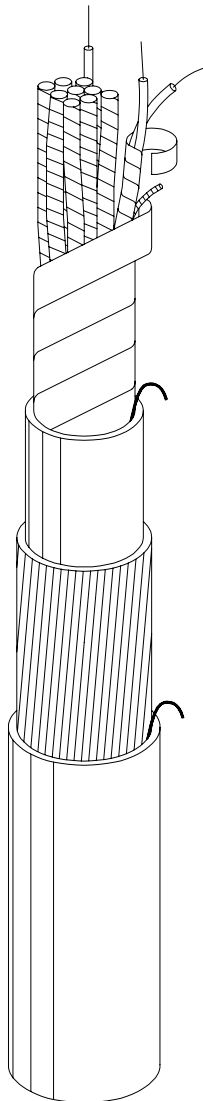


# THERMOCOUPLE EXTENSION CABLE (UL)

PVC insulated, individual and overall shielded, armoured; 105°C

## Specifications:



### Construction

Conductors	:	0,8 mm <sup>2</sup> (20 AWG) solid, thermocouple extension grade according to ITS 1990
Insulation	:	105° PVC, 0,4 mm nominal
Construction	:	twisted pairs
Lay of twist	:	50 mm nominal
Individual shield	:	0,035 mm polyester-backed aluminium tape and 0,025 m polyester separation tape providing 100% coverage
Drain wire	:	0,35 mm <sup>2</sup> (22 AWG), 7 strands tinned copper
Communication wire	:	0,35 mm <sup>2</sup> (22 AWG), 7 strands copper, PVC insulated
Cable shield	:	0,05 mm polyester-backed aluminium tape and 0,05 mm polyester separation tape, 100% coverage and 35% overlap
Cable drain wire	:	0,56 mm <sup>2</sup> (20 AWG), 7 strands, tinned copper
Inner jacket	:	90°C PVC
Armour	:	galvanized steel wire, 80% coverage
Outer jacket	:	90°C PVC
Group identification	:	each pair numbered
Limits of error	:	according to ANSI MC 96.1/IEC-584
Colour code	:	according to ANSI MC 96.1/IEC-584

### Calibration

Iron-constantan	JX
Chromel-alumel	KX
Copper-constantan	TX
Nisil-nicrosil	NX

### 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).

Nom. loop resistance (JX, KX and TX) : resp. 117, 193 and 97,8 Ohm/100 m

Capacitance (conductor to conductor) : 147 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

Flame test : Flame retardant as per IPCEA S61-402

## Ordering code:

Iron-constantan	:	UP/ALM/ALPWPTWK - □ - 20 - JX
Chromel-alumel	:	UP/ALM/ALPWPTWK - □ - 20 - KX
Copper-constantan	:	UP/ALM/ALPWPTWK - □ - 20 - TX
Nisil-nicrosil	:	UP/ALM/ALPWPTWK - □ - 20 - NX

□ Select number of pairs.

Other colour codes are available on request (ANSI MC 96.1)



**Thermo Electric**  
P.O. Box 179  
2740 AD Waddinxveen  
The Netherlands

Tel. : +31 (0)182 – 302 850  
Fax : +31 (0)182 – 302 777  
E-mail : info@thermo-electric.nl  
Internet: http://www.thermo-electric.nl

**F/3.251**  
**Rev.00 08/03**