

# THERMOCOUPLE EXTENSION WIRE

PVC insulated, shielded; armoured; 105°C, UL Listed

## Features:

- Flame retardant and not-propagating
- NEC art. 725, Class 2 & 3 electrical circuits and Class 1 Division 2 hazardous locations
- Resistant to acids, alkalis, oils, weather and sunlight
- UL listed
- Suitable for direct burial applications
- Suitable for suspension and vertical drop applications

## Applications:

### Construction

Conductors	:	1,3 mm <sup>2</sup> (16 AWG) solid extension grade according to ITS 1990
Insulation	:	105° PVC, 0,4 mm nominal
Construction	:	twisted conductors
Lay of twist	:	55 mm nominal
Shield	:	0,05 mm polyester-backed aluminium tape, 100% coverage and 35% overlap
Drain wire	:	0,9 mm <sup>2</sup> (18 AWG), 7 strands, tinned copper
Inner jacket	:	90°C PVC, 0,5 mm nominal
Armour	:	galvanized steel wire, 0,64 mm o.d. nominal, 80% coverage
Outer jacket	:	90°C PVC, 0,8 mm nominal
Limits of error	:	according to ANSI 96.1/IEC-584
Colour code	:	according to ANSI 96.1/IEC-584

### Specifications:

### Electrical/Physical

Insulation passes 3000 V AC spark test.

Completed construction passes a dielectric test of 2500 V AC for 10 sec (conductor to conductor and conductor to shield).

Conductor resistance	:	see sheet table
Capacitance (conductor to conductor)	:	187 nF/km nominal
Inductance	:	less than 1 mH/km
Circuit voltage rating	:	300 V max.
Operation temperature (max.)	:	insulation 105°C, jacket 90°C
Lower flexibility limit	:	-15°C

(nominal values)

### Dimensions and weight:

Conductor size		outside	weight	min. bend
AWG	mm <sup>2</sup>	Ø mm	kg/km	radius
16	1,3	10,7	165	57

### Ordering code:

#### Calibration

Iron-constantan  
Chromel-alumel  
Copper-constantan

#### 16 AWG

P/ALPWpTw-16-JX  
P/ALPWpTw-16-KX  
P/ALPWpTw-16-TX