# 14.1419 DITEMP BUDGET TEMPERATURE SENSING CABLE



For distributed temperature sensing



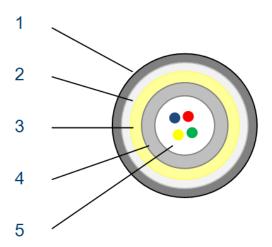




## **GENERAL DESCRIPTION**

The DiTemp<sup>®</sup> Budget Temperature Sensing cable is a reliable budget sensor for the evaluation of distributed temperature over several kilometers.

The DiTemp® Budget Temperature Sensing cable is used in a wide range of applications that require distributed temperature sensing, such as temperature monitoring of concrete in massive structures, waste disposal sites, on- and off-shore sites in gas and oil industry, hot spots, cold spots and leakage detection of flow lines and reservoirs, building installations, just to name a few.



## **TECHNICAL DESCRIPTION**

The DiTemp® Budget Temperature Sensing cable is a small fiber optic cable, armoured with different protective layers that includes a 2.2 mm Stainless Steel loose tube, a Kevlar reinforcing sheath, a Stainless Steel braiding sheath and an outer PE jacket. The central loose tube contains up to 4 fibers with acrylate coating.

This sensor is suitable for outdoors and harsh environment applications with different methodology of installation: direct burial in the ground or concrete, clamped to a pipe, anchored or glued.

Thanks to the multi layer package design the DiTemp<sup>®</sup> Budget Temperature Sensing cable offers high tensile strength, crush resistance, chemical and abrasion resistance and good rodent protection.

The DiTemp® Budget Temperature Sensing cable is fully compatible with the DiTemp® system and all its accessories.

- 1 PE outer jacket
- 2 Stainless Steel braiding sheath
- 3 Kevlar sheath
- 4 Stainless Steel loose tube
- 5 Temperature Multi Mode Fiber

## **FEATURES**

- DiTemp compatible
- · High tensile strength
- High crush resistance
- Good rodent protection
- · Abrasion resistant cable sheath
- Flexible
- Fast temperature response



#### **TEMPERATURE RANGE**

Operating temperature
 Storage temperature
 Installation temperature
 -55 °C to +85 °C
 -10 °C to +50 °C

### **TECHNICAL DATA**

Outer diameter
 Weight
 Max crush resistance
 5.0 mm
 38 kg/km
 3300 N/cm

Max tensile strength

Max tensile strength

Min bending radius

Min bending radius

Min bending radius

Min bending radius

75 mm (without tensile)

#### FIBER TYPOLOGY

Fiber support
 MMF 50 / 125 μm ITU-T G.651 compliant

Fiber attenuation (cabled @ 20 °C)
 ≤ 3.5 dB @ 850 nm
 ≤ 1.5 dB @ 1300 nm

Number of fiber

## **ACCESSORIES AND ORDERING INFORMATION**

- Cable termination with connectors
- Junction box
- Splice box

