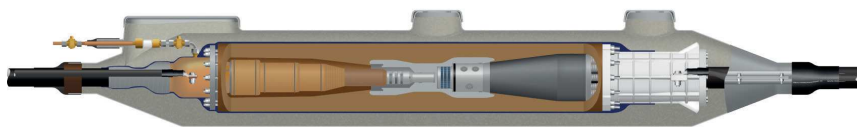


Transition joint for single-core LPOF – XLPE cable

Design

- The different versions of the USM transition joint are designed for operating voltage from 72.5 up to 170 kV and connect a single-core oil-filled cable with a single-core XLPE cable.
- The two cables will be connected by a common epoxy resin insulator with embedded electrode.
- The XLPE-side is designed with a fixing ring and plug-in part, comprising metal cable gland with spring loaded device and pre-moulded silicone stress cone for electrical-field control.
- The standard conductor bolt is of screw type.
- The oil cable stress cone is made of oil-impregnated insulation paper, carbon paper, copper mesh and a stress relief ring.
- A compression-type conductor connector, an inlet funnel with oil feed-in and all necessary assembling accessories are part of the kit.
- Only approx. a 15-litre filling with cable insulation oil is needed.



Application

Transition joint and single-core low-pressure oil-filled and XLPE cables with Al or Cu conductor.

Standards

- IEC 60840
- CIGRE 415 06/2010

Note

- Connection of a three-core LPOF cable is possible with the AGOW trifurcation kit.

Optional kits:

- Optical fibre kit

Technical details

Voltage	Type/ Designation	Max. XLPE cross section	Max. LPOF cross section	Max. XLPE cable insulation diameter	Max. oil side	Max. dimensions (length, ...)
kV		mm ²	mm ²	mm	mm	mm
123-170	USM 170-OX	2500	1200	47.0 – 100.0	110.0	2700 x 450