

HELUDATA® PLTC UL13 XLPE/LSOH OS 300

Instrumentation cable, XLPE/OS/LSOH



HELUDATA® PLTC UL13 XLPE/LSOH OS 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
- 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
- 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 OS 300

Instrumentation cable, XLPE/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
11018400		11018451	1 x 2 x 18	6,2	17,7	56,0
11018401		11018452	2 x 2 x 18	8,7	33,7	95,0
11018402		11018453	3 x 2 x 18	9,2	49,7	120,0
11018403		11018454	4 x 2 x 18	13,9	65,8	274,0
11018404		11018455	5 x 2 x 18	14,8	81,8	312,0
11018405		11018456	6 x 2 x 18	15,8	97,8	351,0
11018406		11018457	7 x 2 x 18	15,8	113,8	374,0
11018407		11018458	8 x 2 x 18	17,0	129,8	417,0
11018408		11018459	10 x 2 x 18	19,0	161,9	496,0
11018409		11018460	12 x 2 x 18	19,5	193,9	550,0
11018410		11018461	16 x 2 x 18	21,3	258,0	671,0
11018411		11018462	19 x 2 x 18	22,2	306,0	756,0
11018412		11018463	24 x 2 x 18	26,0	386,1	960,0
11018413		11018464	36 x 2 x 18	29,3	578,3	1294,0
11018414		11018465	1 x 3 x 18	6,5	25,7	69,0
11018415		11018466	2 x 3 x 18	9,6	49,7	123,0
11018416		11018467	3 x 3 x 18	14,0	73,8	288,0
11018417		11018468	4 x 3 x 18	15,0	97,8	338,0
11018418		11018469	6 x 3 x 18	17,2	145,8	442,0
11018419		11018498	8 x 3 x 18	18,5	193,9	535,0
11018420		11018499	12 x 3 x 18	21,5	290,0	719,0
11018421		11015977	16 x 3 x 18	23,5	386,1	890,0
11018422		11018470	1 x 2 x 16	6,8	27,1	72,0
11018423		11018471	2 x 2 x 16	13,5	52,5	244,0
11018424		11018472	3 x 2 x 16	14,1	77,9	288,0
11018425		11018473	4 x 2 x 16	15,1	103,3	339,0
11018426		11018474	5 x 2 x 16	16,1	128,6	391,0
11018427		11018475	6 x 2 x 16	17,2	154,0	443,0
11018428		11018476	7 x 2 x 16	17,2	179,4	477,0
11018429		11018477	8 x 2 x 16	18,6	204,8	535,0
11018430		11018478	10 x 2 x 16	21,0	255,6	642,0
11018431		11018479	12 x 2 x 16	21,6	306,4	721,0
11018432		11018480	16 x 2 x 16	23,6	407,9	890,0
11018433		11018481	19 x 2 x 16	24,7	484,1	1012,0
11018434		11018482	24 x 2 x 16	29,0	611,0	1286,0
11018435		11018483	36 x 2 x 16	32,7	915,7	1763,0
11018436		11018484	1 x 3 x 16	7,1	39,8	91,0
11018437		11018485	2 x 3 x 16	14,6	77,9	297,0
11018438		11018486	3 x 3 x 16	15,2	116,0	359,0
11018439		11018487	4 x 3 x 16	16,3	154,0	429,0
11018440		11018488	6 x 3 x 16	18,8	230,2	572,0
11018441		11018489	8 x 3 x 16	20,4	306,4	701,0
11018442		11018490	12 x 3 x 16	23,8	458,7	963,0
11018443		11018491	16 x 3 x 16	26,6	611,0	1244,0
11018444		11018492	1 x 2 x 14	7,6	42,4	95,0
11018445		11018493	2 x 2 x 14	14,8	83,0	303,0
11018446		11018494	3 x 2 x 14	15,4	123,7	365,0
11018447		11018495	5 x 2 x 14	17,8	205,0	509,0
11018448		11018399	1 x 3 x 14	8,0	62,7	123,0
11018449		11018496	2 x 3 x 14	16,0	123,7	375,0
11018450		11018497	3 x 3 x 14	16,8	184,7	466,0

Dimensions and specifications may be changed without prior notice.