

dametric 

# K-DDRSC

VAL0142266 / SKC7314328



ROTATING CABLE FOR RGP-DD68



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**1. GENERAL**

Revision 3.3: The outer mould over the curvature close to the TDC sensor is removed.  
 During the mounting of the cable it is urgent that the mounting descriptions are followed. Please contact Metso or Dametric if any obscurities are noticed. Erroneous assembly or sealing’s will lead to unacceptable durability of the plate gap measurement.  
 Consider following advices during assembly.

- Always change the sealing’s
- Grease the sealing with appropriate lubrication
- Clean the sealing surfaces but do not destroy the smoothness.

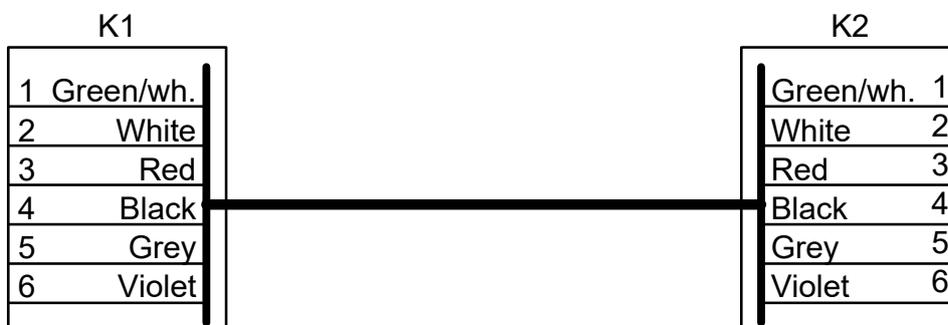
**2. DETAILED DESCRIPTION**

Connector, TDC end: 6-pole contact with screw coupling, BTK-KA6F  
 Connector, amplifier end: 6-pole contact push-pull type, LE-2E-KABM + LE-2S-ISO  
 Cable: 6 conductor metal braided cable with Kapton® insulation 0.4 mm²  
 Cable protection: Stainless steel metal hose  
 Length: 3.72 m  
 O-rings: Viton® 12\*2 Viton® 21\*2 Viton® 8.1\*1.6

Items packed with this cable

Mounting bracket: Toothed bracket for mounting of cable.  
 Draw wire Including mounting sleeve.  
 Molykote® -55M Silicone based lubricant for O-rings  
 Spare O-rings Viton® 12\*2 Viton® 21\*2 Viton® 8.1\*1.6

**3. CONNECTION DIAGRAM**



#### 4. DISMOUNTING OF THE OLD CABLE

- Open the refiner hosing.
- Remove line shaft protection cover, Safeset<sup>®</sup> safety coupling and the TVD-transducer.
- Remove the lid that covers the TDC transducer.
- Remove the aluminum ring that supports the connector.
- Loosen TDC transducer.
- Unplug the connector from the TDC transducer (screw coupling).
- Remove the TDC transducer. Make sure that the rod seal doesn't get stuck in the rotor.
- Remove the segment holder.
- On the coupling side, remove the locking bolt from the clamp that holds the connectors in place. (Located inside/ beneath the rotating transformer)
- Remove the cable clamp and unplug the connector (Push-Pull type). Protect the open connectors from getting polluted.
- Unscrew the outer shell of the Lemo<sup>®</sup> connector from the cable.
- Fasten the draw wires mounting sleeve on to the cables metal hose.
- Gently pull out the cable from the TDC side and at the same time pull in the draw wire.
- Disconnect the draw wire from the old cable.

## 5. MOUNTING OF THE NEW CABLE

- Check that the TDC-hole in the segment and the segment holder are fitted concentrically.
- Make sure all sealing surfaces are cleaned, especially on the rotor (for the rod seal and the gasket) and on the sealing sleeve located in the shaft.
- Unscrew the outer shell of the Lemo<sup>®</sup> connector from the new cable.
- Connect the draw wire (now located inside the rotor axis) to the new cable.
- Pull in the new cable using the draw wire. Note! Be sure that the center sleeve is fully entered into the shaft, deburr the entering chamfer if needed. All O-rings should be lubricated with Molykote<sup>®</sup> 55M.
- Reinstall the segment holder. If necessary replace the O-ring in the segment holder.  
Ensure that the cable does not get crushed between the rotor and the segment holder!  
Also see to that the hole for the TDC transducer in the segment holder and the hole in the rotor are fitted concentrically.
- Indicate the polarization of the connector and the TDC transducer by connecting the TDC to the cable and make a vertical mark on the TDC transducer.
- Remove the rod seal from the TDC transducer, lubricate with Molykote<sup>®</sup> 55M.
- Push the rod seal in to the TDC transducer hole.  
Make sure the rod seal is fitted the right way!!!
- Push the TDC transducer in to the hole and the rod seal, align the previous made marking vertical.
- Connect the cable connector to the TDC transducer. 4-5 turns.  
The blue indication mark on the socket disappears when the cable is fully connected.
- Tighten the TDC transducer with the “split bolt circle ring”. Limit the screw torque to 5 Nm, half of the normal torque for M6 screws.
- Mount the aluminum ring that supports the TDC transducer connector.
- Mount the TDC transducer lid with a new gasket.
- On the coupling side, disconnect the draw wire from the cable.
- Fasten the outer shell of the Lemo<sup>®</sup> connector on to the cable, tighten it.
- Put the cable through the radial hole in the shaft.
- Stretch the cable tight and fasten it with the toothed cable bracket. Note! It is very important that the cable is firmly stretched to avoid damages caused by centrifugal forces on the cable.
- Connect the cable to the rotor-electronics (Push-Pull type)
- Before continuing, make sure that the monitoring system operates properly.
- Place the connected cable ends in the intended clamp. (Located inside/ beneath the rotating transformer) Tighten it with the locking bolt.
- Mount the TVD-transducer, Safeset<sup>®</sup> safety coupling and the line shaft protection cover.
- Close the refiner hosing.

## 6. CONTACT

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