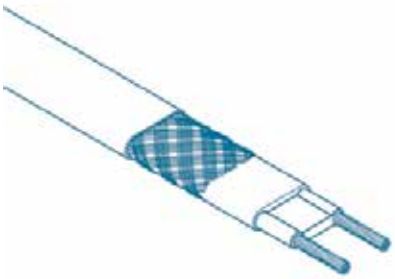
BTV

The BTV range of self-regulating heating cables is mainly used for frost protection of pipes and vessels but can also be used to maintain processes up to 65°C. These heating cables are available in two different outer jacket materials. The polyolefin outer jackets (-CR) are suitable for use in areas where the cables will only be exposed to mild inorganic solutions whereas the fluoropolymer outer jackets (-CT) offer a high general chemical resistance.

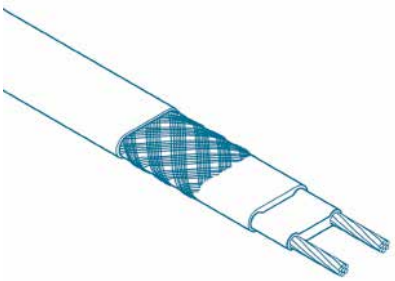
The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust) and have an absolute temperature classification of T6 in accordance with European Standard EN 60079-30-1.



QTVR

The QTVR range of self-regulating heating cables is mainly used for frost protection of pipes and vessels requiring a higher power output than the BTV heating cables can supply. They can also be used to maintain processes up to 110°C. These heating cables all have fluoropolymer outer jackets offering a high chemical resistance.

The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust) and have an absolute temperature classification of T4 in accordance with European Standard EN 60079-30-1.



XTV

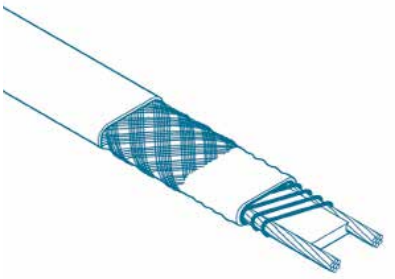
The XTV range of self-regulating heating cables is used for frost protection of pipes and vessels that require steam cleaning. They can also be used to maintain processes up to 120°C. These heating cables all have fluoropolymer outer jackets offering a high chemical resistance.

The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust) and have an absolute temperature classification of T3 (except 20XTV2-CT-T2) in accordance with European Standard EN 60079-30-1.

KTV

The KTV range of self-regulating heating cables is mainly used for frost protection of pipes and vessels that require steam cleaning. They can also be used to maintain processes up to 150°C. These heating cables all have fluoropolymer outer jackets offering a high chemical resistance.

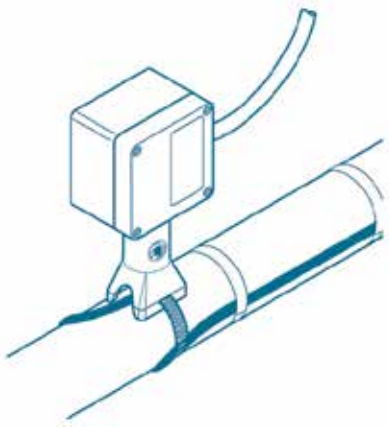
The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust) and have an absolute temperature classification of T2 in accordance with European Standard EN 60079-30-1.



VPL

The VPL range of power-limiting heating cables is mainly used for temperature maintenance of processes and offers the advantage of a high power output at high temperatures which can reduce the number of heating cables required. They can also be used for frost protection of pipes and vessels that require steam cleaning. These heating cables all have fluoropolymer outer jackets offering a high chemical resistance. The VPL products are available in various voltages, 110 Vac, 230 Vac and 480 Vac. The 480 V version offers the further advantage of long circuit lengths potentially reducing the number of supply points required.

The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust). Unlike the self-regulating heating cables the T-classification for these products has to be calculated and will depend on the design conditions, this may also result in the need to use a safety temperature limiter.



JBS-100-E

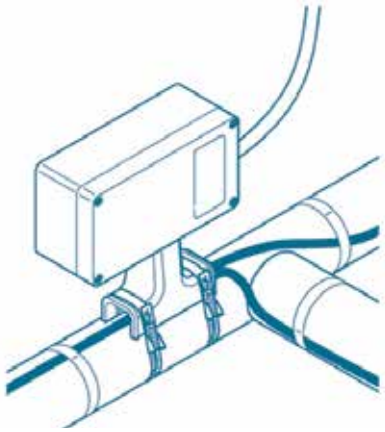
Cold applied integrated power connection for 1 heating cable. One power cable gland included. Suitable for use with all industrial self-regulating or power-limiting heating cables in hazardous and non-hazardous areas. Requires 1 pipe strap, to be ordered separately.

Also available with a green light for basic monitoring, order reference:
JBS-100-L-E.

JBS-100-EP

Cold applied integrated power connection for 1 heating cable. Includes earth plate and earth stud for use with armoured cables. Suitable for use with all industrial self-regulating or power-limiting heating cables in hazardous and non-hazardous areas. Requires 1 pipe strap and 1 metal power cable gland to be ordered separately.

Also available with a green light for basic monitoring, order reference:
JBS-100-L-EP.



JBM-100-E

Cold applied integrated power connection for up to 3 heating cables. May also be used for tee and splice connections. One power cable gland included. Suitable for use with all industrial self-regulating or power-limiting heating cables.

Requires 2 pipe straps, to be ordered separately.

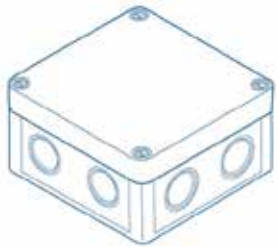
Also available with a green light for basic monitoring, order reference:
JBM-100-L-E.

JBM-100-EP

Cold applied integrated power connection for up to 3 heating cables. Includes earth plate and earth stud for use with armoured cables. May also be used for tee and splice connections. Suitable for use with all industrial self-regulating or power-limiting heating cables in hazardous and non-hazardous areas.

Requires 2 pipe straps and 1 metal power cable gland, to be ordered separately.

Also available with a green light for basic monitoring, order reference:
JBM-100-L-EP.



JB-82

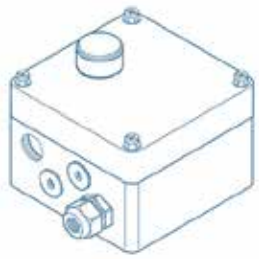
The JB-82 is a standard, non-hazardous polycarbonate junction box. Up to four heating cables or three heating cables and the appropriate size power cable can be accommodated through the four entries and connected to the rail mounted terminals.

JBU-100-E

This junction box provides four M25 threaded entries, stopping plugs and one plastic power cable gland. Suitable for use with all industrial self-regulating or power-limiting heating cables in hazardous and non-hazardous areas. Connection kits (M25), insulation entry kits and support bracket have to be ordered separately.

Also available with a green light for basic monitoring, order reference:

JBU-100-L-E (shown)



JBU-100-EP

This junction box provides four M25 threaded entries, an earthing plate and an external earth stud. It is designed for use with armoured power cables and metal glands. Suitable for use with all industrial self-regulating or power-limiting heating cables in hazardous and non-hazardous areas. Metal power cable gland, connection kits (M25), insulation entry kits and support bracket have to be ordered separately.

Also available with a green light for basic monitoring, order reference:

JBU-100-L-EP (shown)

C25-100

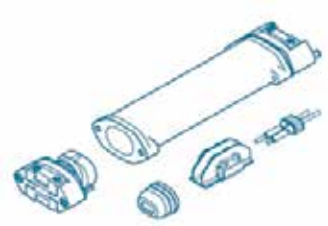
This cold applied connection kit is designed for terminating all self-regulating and power-limiting industrial parallel heating cables to a junction box in hazardous and non-hazardous areas, whilst maintaining electrical insulation of the heating cable conductors and core.

C25-21

This hot applied connection kit is designed for terminating all self-regulating and power-limiting industrial parallel heating cables to a junction box in hazardous and non-hazardous areas, whilst maintaining electrical insulation of the heating cable conductors and core.

C25-100-METAL and C3/4-100-METAL

These cold applied connection kits are designed for terminating all self-regulating and power-limiting industrial parallel heating cables to a junction box with an internal earth plate, whilst maintaining electrical insulation of the heating cable conductors and core. These kits are made from brass, but are also available in a nickel plated version (contact Supermec for more information).

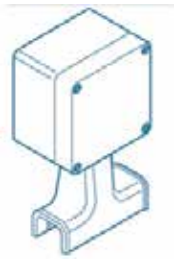


C-150-E

Cold applied low profile power connection for one heating cable for use in hazardous and nonhazardous areas. Maximum load of 25 A. Suitable for non-armoured power cables up to 2.5 mm2 with stranded copper conductors C-150-E is used as a connection kit:
- Where connection to a junction box is difficult e.g. because of space limitations on instrument lines or loading arms
- Where installation of under insulation components is preferred as a cost effective alternative for JBS-100-E on short lines
- The kit is not suitable for use with VPL heating cables.

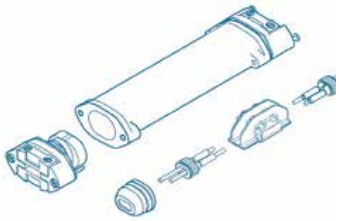
IEK-25-PIPE/IEK-25-04

Insulation entry kits for pipes, tanks and vessels usable for IEK-25-04 heating and power cableswith outside diameter in the range of 8 - 17 mm. The IEK-25-PIPE has a high temperature standthat can be fixed to the pipe whereas the IEK-25-04 is mounted on the cladding.



T-100

Cold applied kit for making tee or splice connections with crimps, above the insulation inhazardous and non-hazardous areas. Requires 2 pipe straps, to be ordered separately. Required crimp tool, reference: **T-100-CT**
Suitable for use with all our industrial self-regulating or power-limiting heating cables.



S-150

Cold applied low profile splice kit for making splice connections with terminals under the insulation in hazardous and non-hazardous areas. Not suitable for use with VPL heating cables.

FMT

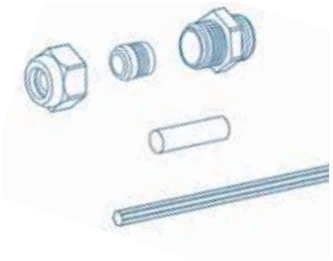
The FMT range of constant wattage parallel circuit heating cables is used for frost protection of pipes and vessels that are subject to steam cleaning but can also be used to maintain processes up to 150°C. They can withstand up to 200°C power-off. These heating cables all have fluoropolymer outer jackets offering a high chemical resistance.
The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust). Unlike the self-regulating heating cables the T-classification for these products has to be calculated and will depend on the design conditions, this may also result in the need to use a safety temperature limiter.

FHT

The FHT range of constant wattage parallel circuit heating cables is used for frost protection of pipes and vessels that are subject to steam cleaning but can also be used to maintain processes up to 230°C. They can withstand up to 260°C power-off. These heating cables all have fluoropolymer outer jackets offering a high chemical resistance.
The FHT products are available in two voltages, 230 Vac and 400 Vac. The 400 Vac version offers the advantage of long circuit lengths potentially reducing the number of supply points required.
The products are approved for use in hazardous areas Zone 1, Zone 2 (Gas), Zone 21 and Zone 22 (Dust). Unlike the self-regulating heating cables the T-classification for these products has to be calculated and will depend on the design conditions, this may also result in the need to use a safety temperature limiter.

C20-01-F

Hot applied connection kit designed for terminating FMT and FHT heating cables to a junction box, whilst maintaining electrical insulation of the heating cable. Uses a M20 plastic gland.
Approved for use in hazardous areas.



C20-02-F

Hot applied connection kit designed for terminating FMT and FHT heating cables to a junction box with an internal earth plate, whilst maintaining electrical insulation of the heating cable.
Uses a M20 metal gland. Requires crimp tool C20-02-CT.
Not approved for use in hazardous areas.