14.1418 DITEMP ORDINARY TEMPERATURE SENSING CABLE HDPE



For distributed temperature sensing



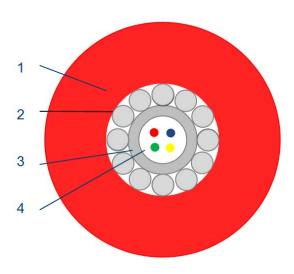




GENERAL DESCRIPTION

The DiTemp[®] Ordinary Temperature Sensing cable HDPE is a unique sensor for the evaluation of distributed temperature over several kilometers.

The DiTemp® Ordinary Temperature Sensing cable HDPE 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.



- 1 HDPE outer sheath
- 2 Sainless steel wires, 316L
- 3 Stainless stell loose tube, 316L
- 4 Bend insensitive optical fibers

TECHNICAL DESCRIPTION

The DiTemp® Ordinary Temperature Sensing cable HDPE is a small fiber optic cable, armoured with stainless steel loose tube gel filled, stainless steel strength members and HDPE outer sheath. The central loose tube is hermetically sealed and contains 4 bend insensitive fibers with a dual layer acrylate coating for increased micro bending performance.

This sensor is particularly 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 special package design the DiTemp[®] Ordinary Temperature Sensing cable HDPE offers high tensile strength, crush resistance, longitudinal and lateral water tightness, chemical and abrasion resistance and excellent rodent protection.

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

FEATURES

- DiTemp compatible
- · High tensile strength
- · High crush resistance
- Excellent rodent protection
- · High chemical resistance
- Robust abrasion resistant cable sheath
- Longitudinally and laterally watertight
- Compact and flexible
- Halogen free
- Fast temperature response



TEMPERATURE RANGE

Operating temperature
 Storage temperature
 Installation temperature
 -40 °C to +85 °C
 -40 °C to +85 °C
 -10 °C to +50 °C

TECHNICAL DATA

Outer diameter
 Weight
 Max crush resistance
 800 N/cm

Max tensile strength
Max tensile strength
Min bending radius

Hydrostatic pressure
 300 kPa (bar)

FIBER TYPOLOGY

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

Fiber attenuation (cabled @ 20 °C) ≤ 3.0 dB @ 850 nm
 ≤ 1.0 dB @ 1300 nm

Number of fiber

CERTIFICATION AND COMPLIANCE

Cable tests complying with IEC 60794-1-2

ACCESSORIES AND ORDERING INFORMATION

- Cable termination with connectors
- Junction box
- Splice box

