

# HELUDATA® PLTC UL13 XLPE/LSOH IOS 300

Instrumentation cable, XLPE/IS/OS/LSOH



HELUDATA® PLTC UL13 XLPE/LSOH IOS 300 CE

## Technical data

- Instrumentation cable acc. to UL 13 PLTC
- in compliance with NEC code, sec. 725 PLTC
- acc. to ASTM 1239
- in compliance with NEC article 336, for use in hazardous classified locations class I & II division 2 acc. to NEC 501
- **Temperature range**  
flexing -5°C to +50°C  
fixed installation -30°C to +75°C  
permissible operating temperature of the conductor -30°C to +90°C
- **Nominal voltage**  
U 300 V
- **Test voltage**  
core/core 2000 V  
core/screen 2000 V
- **Minimum bending radius**  
8x outer Ø

## Cable structure

- Class B stranded annealed bare copper per ASTM B3 and B8
- Core insulation: XLPE
- Cores stranded in pairs or triads
- Cores twisted together in cable elements in optimal lay length
- Core identification  
pairs: white, black  
triads: white, black, red  
white cores with continuous black numbering
- Cable elements are stranded in optimal lay length
- Individual screen: AL/PE foil over tinned copper drain wire
- Overall screen: AL/PE tape over tinned copper drain wire
- Outer sheath: LSOH
- Outer sheath colour: black or blue
- With meter marking

## Properties

- Low Smoke Zero Halogen (LSOH)
- Resistant to hydrocarbons
- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Cable elements are produced of non-hygroscopic materials

## Tests

- Flame test on bunched wires acc. to UL 1685 FT4 / IEEE 1202
- 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 and UL VW-1 / UL 1581 sec. 1060 (FT1)
- Flame test on bunched wires acc. to DIN VDE 0482-332-3-22 / DIN EN 60332-3-22 / IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases acc. to DIN VDE 0482-754-2 / DIN EN 60754-2 / IEC 60754-2
- Limiting Oxygen Index (LOI) acc. to ISO 4589-2: min. 30%
- Smoke density 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%)
- Oil resistant acc. to ICEA S-73-532 / NEMA WC 57
- Installation in hazardous areas acc. to IEC 60079-14 ANNEX E, but only using the correct ATEX conform accessories.

## Note

- Alternative denomination:  
**RE-2X(St)H PimF**
- Not suitable for direct burial
- We also offer cable glands  
**HELUTOP® HT-MS-EX-d**

## Application

For the transmission of digital and analog signals in harsh environments like oil, gas and petrochemical industries. The cables are suitable for fixed installation in dry and damp locations, open spaces and in underground networks.

CE = Product conforms with Low-Voltage Directive 2014/35/EU.

Continuation ►

# HELUDATA® PLTC UL13 XLPE/LS0H IOS 300

Instrumentation cable, XLPE/IS/OS/LS0H

Part no. Sheath colour BK	Sheath colour BU	No.pairs x cross-sec. AWG-no.	Outer Ø app. mm	Copper weight kg / km	Weight app. kg / km
11018570	11018525	2 x 2 x 18	9,0	37,1	106,0
11018571	11018526	3 x 2 x 18	9,5	54,8	136,0
11018572	11018527	4 x 2 x 18	14,2	72,5	298,0
11018573	11018528	5 x 2 x 18	15,1	90,3	341,0
11018574	11018529	6 x 2 x 18	16,1	108,0	386,0
11018575	11018530	7 x 2 x 18	16,1	125,7	414,0
11018576	11018531	8 x 2 x 18	17,4	143,4	462,0
11018577	11018532	10 x 2 x 18	19,5	178,8	552,0
11018578	11018533	12 x 2 x 18	20,1	214,2	616,0
11018579	11018534	16 x 2 x 18	21,9	285,1	757,0
11018580	11018535	19 x 2 x 18	22,9	338,2	857,0
11018581	11018976	20 x 2 x 18	24,2	355,9	905,0
11018582	11018536	24 x 2 x 18	26,8	426,8	1089,0
11018583	11018537	36 x 2 x 18	30,2	639,3	1482,0
11018584	11018538	2 x 3 x 18	13,7	53,1	257,0
11018585	11018539	3 x 3 x 18	14,3	78,9	307,0
11018586	11018540	4 x 3 x 18	15,3	104,6	362,0
11018395	11018541	6 x 3 x 18	17,6	156,0	479,0
11018396	11018542	8 x 3 x 18	19,0	207,5	580,0
11018397	11018543	12 x 3 x 18	22,0	310,3	787,0
11018398	11018544	16 x 3 x 18	24,1	413,2	977,0
11018500	11018545	2 x 2 x 16	13,8	55,9	259,0
11018501	11018546	3 x 2 x 16	14,4	83,0	307,0
11018502	11018547	4 x 2 x 16	15,4	110,0	363,0
11018503	11018548	5 x 2 x 16	16,5	137,1	420,0
11018504	11018549	6 x 2 x 16	17,6	164,2	479,0
11018505	11018550	7 x 2 x 16	17,6	191,3	517,0
11018506	11018551	8 x 2 x 16	19,1	218,4	580,0
11018507	11018552	10 x 2 x 16	21,5	272,6	697,0
11018508	11018553	12 x 2 x 16	22,1	326,7	787,0
11018509	11018554	16 x 2 x 16	24,2	435,1	977,0
11018510	11018555	19 x 2 x 16	25,9	516,3	1150,0
11018511	11018556	24 x 2 x 16	29,8	651,8	1414,0
11018512	11018557	36 x 2 x 16	33,6	976,8	1950,0
11018513	11018558	2 x 3 x 16	14,8	81,3	312,0
11018514	11018559	3 x 3 x 16	15,5	121,0	380,0
11018515	11018560	4 x 3 x 16	16,7	160,8	455,0
11018516	11018561	6 x 3 x 16	19,3	240,4	612,0
11018517	11018562	8 x 3 x 16	20,9	319,9	752,0
11018518	11018563	12 x 3 x 16	24,4	479,1	1037,0
11018519	11018564	16 x 3 x 16	27,3	638,2	1343,0
11018520	11018565	2 x 2 x 14	15,0	86,4	317,0
11018521	11018566	3 x 2 x 14	15,7	128,8	386,0
11018522	11018567	5 x 2 x 14	18,2	213,5	542,0
11018523	11018568	2 x 3 x 14	16,3	127,1	391,0
11018524	11018569	3 x 3 x 14	17,1	189,7	487,0

Dimensions and specifications may be changed without prior notice.