ELEC TRACE
Heating Cable Manufacturer

ET-I-SQB

Junction box for use with Elec-trace cables

MULTIPLE-ENTRY OCTAGON POWER CONNECTION WITH JUNCTION BOX

- ★ Available for use in safe and hazardous areas
- ★ All boxes suitable for use with all styles of heating cable
- ★ Complete range of boxes & terminal
- ★ NEMA 4X

Product overview

The PTBS-GET kit is designed to connect power to a single JiaHong heating cable.It is approved by CSA and IEx for use in hazardouslocationsslocat..
The PTBS-GET integrates the fuionct s of connection kits and insulation entries. The rugged stand protects the heating cable and allows for up to four inches (100 mm) of thermal insulation.
The cold-applied core sealer does not require a heat gun or torch for installation, so no hot work permit is necessary.
The silicone-free, noncuring sealant allows easy installation and re-entry for maintenance.
Innovative spring clamp terminals provide fast installation and safe, reliable, maintenance-free operation.
Compared with other systems, this connection kit significantly reduces installation time.
The kit contains all the necessary materials for a complete installation except for one pipe strap, which must be ordered separately.

SPECIFICATION

OPERATING TEMPERATURES	-40°C to +56°C (-40°F to +133°F)
EARTH CONTINUITY PLATE	Available as extra
APPROX VOLUME	1296cm^3
MATERIAL	Glass reinforced Polyester, Fire Retardant

Installation Instructions

1.After the seal fitting is open, put the junction box cap, strain relief disk,grommet, and body onto the power connection of cable.

Figure 1

2. Slice completely around heating cable outer jacket, and then down a distance of 4.5” (119mm), being careful not to cut braid or inner jacket. Then, bend heating cable to break jacket where sliced, and peel off outer jacket

Figure2

3. Carefully push braid back to loosen and spread apart as shown.

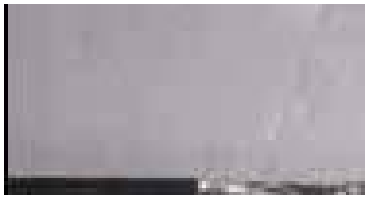

Figure3

4. The heating cable must be bent as shown in Figure 8 so it can be pushed through the braid opening.

Figure4

5. Place braid to one side of cable. Cut inner jacket of cable back 3.5”(90mm).

Figure 5

6. Shave off outer matrix material from conductors with utility knife. See Figure 6.

Figure 6

7. Peel back exposed wires from central matrix material. See Figure 7. Do not cut bus wire strands!

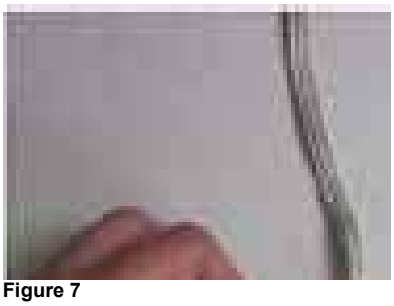

Figure 7

8. Cut off remaining center core of matrix; leaving the bare conductors. Do not cut bus wires!

Figure 8

9. Slip on black shrink tubes 3” (77mm) in place up to conductive core.

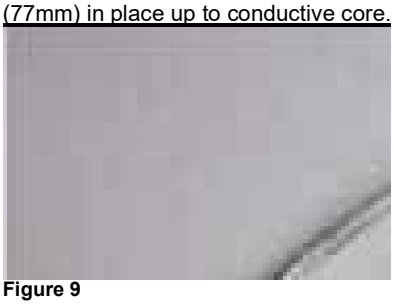

Figure 9

10. Carefully shrink tubing by moving heat source from side to side continuously; being careful not to damage heating cable.

Figure 10

11. Then, insert green/yellow tube over braid and shrink.

Figure 11

12. Center black shrink tube 1” (25mm) over end of heating cable as shown in Figure 12.

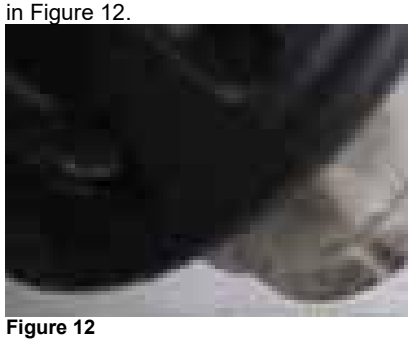

Figure 12

13. While tube is still hot, pinch tube with pliers, between wires, and hold for 10 seconds to ensure seal. See Figures 13.

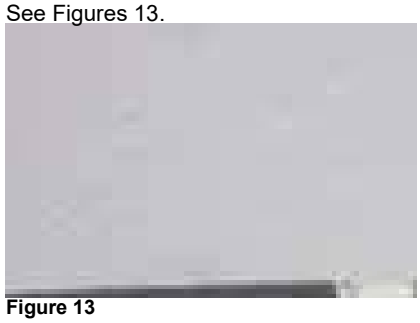

Figure 13

14.For heating cables with an outer jacket, slide parts in place as shown below.

Figure 14-1

Figure 14-2

15.**power wire**:Cut inner jacket of cable back 3.9”(100mmm)，
Cut Conductor wire 0.5”(12mm)

Figure 15

16.Connect the power conductors to the cable leads. Connect the incoming supply ground to the cable braid and to the green ground wire. The wire nuts, included, are not for use with aluminum feed wires. The junction box needs to be grounded.

Figure 16-1

Figure 16-2

Figure 16-2

Figure 16-3

Figure 16-4