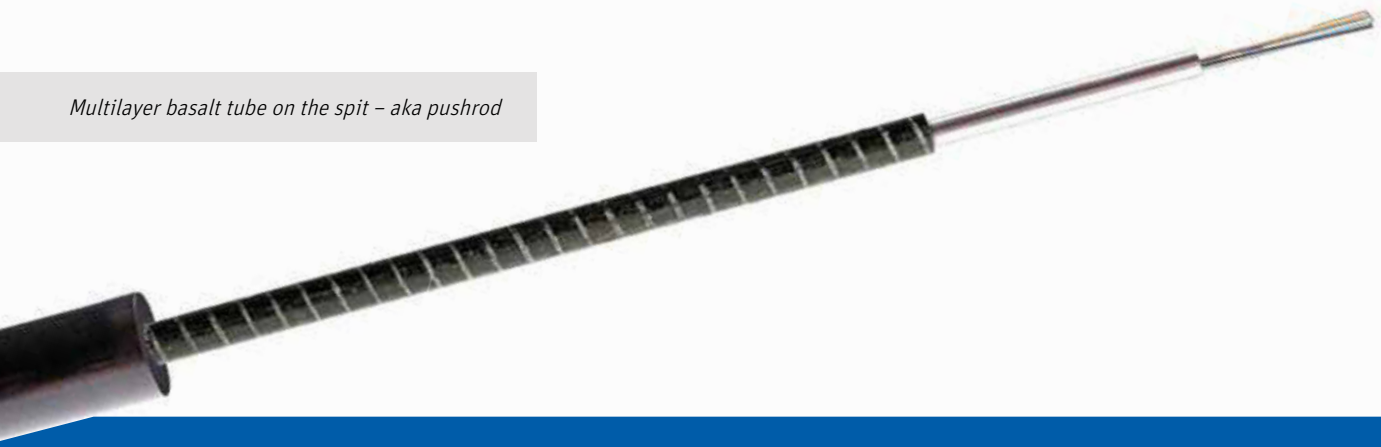

Multilayer basalt tube on the spit – aka pushrod

CONTENTS OF MANY KINDS

Multilayer basalt tube suitable for application in demanding settings

With their new multilayer basalt tube Franconian producer CG-Tec and its Austrian development partner NBG Systems GmbH present a type of new composite core. It combines high-performance basalt fiber, high strength stainless steel tubes, a communication element (optical fibers, coax or copper wires) and optionally a polyamide, polyethylene or high-density polyethylene sheath.

This composite cable core has excellent properties including lightweight, high strength, high temperature, lower line loss, small sag.

The cable is based on a new high-tech material, the mineral fibers of basalt, an alkaline volcanic rock. The material was originally intended for the thermal insulation of nuclear reactors, and now it is used as a material mix which practically eliminates cable breakage. Frequent repairs due to cable breakage will now be a thing of the past. Because of its unique properties it is practically indestructible, permanently unbreakable, and still retains its functionality at high temperatures.

One for all

Depending on the task required, the stainless steel metal tube is configured in turn with a varying number of optical and copper conductors for the transmission of control and data signals. Despite its outstanding protective properties, the new hybrid cable is extremely lightweight, unlike armored cables, for example.

Being suitable for application in high temperature, high pressure and high voltage environs the said multilayer basalt tube is intended for use in permanent installations, e.g. in the cabling of buildings or tunnels.

Features of basalt fibers

- temperature of application: -30 °C up to +70 °C (max. +80 °C)
- weight approx. 31 kg/km
- high tensile strength up to 29 kN
- breaking load up to 12 kN
- rodent protected
- chemical resistant
- bend resistant
- fire-resistant
- natural product
- can be used as a push rod
- optionally available with a polyamide, polyethylene or high-density polyethylene sheath

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