

HELUDATA® PLTC UL13 PVC/PVC OSA 300

Instrumentation cable, PVC/OS/PVC/SWA/PVC



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 +80°C
- **Permissible operating temperature of the conductor** -30°C to +105°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: heat resistant PVC
- 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: PVC
- Outer sheath colour: black or blue
- Length marking: in metres

Properties

- **Low Smoke Low Halogen (LSLH)**
- 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
- low amount of halogen acid gas acc. to
 - DIN VDE 0482-754-1 / DIN EN 60754-1 /
 - IEC 60754-1 (max. 1.3 %)
- 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
- 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**
- 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
11010660		11014264	1 x 2 x 18	13,5	17,7	347,0
11010661		11014265	2 x 2 x 18	15,9	33,7	470,0
11010662		11014266	3 x 2 x 18	16,4	49,7	514,0
11010663		11014267	4 x 2 x 18	17,2	65,8	571,0
11010664		11014268	5 x 2 x 18	18,6	81,8	662,0
11010665		11014269	6 x 2 x 18	19,5	97,8	726,0
11010666		11014270	7 x 2 x 18	19,5	113,8	751,0
11010667		11014271	8 x 2 x 18	20,6	129,8	823,0
11010668		11014272	10 x 2 x 18	23,2	161,9	1068,0
11010674		11014273	12 x 2 x 18	24,2	193,9	1185,0
11010675		11014274	16 x 2 x 18	26,4	258,0	1407,0
11010790		11014275	19 x 2 x 18	27,3	306,0	1529,0
11010791		11014276	24 x 2 x 18	31,0	386,1	1970,0
11010792		11014277	36 x 2 x 18	35,1	578,3	2562,0
11010793		11014283	1 x 3 x 18	13,8	25,7	372,0
11010794		11014284	2 x 3 x 18	17,3	49,7	548,0
11010795		11014285	3 x 3 x 18	18,3	73,8	640,0
11010796		11013506	4 x 3 x 18	19,3	97,8	718,0
11010797		11013507	6 x 3 x 18	21,5	145,8	883,0
11010798		11013508	8 x 3 x 18	23,5	193,9	1134,0
11010799		11013509	12 x 3 x 18	27,5	290,0	1514,0
11014125		11013510	16 x 3 x 18	30,2	386,1	1923,0
11010800		11013511	1 x 2 x 16	14,1	27,1	382,0
11010801		11013512	2 x 2 x 16	16,9	52,5	529,0
11010802		11013513	3 x 2 x 16	17,9	77,9	619,0
11010803		11013514	4 x 2 x 16	18,8	103,3	694,0
11010804		11013515	5 x 2 x 16	19,8	128,7	772,0
11010810		11013516	6 x 2 x 16	20,9	154,0	854,0
11010811		11013517	7 x 2 x 16	20,9	179,4	891,0
11014110		11013518	8 x 2 x 16	22,9	204,8	1095,0
11014111		11013519	10 x 2 x 16	26,1	255,6	1357,0
11014112		11013520	12 x 2 x 16	26,7	306,4	1461,0
11014113		11013521	16 x 2 x 16	29,3	407,9	1855,0
11014114		11013522	19 x 2 x 16	30,3	484,1	2026,0
11014115		11013528	24 x 2 x 16	34,8	611,0	2523,0
11014116		11013529	36 x 2 x 16	39,1	915,7	3417,0
11014117		11013530	1 x 3 x 16	14,5	39,8	415,0
11014118		11013657	2 x 3 x 16	18,9	77,9	660,0
11014119		11013658	3 x 3 x 16	19,5	116,0	743,0
11014120		11013659	4 x 3 x 16	20,7	154,0	845,0
11014121		11013660	6 x 3 x 16	24,4	230,2	1221,0
11014122		11013661	8 x 3 x 16	26,5	306,4	1451,0
11014123		11013662	12 x 3 x 16	30,5	458,7	2001,0
11014124		11013663	16 x 3 x 16	33,4	611,0	2416,0
11014126		11018969	1 x 2 x 14	15,6	42,4	464,0
11014132		11013664	2 x 2 x 14	19,2	83,0	679,0
11014133		11013665	3 x 2 x 14	19,9	123,7	766,0
11014134		11013666	5 x 2 x 14	23,0	205,0	1098,0
11014261		11013667	1 x 3 x 14	16,0	62,7	512,0
11014262		11013668	2 x 3 x 14	21,1	123,7	816,0
11014263		11013669	3 x 3 x 14	22,6	184,7	1052,0

Dimensions and specifications may be changed without prior notice.