

HELUDATA® PLTC UL13 XLPE/LS0H IOSA 300

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



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**
14x 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
- Inner sheath: PVC
- Inner sheath colour: like outer sheath
- Armouring: single layer of galvanised round steel wires (GSWA)
- 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)HRH PiMF
- suitable for direct burial
- we also offer cable glands:
HELUTOP® HT-MS-EX-d / e4
PEPPERS UL-C

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
11018870		11018820	2 x 2 x 18	16,6	37,1	481,0
11018871		11018821	3 x 2 x 18	17,1	54,8	528,0
11018872		11018822	4 x 2 x 18	18,5	72,5	619,0
11018873		11018823	5 x 2 x 18	19,5	90,3	684,0
11018874		11018824	6 x 2 x 18	20,5	108,0	752,0
11018875		11018825	7 x 2 x 18	20,5	125,7	780,0
11018876		11018826	8 x 2 x 18	22,4	143,4	966,0
11018877		11018827	10 x 2 x 18	25,6	178,8	1196,0
11018878		11018828	12 x 2 x 18	26,1	214,2	1277,0
11018879		11018829	16 x 2 x 18	28,0	285,1	1475,0
11018880		11018830	19 x 2 x 18	29,7	338,2	1759,0
11018881		11018831	24 x 2 x 18	33,6	426,8	2138,0
11018882		11018832	36 x 2 x 18	38,3	639,3	2939,0
11018883		11018833	2 x 3 x 18	18,1	53,1	569,0
11018884		11018834	3 x 3 x 18	18,7	78,9	631,0
11018885		11018835	4 x 3 x 18	19,7	104,6	710,0
11018886		11018836	6 x 3 x 18	22,6	156,0	988,0
11018887		11018837	8 x 3 x 18	24,5	207,5	1170,0
11018888		11018838	12 x 3 x 18	28,8	310,3	1656,0
11018889		11018839	16 x 3 x 18	30,9	413,2	1925,0
11018850		11018840	2 x 2 x 16	18,1	55,9	570,0
11018851		11018841	3 x 2 x 16	18,7	83,0	633,0
11018852		11018842	4 x 2 x 16	19,7	110,0	711,0
11018853		11018843	5 x 2 x 16	20,8	137,1	793,0
11018854		11018844	6 x 2 x 16	22,7	164,2	989,0
11018855		11018845	7 x 2 x 16	22,7	191,3	1029,0
11018856		11018846	8 x 2 x 16	24,6	218,4	1173,0
11018857		11018847	10 x 2 x 16	27,6	272,6	1404,0
11018858		11018848	12 x 2 x 16	28,9	326,7	1659,0
11018859		11018849	16 x 2 x 16	31,0	435,1	1927,0
11018860		11018890	19 x 2 x 16	32,7	516,3	2164,0
11018861		11018891	24 x 2 x 16	37,8	651,8	2852,0
11018862		11018892	36 x 2 x 16	41,7	976,8	3567,0
11018863		11018893	2 x 3 x 16	19,2	81,3	649,0
11018864		11018894	3 x 3 x 16	19,9	121,0	732,0
11018865		11018895	4 x 3 x 16	21,0	160,8	834,0
11018866		11018896	6 x 3 x 16	24,8	240,4	1211,0
11018867		11018897	8 x 3 x 16	27,0	319,9	1440,0
11018868		11018898	12 x 3 x 16	31,1	479,1	1994,0
11018869		11018899	16 x 3 x 16	34,0	638,2	2409,0
11018589		11018594	2 x 2 x 14	19,4	86,4	658,0
11018590		11018595	3 x 2 x 14	20,1	128,8	743,0
11018591		11018596	5 x 2 x 14	23,2	213,5	1069,0
11018592		11018597	2 x 3 x 14	20,6	127,1	760,0
11018593		11018598	3 x 3 x 14	21,4	189,7	875,0

Dimensions and specifications may be changed without prior notice.