

HELUTHERM® PLTC UL 13 / ANSI MC 96.1 PVC/PVC

Thermocouple extension cable



Technical data

- PVC thermocouple extension cable acc. to PLTC UL13 & ANSI MC 96.1 and ASTM D 1239
- **Temperature range**
flexing -5°C to +50°C
fixed installation -30°C to +105°C
- **Nominal voltage**
U_{AC} 300 V
- **Test voltage**
2000 V
- **Insulation resistance**
> 25 MΩ x km @ +20°C
- **Minimum bending radius**
fixed 8 x cable Ø

Cable structure

- Special solid alloys acc. to ANSI MC 96.1
- Type K/KX = NiCr(+) / Cu-Ni(-)
Core coding: red, yellow
- Type J/JX = Fe(+) / Cu-Ni(-)
Core coding: red, white
- Type T/TX = Cu(+) / Cu-Ni(-)
Core coding: red, blue
- Type E/EX = NiCr(+) / Cu-Ni(-)
Core coding: violet, red
- Core insulation: PVC
- Core coding acc. to ANSI MC 96.1
- Overall screen: AL/PE tape over tinned copper drain wire
- Outer sheath: PVC
- Outer sheath colour acc. to ANSI MC 96.1

Properties

- Low Smoke Low Halogen (LSLH)
- Installation in classified areas acc. to NEC 725 PLTC section 501 Cl. 1 Div. 2 & Cl. 2 Div. 2

Tests

- Flame test on bunched wires acc. to UL 1685
- UV resistant acc. to UL 1581 section 1200
- Flame retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2
- Flame test on bunched wires acc. to IEC 60332-3-24 (Cat. C) & IEC 60332-3-22 (Cat. A)
- Acidity (ph value) and conductivity acc. to DIN EN 60754-2 / IEC 60754-2
- ISO 4589-2: 2017
Limiting Oxygen Index (LOI) (min. 30%)
- Smoke density acc. to DIN VDE 482-1034-1 / DIN EN 61034-1 / IEC 61034-1
- Low amount of halogen acid gas acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC60754-1 (max. 1.3%)
- Hydrocarbon resistant acc. to IRAM IAP

Application

Thermocouple extension cables are used for measurement of temperatures.

CE = Product complies to the Low-Voltage Directive 2014/35/EU.

Part no.	Description	Thermocouple type	Armour	No.pairs x cross-sec. AWG	Outer sheath colour	Outer Ø app. mm	Weight app. kg / km
17001401	PVC/PVC OS 300 Type KX	K	no	1 x 2 x 18	YE	5,9	58
17001391	PVC/PVC OS 300 Type JX	J	no	1 x 2 x 18	BK	5,9	58
17001392	PVC/PVC OS 300 Type EX	E	no	1 x 2 x 18	VT	5,9	58
17001393	PVC/PVC OS 300 Type TX	T	no	1 x 2 x 18	BU	5,9	58
17001402	PVC/PVC OSB 300 Type KX	K	galvanised steel wire braid	1 x 2 x 18	YE	8,8	179
17001403	PVC/PVC OSA 300 Type KX	K	galvanised steel wire armour	1 x 2 x 18	YE	9,0	211
17001601	PVC/PVC OS 300 Type KX	K	no	1 x 2 x 16	YE	6,4	73
17001604	PVC/PVC OS 300 Type JX	J	no	1 x 2 x 16	BK	6,4	73
17001605	PVC/PVC OS 300 Type EX	E	no	1 x 2 x 16	VT	6,4	73
17001606	PVC/PVC OS 300 Type TX	T	no	1 x 2 x 16	BU	6,4	73
17001602	PVC/PVC OSB 300 Type KX	K	galvanised steel wire braid	1 x 2 x 16	YE	9,3	202
17001603	PVC/PVC OSA 300 Type KX	K	galvanised steel wire armour	1 x 2 x 16	YE	13,7	375

Dimensions and specifications may be changed without prior notice.