

Sheath Thermocouple generally

14.0

Sheath thermocouple due to DIN 43721

Description

Generally Sheathed thermocouples are used for temperature measurement in industrial plants.

> Due to their flexibility and small dimensions they are particularly suitable for mounting in confined places. Due to the complete filling with mineral the sheathed thermocouple is

largely insensitive to shock and vibration.

Construction In sheathed thermocouples, the thermocouple wires embedded in ceramic insulating

powder (aluminium oxide) and pressed into a metal tube made of heat resistant steel. The robust construction allows for subsequent bending and crushing (for tube fittings),

without the element suffers damage.

Thermocouple Fe-CuNi

> NiCr-Ni PtRh-10-Pt

Outer sheath Stainless Steel M-No. 1.4541

Heat resistant steel (Inconel) M-No. 2.4816

Diameter oft he

2-wire sheathed cable outer sheath

0,5/1,00/1,50/1,60/2,00/3,00/3,20/4,50/4,8/6,00/6,40/8,00

4-wire sheathed cable 1,50/2,00/3,00/3,20/4,50/6,00/6,40/8,00

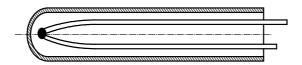
Wall thickness ca. 15 % oft he sheathed cable

Wire gauge The thermocouple diameter is ca. 15 % of the sheathed cable diameter

Bending radius The minimum possible bending radius of the mineral insulated conductor is at three

times the outer diameter

Version Thermocouple isolated from the bottom



Thermocouple welded to the bottom

