

# HELUDATA® PLTC UL13 XLPE/LS0H IOSA 300

Instrumentation cable, XLPE/IS/OS/LS0H/SWA/LS0H



HELUDATA® PLTC UL13 XLPE/LS0H IOSA 300 CE

## Technical data

- Instrumentation cable acc. to UL 13 PLTC
- in compliance with NEC code, sec. 725 PLTC
- acc. to ASTM D1239
- 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**  
14x 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 tape over tinned copper drain wire
- Overall screen: AL/PE tape over tinned copper drain wire
- Inner sheath: LS0H
- Inner sheath colour: like outer sheath
- Armouring: galvanized steel wire
- Outer sheath: LS0H
- Outer sheath colour: black or blue
- With meter marking

## 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 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)HRH PimF**
- Suitable for direct burial
- We also offer cable glands  
**HELUTOP® HT-MS-EX-d / e4**

## 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 IOSA 300

Instrumentation cable, XLPE/IS/OS/LS0H/SWA/LS0H

| Part no.         | No.pairs x cross-sec. | Outer Ø | Copper weight | Weight       |
|------------------|-----------------------|---------|---------------|--------------|
| Sheath colour BK | AWG-no.               | app. mm | kg / km       | app. kg / km |
| 11018870         | 2 x 2 x 18            | 16,6    | 37,1          | 481,0        |
| 11018871         | 3 x 2 x 18            | 17,1    | 54,8          | 528,0        |
| 11018872         | 4 x 2 x 18            | 18,5    | 72,5          | 619,0        |
| 11018873         | 5 x 2 x 18            | 19,5    | 90,3          | 684,0        |
| 11018874         | 6 x 2 x 18            | 20,5    | 108,0         | 752,0        |
| 11018875         | 7 x 2 x 18            | 20,5    | 125,7         | 780,0        |
| 11018876         | 8 x 2 x 18            | 22,4    | 143,4         | 966,0        |
| 11018877         | 10 x 2 x 18           | 25,6    | 178,8         | 1196,0       |
| 11018878         | 12 x 2 x 18           | 26,1    | 214,2         | 1277,0       |
| 11018879         | 16 x 2 x 18           | 28,0    | 285,1         | 1475,0       |
| 11018880         | 19 x 2 x 18           | 29,7    | 338,2         | 1759,0       |
| 11018881         | 24 x 2 x 18           | 33,6    | 426,8         | 2138,0       |
| 11018882         | 36 x 2 x 18           | 38,3    | 639,3         | 2939,0       |
| 11018883         | 2 x 3 x 18            | 18,1    | 53,1          | 569,0        |
| 11018884         | 3 x 3 x 18            | 18,7    | 78,9          | 631,0        |
| 11018885         | 4 x 3 x 18            | 19,7    | 104,6         | 710,0        |
| 11018886         | 6 x 3 x 18            | 22,6    | 156,0         | 988,0        |
| 11018887         | 8 x 3 x 18            | 24,5    | 207,5         | 1170,0       |
| 11018888         | 12 x 3 x 18           | 28,8    | 310,3         | 1656,0       |
| 11018889         | 16 x 3 x 18           | 30,9    | 413,2         | 1925,0       |
| 11018850         | 2 x 2 x 16            | 18,1    | 55,9          | 570,0        |
| 11018851         | 3 x 2 x 16            | 18,7    | 83,0          | 633,0        |
| 11018852         | 4 x 2 x 16            | 19,7    | 110,0         | 711,0        |
| 11018853         | 5 x 2 x 16            | 20,8    | 137,1         | 793,0        |
| 11018854         | 6 x 2 x 16            | 22,7    | 164,2         | 989,0        |
| 11018855         | 7 x 2 x 16            | 22,7    | 191,3         | 1029,0       |
| 11018856         | 8 x 2 x 16            | 24,6    | 218,4         | 1173,0       |
| 11018857         | 10 x 2 x 16           | 27,6    | 272,6         | 1404,0       |
| 11018858         | 12 x 2 x 16           | 28,9    | 326,7         | 1659,0       |
| 11018859         | 16 x 2 x 16           | 31,0    | 435,1         | 1927,0       |
| 11018860         | 19 x 2 x 16           | 32,7    | 516,3         | 2164,0       |
| 11018861         | 24 x 2 x 16           | 37,8    | 651,8         | 2852,0       |
| 11018862         | 36 x 2 x 16           | 41,7    | 976,8         | 3567,0       |
| 11018863         | 2 x 3 x 16            | 19,2    | 81,3          | 649,0        |
| 11018864         | 3 x 3 x 16            | 19,9    | 121,0         | 732,0        |
| 11018865         | 4 x 3 x 16            | 21,0    | 160,8         | 834,0        |
| 11018866         | 6 x 3 x 16            | 24,8    | 240,4         | 1211,0       |
| 11018867         | 8 x 3 x 16            | 27,0    | 319,9         | 1440,0       |
| 11018868         | 12 x 3 x 16           | 31,1    | 479,1         | 1994,0       |
| 11018869         | 16 x 3 x 16           | 34,0    | 638,2         | 2409,0       |
| 11018589         | 2 x 2 x 14            | 19,4    | 86,4          | 658,0        |
| 11018590         | 3 x 2 x 14            | 20,1    | 128,8         | 743,0        |
| 11018591         | 5 x 2 x 14            | 23,2    | 213,5         | 1069,0       |
| 11018592         | 2 x 3 x 14            | 20,6    | 127,1         | 760,0        |
| 11018593         | 3 x 3 x 14            | 21,4    | 189,7         | 875,0        |

Dimensions and specifications may be changed without prior notice.