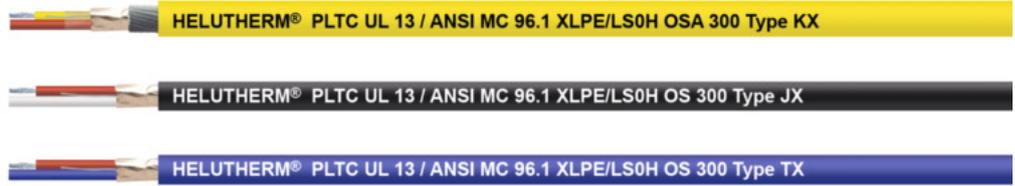


# HELUTHERM® PLTC UL 13 / ANSI MC 96.1 XLPE/LSOH

Thermocouple extension cable, halogen-free



## Technical data

- LSOH 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 +90°C
- **Nominal voltage**  
 $U_{AC}$  300 V
- **Test voltage**  
2000 V
- **Insulation resistance**  
> 5000 MOhm 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: XLPE
- Core coding acc. to ANSI MC 96.1
- Overall screen: AL/PE tape over tinned copper drain wire
- Outer sheath: LSOH
- Outer sheath colour acc. to ANSI MC 96.1

## Properties

- Low Smoke Zero Halogen (LSOH)
- 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 and sunlight 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. 37%)
- Low smoke conformity acc. to DIN VDE 0482-1034-1 / DIN EN 61034-1 / IEC 61034-1
- Halogen-free acc. to DIN VDE 0482-754-1 / DIN EN 60754-1 / IEC 60754-1 (max. 0.5%)
- 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
17001400	XLPE/LSOH OS 300 Type KX	K	no	1 x 2 x 18	YE	5,8	59
17001607	XLPE/LSOH OS 300 Type JX	J	no	1 x 2 x 18	BK	5,8	59
17001608	XLPE/LSOH OS 300 Type EX	E	no	1 x 2 x 18	VT	5,8	59
17001609	XLPE/LSOH OS 300 Type TX	T	no	1 x 2 x 18	BU	5,8	59
17001610	XLPE/LSOH OSB 300 Type KX	K	galvanised steel wire braid	1 x 2 x 18	YE	8,9	165
17001611	XLPE/LSOH OSA 300 Type KX	K	galvanised steel wire armour	1 x 2 x 16	YE	9,5	199
17001600	XLPE/LSOH OS 300 Type KX	K	no	1 x 2 x 16	YE	6,3	77
17001612	XLPE/LSOH OS 300 Type JX	J	no	1 x 2 x 16	BK	6,3	77
17001613	XLPE/LSOH OS 300 Type EX	E	no	1 x 2 x 16	VT	6,3	77
17001614	XLPE/LSOH OS 300 Type TX	T	no	1 x 2 x 16	BU	6,3	77
17001615	XLPE/LSOH OSB 300 Type KX	K	galvanised steel wire braid	1 x 2 x 16	YE	9,4	185
17001616	XLPE/LSOH OSA 300 Type KX	K	galvanised steel wire armour	1 x 2 x 16	YE	13,8	349

Dimensions and specifications may be changed without prior notice.