

# Product description of ZS-P-1 model grain bin temperature cable

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temperature cable Co., LTD

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# ZS-P-1

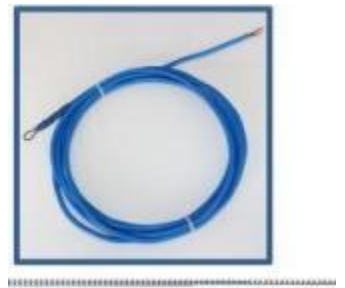
General round copper

- double copper wire transmission signal
- tensile resistance > 200KG

■ Encompassing tensile steel wire

■ Edible grade outer sheath

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## Application environment

It is mainly used to measure multipoint ( ) at -50 to 85 degrees. 5. . Temperature value above the precision. 0 is appligrain bin temperature cable to (1) bungalow grain warehouse (2) machine room temperature measurement (3) concrete temperature

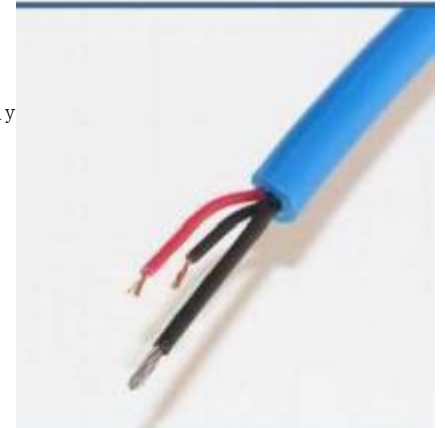
measurement (1) grain bin temperature cable temperature measurement (5) cold storage temperature measurement (6) environmental temperature measurement (?) Soil layer temperature measurement and other occasions that need a certain tensile

strength, or multi-point temperature measurement occasions.

0 The following environment is not recommended: (1) scenes with high impact force (2) scenes with high tensile strength requirements (3) scenes with being fully immersed in water (4) occasions with strong electromagnetic interference (5) occasions where the temperature is maintained or exceeded at 80 degrees Celsius for a long time.

## Basic parameter description

1. grain bin temperature cable insulation outer sheath material : high-pressure poly compression and wear resistance) or PVC (sun exposure resistance, bending degree, good ductility)
2. grain bin temperature cable inner core : double copper wire + tensile steel wire
3. Temperature measuring chip : 18B20 (DS18B20 / QT18B20 / CT18B20)
4. Chip temperature measurement precision:  $\lt \pm 0.5^{\circ} \text{ C}$  repeat error  $5 \pm 0.2^{\circ} \text{ C}$
5. Chip temperature measurement range :  $-55^{\circ} \text{ C}$  to  $125^{\circ} \text{ C}$
6. Recommended environment for grain bin temperature cables :  $-50^{\circ} \text{ C}$  to  $85^{\circ} \text{ C}$
7. Chip acquisition method : double line (parasitic mode) can also be customized three line (power supply mode)
8. grain bin temperature cable Waterproof Grade : IP58
- 9 grain bin temperature cable gas prevention : fumigation and corrosion prevention.
10. Inner core wire :  $0.3^2$
11. Line core color: black line is GND line, other colors are DQ line.
12. grain bin temperature cable number : Customizable TH (grain bin temperature cable storage), TL (layer number storage) memory sorting values.
13. Resistance parameters: > 150KG
14. Operating Voltage : 3-5.5 VDC
15. Minimum two-point interval: 10cm



## Design feature

This product is a plastic outer sheath. There are three inner core wires inside (one of which is the tensile steel wire inner core). The bottom head uses injection molding process to treat the tail die-cast steel unring, easy to use. Protection level is IP58. Signal inner core and ground wire inner core use twisted pair treatment, effectively offset the external electromagnetic " disturbance, and the internal signal mutual I disturbance problem. Internal

built-in, a 181) 20 temperature sensor.

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## direction for use

The 0 black wire core is the ground wire, please be connected with the ground wire of the acquisition equipment, and the other colors are the signal wire, connected with the DQ wire of the equipment, and the other one is the tensile steel wire.

0 and chang communication line. In order to ensure the communication quality, the inner core diameter of the communication grain bin temperature cable shall not be no less than 0.2 shun 2. Long-distance communication recommends using 0. 5 just 2 twisted pair grain bin temperature cable as an extended communication grain bin temperature cable

0 long Ren De use (> 500m) recommended to use DS18B20 imported temperature measuring chip, the longest test distance is: 2200m [single channel 180 points) (two wire system, 0.3mm2 wire core, twisted pair)