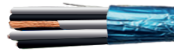


HELUDATA® PLTC UL13 PVC/PVC OS 300

Instrumentation cable, PVC/OS/PVC



HELUDATA® PLTC UL13 PVC/PVC OS 300 CE

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**
 - 8x 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
- 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)Y**
- 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 ►

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Instrumentation cable, PVC/OS/PVC

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
11014702		11015266	1 x 2 x 18	6,2	17,7	62,0
11014703		11015267	2 x 2 x 18	8,3	33,7	100,0
11014704		11015382	3 x 2 x 18	8,8	49,8	129,0
11014705		11015383	4 x 2 x 18	9,6	65,8	160,0
11014706		11015384	5 x 2 x 18	14,3	81,8	330,0
11014707		11015385	6 x 2 x 18	15,2	97,8	372,0
11014708		11015386	7 x 2 x 18	15,2	113,8	397,0
11014709		11015387	8 x 2 x 18	16,3	129,8	443,0
11014710		11015388	10 x 2 x 18	18,2	161,9	528,0
11014711		11015389	12 x 2 x 18	18,7	194,0	587,0
11014712		11015390	16 x 2 x 18	20,3	258,0	719,0
11014713		11015391	19 x 2 x 18	21,3	306,0	813,0
11018972		11018973	20 x 2 x 18	22,4	322,0	858,0
11014714		11015392	24 x 2 x 18	24,3	386,1	994,0
11014715		11015393	36 x 2 x 18	27,9	578,3	1397,0
11014716		11015394	1 x 3 x 18	6,5	25,7	76,0
11014722		11015395	2 x 3 x 18	9,6	49,7	134,0
11014723		11015396	3 x 3 x 18	14,0	73,8	314,0
11014838		11015402	4 x 3 x 18	15,0	97,8	369,0
11014839		11015403	6 x 3 x 18	17,2	145,8	484,0
11011233		11017141	8 x 3 x 18	18,5	194,0	585,0
11011234		11017142	12 x 3 x 18	21,5	290,0	790,0
11014840		11017143	16 x 3 x 18	23,5	386,1	979,0
11014841		11017000	1 x 2 x 16	6,8	27,1	77,0
11014842		11017001	2 x 2 x 16	9,2	52,5	130,0
11014843		11017002	3 x 2 x 16	13,6	77,9	303,0
11014844		11017003	4 x 2 x 16	14,5	103,3	356,0
11014845		11017004	5 x 2 x 16	15,5	128,6	411,0
11014846		11017005	6 x 2 x 16	16,6	154,0	468,0
11014847		11017006	7 x 2 x 16	16,6	179,4	505,0
11014848		11017007	8 x 2 x 16	17,9	204,8	565,0
11014849		11017008	10 x 2 x 16	20,1	255,6	679,0
11014850		11017009	12 x 2 x 16	20,6	306,4	763,0
11014851		11017010	16 x 2 x 16	22,5	407,9	947,0
11014852		11017011	19 x 2 x 16	23,6	484,1	1078,0
11018970		11018974	20 x 2 x 16	24,9	509,5	1139,0
11014858		11017012	24 x 2 x 16	27,6	611,1	1370,0
11014859		11017013	36 x 2 x 16	31,1	915,7	1885,0
11015246		11017014	1 x 3 x 16	7,1	39,8	98,0
11015247		11017020	2 x 3 x 16	14,6	77,9	320,0
11015248		11017021	3 x 3 x 16	15,2	116,0	388,0
11015249		11017136	4 x 3 x 16	16,3	154,0	464,0
11015250		11017137	6 x 3 x 16	18,8	230,2	620,0
11015251		11017138	8 x 3 x 16	20,4	306,4	760,0
11015252		11017139	12 x 3 x 16	23,8	458,7	1045,0
11015253		11017140	16 x 3 x 16	26,6	611,0	1351,0
11015254		11018971	1 x 2 x 14	8,0	42,4	107,0
11015255		11017144	2 x 2 x 14	14,9	83,0	332,0
11015256		11017145	3 x 2 x 14	15,5	123,7	404,0
11015257		11017146	5 x 2 x 14	17,9	205,0	565,0
11015258		11017147	1 x 3 x 14	8,4	62,7	140,0
11015259		11017148	2 x 3 x 14	16,8	123,7	426,0
11015260		11017149	3 x 3 x 14	17,6	184,7	530,0

Dimensions and specifications may be changed without prior notice.