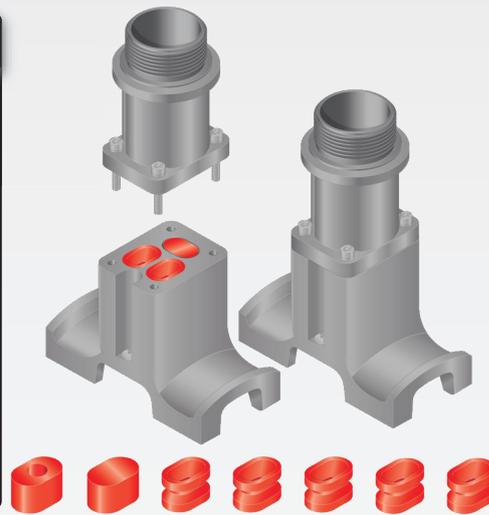
- Suitable for use in safe and hazardous areas.
- Eliminates the risk of damage to heating cables at termination points.
- IP66 rated.
- May be used for in-line and tee-splicing.

FEATURES

The DES-3 is a direct entry sealed termination unit for use with the majority of the Heat Trace range of self-regulating, and constant wattage heating cables.

Made from Glass Reinforced PPS, it has been designed specifically to reduce the risk of damage to heating cables at termination points. Thus avoiding the need to expose the heating cable as it emerges from the thermal insulation for connection into the junction box.

The DES-3 may be used for in-line splice and tee splice terminations.



OTHER EQUIPMENT NEEDED

JUNCTION BOX

The suggested junction box for use with the DES-3 system is the JB9000XL. This style of junction box provides ample room inside for connecting the heating cables and earth wiring. The JB9000XL comes complete with the necessary terminal blocks and is drilled with a 43mm clearance entry to accept the DES-3. However, almost any suitably certified junction box, provided it is drilled with a suitably sized DES-3 entry, may be used.

DES-3 SEALS

Seals are required that have been specifically designed to seal correctly on the Heat Trace range of heating cables. The seals are positioned within the DES-3 base and provide a means of passing the heating cable safely through the DES-3 and into the chosen junction box. Refer to Heat Trace's termination method matrix for the seal sizes needed for the specific heating cables.

END/POWER SEALS

Termination seals, BES and BPS, are required to provide a method of safe power and end termination of a heating cable. A tube of RTV silicone sealant is also necessary.

PIPE FIXING STRAPS

Heat Trace recommend that the PFS range of pipe fixing straps is the most suitable method of holding the DES-3 in position on the pipework. Two pipe fixing straps are required per DES-3.

OPTIONAL EQUIPMENT

A Pt100 RTD sensor may be purchased to enable the DES-3 to be used as a pipe temperature sensing unit.

SPECIFICATION

MAXIMUM EXPOSURE TEMPERATURE: 180°C (356°F)

MINIMUM OPERATING TEMPERATURE: -55°C (-67°F)

DES-3 DIMENSIONS (LxWxH) 112 x 56 x 157mm

IP RATING IP66

APPROVAL DETAILS:

Testing Authority: **Certificate Number:**

ATEX  CML 25ATEX3347X

IECEX  CML 25.0073X

PART No. INFORMATION:

Cat Ref: Description:

- DES-3 DES-3 'top' and 'base' sections complete with locking ring, o-ring, blank seal, screw, shakeproof washer, instructions & caution label.
- DS'n' Silicone rubber seal ('n' indicates No's 1 to 5)
- DS RTD Silicone rubber seal for RTD sensor.
- DS Blank Silicone rubber seal for blanking unused entries.
- PFS025 Pipe fixing strap for <= 2" (50mm) pipework.
- PFS050 Pipe fixing strap for <= 5" (127mm) pipework.
- PFS100 Pipe fixing strap for <= 10" (254mm) pipework.
- PFS160 Pipe fixing strap for <= 18" (460mm) pipework.
- PFS200 Pipe fixing strap for <= 24" (635mm) pipework.

Note: 2 x pipe fixing straps are required per DES-3 unit.

ACCESSORIES:

- FFGn Plastic gland kit ('n' indicates No's 1, 3 or 5)
- BPSn Silicone boot power seal ('n' indicates No's 4 or 5)
- BESn Silicone boot end seal ('n' indicates No's 4 or 5)
- RTV High temperature silicone sealant.

MARKINGS:

 II 2G Ex eb IIC Gb
II 2D Ex tb IIIC Db

EN IEC 60079-0:2018

EN 60079-31:2014

EN 60079-7:2015/A1:2018

DES-3 - Top & Base Sections

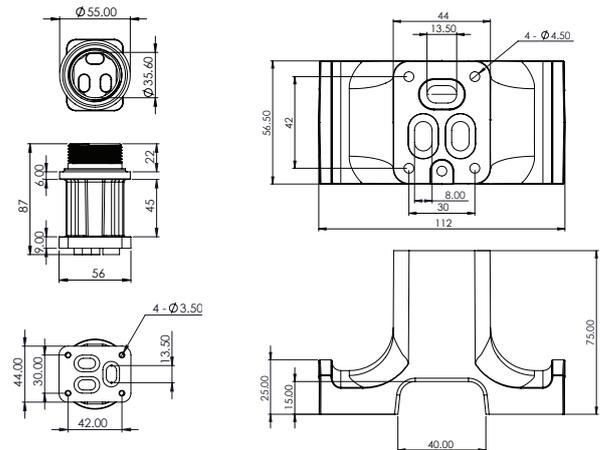


Figure 1

Typical DES-3 Use

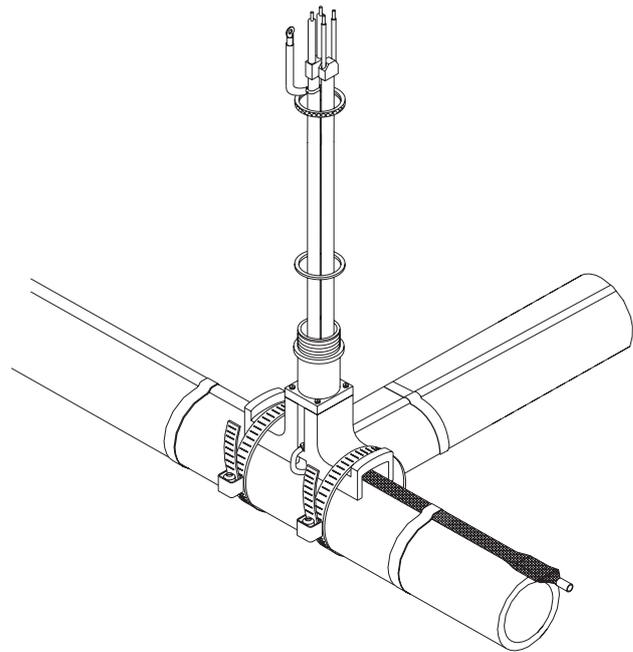


Figure 2

FURTHER INFORMATION:

Please consult the appropriate termination instructions and the Heat Trace Design, Installation & Maintenance Manual (HTDIMM 010) for further details.



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