

Always. Reliable. Tight.



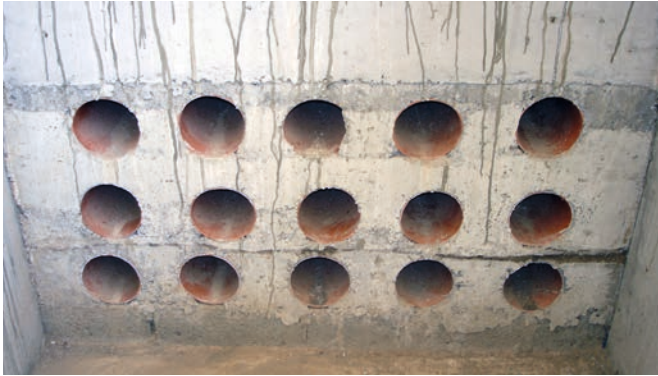
Electricity substations in the Sultanate of Oman

Press seals

Universal press seals

Requirements

Sealing against animals, sand, gas and water of cable entries into the basement as well as manholes at several substations with the universal press seal UNI power.



Inside of building
wall sleeves - some oval - that are still unoccupied



Inside of building
several cables of different diameters are laid into the building



Inside of building
introduction of various cables as well as unoccupied openings

The requirement is to seal medium-voltage cables and control cables in electricity substations from the external transformer (33 kV/11 kV) to the switchgears inside the building and cable basement subsequently. The cables - partly laid in oval wall sleeves - have to be sealed to prevent the ingress of animals, sand, water and gas. The challenge is to develop a cable seal, which is adjustable to the outside diameters of the cables and to the deformed oval wall sleeves. The cable diameters vary from Ø 14 up to 108 mm, and the wall sleeves from Ø 145 up to 165 mm. The use of segmented ring technology provides the answer to all these challenges and also allows the provision of reserve openings for additional cables to be laid in the future. Since not all openings are occupied with cables, an easy process for retrofit and later laying of cables is also required.

Universal press seals

Installation and end result



Segmented ring technology
the split design allows effortless removal of the individual segmented rings

The universal press seal is ideal for use in core drillings or wall sleeves for sealing medium and low-voltage cables. The split design allows effortless installation – even on cables that are already in place. Integrated blank seals keep reserve openings sealed, ready for later laying of additional cables. Segmented ring technology allows any cable seal to be adapted to the individual cable diameter in seconds. All what is needed is to easily remove the segmented rings, place the seal around the cable, insert the cable seal in the wall sleeve and tighten the screws with the torque meter!



Using universal press seal elements, standard openings provided by individual cable arrangements are easily, quickly and securely sealed.

Facts

Project information and solutions provided by Hauff-Technik

Project information	
Location	Electricity substations in the Sultanate of Oman Al Buraymi S/S. No. 4 Sohar Industrial S/S. No. 4 Falaj Al Qabail
Application	retrofit sealing of already laid cables in new buildings
Requirement	universal press seal to prevent ingress of animals, sand, water and gas
Architect	Majan Electricity Company (SAOC)
Installation company	United Engineering Projects Co. L.L.C. Eastern Overseas L.L.C.

Solutions provided by Hauff-Technik	
Specification	retrofit seals with universal cable seals
Solution	universal press seal with segmented ring technology
Capacity	82 press seals