

# HELUDATA® PLTC UL13 XLPE/LS0H IOS 300

Instrumentation cable, XLPE/IS/OS/LS0H



HELUDATA® PLTC UL13 XLPE/LS0H IOS 300 CE

## Technical data

- Instrumentation cable acc. to
  - UL 13 PLTC
  - NEC Art. 725 (PLTC)
  - NEC Art. 727 (ITC)
  - ASTM D1239
- **Temperature range**
  - flexing -5°C to +50°C
  - fixed -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

## Approvals

- for class 1 and 2 Div. 2 explosive environments acc. to NEC Art. 501

## Cable structure

- Copper wire bare, finely stranded acc. to ASTM B3
- Core insulation: XLPE
- Core identification:
  - pairs: wh, bk
  - triads: wh, bk, rd
  - white cores with consecutive labeling in black digits
- Cores stranded in pairs / triads, cores stranded in cable elements with optimal lay lengths
- Individual screen: pairs / triads, indiv. screened with AL/PET tape over tinned copper stranded drain wire
- Cable elements are stranded with optimal lay length
- Overall screen: AL/PET tape over tinned copper stranded drain wire
- Outer sheath: LS0H
- Outer sheath colour: black or blue
- Length marking: in metres

## Properties

- **Low Smoke Zero Halogen (LS0H)**
- 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-retardant acc. to
  - DIN VDE 0482-332-1-2 /
  - DIN EN 60332-1-2 / IEC 60332-1-2 /
  - UL VW-1 / UL 1581 sec. 1060 (FT1)
- bundle fire test acc. to
  - DIN VDE 0482-332-3-22 /
  - DIN EN 60332-3-22 / IEC 60332-3-22
  - (Cat. A, 40 min.)
- bundle fire test acc. to
  - UL 1685 FT4 / IEEE 1202
- halogen-free acc. to
  - DIN VDE 0482-754-1 / DIN EN 60754-1 /
  - IEC 60754-1 (max. 0.5 %)
- 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. 37 %)
- smoke density acc. to
  - DIN VDE 0482-1034-1 /
  - DIN EN 61034-1 / IEC 61034-1
- oil-resistant acc. to
  - ICEA S-73-532 / NEMA WC 57 / IRAM IAP
- sunlight resistant /
- UV-resistant acc. to UL 1581 sec. 1200
- Installation in explosion-endangered areas acc. to IEC 60079-14 Annex E, but only with 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 ►

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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.