

HELUDATA® PLTC UL13 PVC/PVC OS 300

Instrumentation cable, PVC/OS/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**
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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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.

