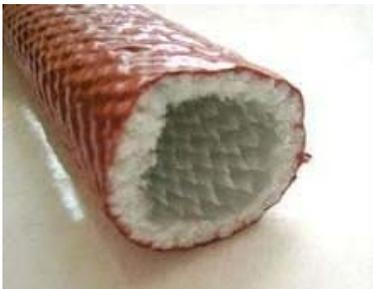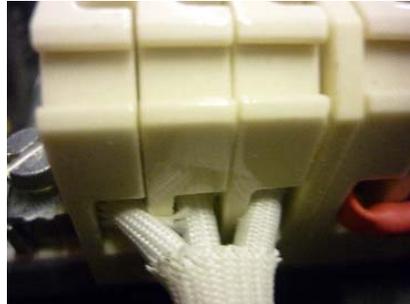# Fire Rated Junction Box Installation Guide

It is important that the following procedures are carried out by qualified electricians or electrical contractors during the installation of CE-TEK Fire Rated Junction Boxes. Failure to carry out these procedures will leave the junction box from not functioning as intended in the event of a fire and may leave human lives at risk, it will also invalidate any guarantees or warranty afforded by CE-TEK for its fire rated junction boxes.

1. Fix the junction box to a wall or solid surface using the fixing points and fit the fire rated cables using appropriate cable glands.

2. Bring the internal cores through to the inside of each enclosure.

3. Fit over each cable core a separate glass fibre insulating sleeve. The sleeving is an important component in the event of a fire. Each sleeve is constructed from thick-wall glass fibre and coated with a silicone elastomer with a red oxide additive. The glass fibre braid will withstand temperatures of up to +550°C and the silicone up to +1000°C. Alternative silicone sleeving can be used but check that the thermal properties meet the enclosure and cable maximum temperature rating before using.
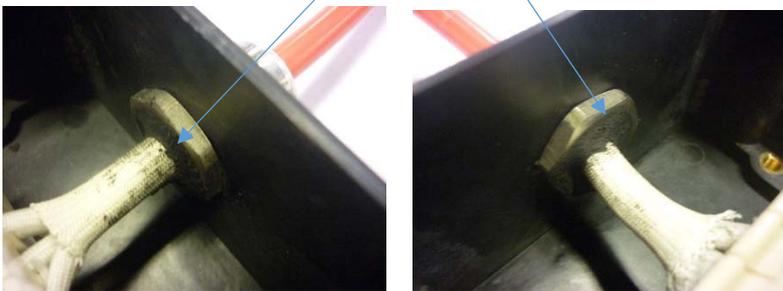
4. Connect the incoming cores to the ceramic terminals using the glass fibre sleeving.

5. Apply fire rated putty/cement to cover the cable gland opening in order to prevent possible fire/heat ingress via the fire rated cable or gland and allow to set.

Fire rated putty/cement sealing between the insulated cable and gland

6. Finally, check that there is no movement around the fire cement area and fit the junction box lid securely, using the screws/cage nut combination.