Appendix dated 03.09.2012
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Additions to KG4073

1. General points

This appendix is supplementary to Technical Description KG4073 (Version 1_12.08.2005) and must be applied together with this specification and observed during manufacture!

2. 10 kV cross-linked polyethylene cables

The following 10 kV cross-linked polyethylene cable types (cf. KG4073 section 3.3.) are required:

NA2XS(F)2Y 1 x 240 rm or re / 25

NA2XS(F)2Y 3x1 x 240 rm or re / 25, stranded

3. Tests on cables

3.1 Routine test

All routine tests on cables must be carried out in accordance with DIN VDE 0276-603 and DIN VDE 0276-620. Contrary to DIN VDE 0276-620, the following applies:

Measurement of partial discharge: Directly after the voltage test

Calibrating pulse 2 pC (calibration prior to voltage test)

Background noise level <= 1pC

Test voltage 3.5xUo (during voltage test)

or 2xUo (prior 20% increase in test voltage, 1 min. to 14.4 kV)

Duration 1 min.

Permissible noise level <= 1pC

Test reports must be submitted to the customer.

3.2 Sample test

All sample tests on cables (10% of delivery lengths) must be carried out in accordance with DIN VDE 0276-603 and DIN VDE 0276-620. The number of sample tests can increase for initial delivery or in the case of

defects. The number of sample tests must be agreed with the customer prior to initial delivery. Test reports must be submitted to the customer.

3.3 Acceptance in the plant

As a general rule, routine and sample tests are conducted on 10% of the delivery lengths in the plant in the presence of the customer. The full delivery length is tested on initial delivery. The number of tests is increased in the case of defects.

The schedule for acceptance and the scope of testing must be submitted to the customer in good time before the acceptance date.

The supplier must give the plant due notice of the delivery lengths scheduled for acceptance prior to delivery. A minimum notice period of four weeks applies in the case of
Stromnetz Berlin GmbH department.

4. Approval and delivery

The delivery lengths must be approved by the customer prior to delivery. The request for approval of the delivery or acceptance in the plant must be delivered at least four weeks prior to the planned delivery for Stromnetz Berlin GmbH department.

5. Transport and storage of cables

The following requirements must be met in addition to DIN VDE 0276, Parts 603 and 620:

The starts and ends of the cables must be sealed with watertight shrink-fit caps which are coated with adhesive. The outer end must be secured with a V-shaped bracing so that the outer layers of the cables cannot come loose during transport. The inner cable end must not be routed out of the side of the drum disk but must be secured on a continuous screw.

The coil size must be agreed with the customer. The coil size must be adapted to the requisite delivery length so that damage to the outer cable layer is prevented. At least 1x the diameter of the cable or strand bundle must remain clear for the flange bearing surface.

Coils conforming to DIN EN 46391 must be used.

The following information must be specified on the sheets accompanying the coils on both sides of the flange in a watertight and clearly legible manner: delivery data, exact cable designation, cross section (conductor, screen), voltage, cable length, coil number and direction of rotation of coil.