

HELUDATA® PLTC UL13 XLPE/LS0H OSA 300

Instrumentation cable, XLPE/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
- 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-Y(St)YRY 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
11018600		11018651	1 x 2 x 18	13,5	17,7	330,0
11018601		11018652	2 x 2 x 18	16,3	33,7	460,0
11018602		11018653	3 x 2 x 18	16,8	49,7	503,0
11018603		11018654	4 x 2 x 18	18,2	65,8	587,0
11018604		11018655	5 x 2 x 18	19,1	81,8	647,0
11018605		11018656	6 x 2 x 18	20,1	97,8	707,0
11018606		11018657	7 x 2 x 18	20,1	113,8	730,0
11018607		11018658	8 x 2 x 18	21,3	129,8	800,0
11018608		11018659	10 x 2 x 18	24,5	161,9	1087,0
11018609		11018660	12 x 2 x 18	25,6	193,9	1192,0
11018610		11018661	16 x 2 x 18	27,3	258,0	1368,0
11018611		11018662	19 x 2 x 18	29,0	306,0	1631,0
11018612		11018663	24 x 2 x 18	32,7	386,1	1978,0
11018613		11018664	36 x 2 x 18	37,3	578,3	2707,0
11018614		11018665	1 x 3 x 18	13,8	25,7	352,0
11018615		11018666	2 x 3 x 18	17,3	49,7	518,0
11018616		11018667	3 x 3 x 18	18,3	73,8	605,0
11018617		11018668	4 x 3 x 18	19,3	97,8	677,0
11018618		11018669	6 x 3 x 18	21,5	145,8	831,0
11018619		11018670	8 x 3 x 18	23,5	193,9	1069,0
11018620		11018587	12 x 3 x 18	27,5	290,0	1423,0
11018621		11018588	16 x 3 x 18	30,2	386,1	1812,0
11018900		11018622	1 x 2 x 16	14,1	27,1	363,0
11018901		11018623	2 x 2 x 16	17,8	52,5	550,0
11018902		11018624	3 x 2 x 16	18,4	77,9	606,0
11018903		11018625	4 x 2 x 16	19,4	103,3	679,0
11018904		11018626	5 x 2 x 16	20,4	128,6	755,0
11018905		11018627	6 x 2 x 16	21,5	154,0	833,0
11018906		11018628	7 x 2 x 16	21,5	179,4	867,0
11018907		11018629	8 x 2 x 16	24,1	204,8	1113,0
11018908		11018630	10 x 2 x 16	27,0	255,6	1330,0
11018909		11018631	12 x 2 x 16	27,6	306,4	1427,0
11018910		11018632	16 x 2 x 16	30,3	407,9	1816,0
11018911		11018633	19 x 2 x 16	31,4	484,1	1980,0
11018977		11018634	20 x 2 x 16	33,3	509,5	2146,0
11018912		11018635	24 x 2 x 16	37,0	611,0	2685,0
11018913		11018636	36 x 2 x 16	40,7	915,7	3334,0
11018914		11018637	1 x 3 x 16	14,5	39,8	394,0
11018915		11018638	2 x 3 x 16	18,9	77,9	626,0
11018916		11018639	3 x 3 x 16	19,5	116,0	703,0
11018917		11018640	4 x 3 x 16	20,7	154,0	799,0
11018918		11018641	6 x 3 x 16	24,4	230,2	1157,0
11018919		11018642	8 x 3 x 16	26,5	306,4	1372,0
11018920		11018643	12 x 3 x 16	30,5	458,7	1896,0
11018599		11018961	16 x 3 x 16	33,4	611,0	2284,0
11018644		11018962	1 x 2 x 14	15,2	42,4	424,0
11018645		11018963	2 x 2 x 14	19,1	83,0	636,0
11018646		11018964	3 x 2 x 14	19,8	123,7	715,0
11018647		11018965	5 x 2 x 14	22,8	205,0	1025,0
11018648		11018966	1 x 3 x 14	15,6	62,7	465,0
11018649		11018967	2 x 3 x 14	20,3	123,7	737,0
11018650		11018968	3 x 3 x 14	21,1	184,7	846,0

Dimensions and specifications may be changed without prior notice.