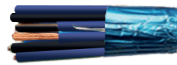


HELUDATA® EN-50288-7 FIRE RES OS 500

Instrumentation cable, fire resistant, halogen-free, XLPE/OS/LS0H



HELUDATA® EN-50288-7 FIRE RES OS 500 CE

Technical data

- Instrumentation cable acc. to DIN EN 50288-7
- **Temperature range**
flexing -10°C to +90°C
fixed installation -30°C to +90°C
- **Nominal voltage**
U_{AC} 500 V
- **Test voltage**
2000 V
- **Minimum bending radius**
fixed 7,5 x cable Ø
- **Insulation resistance**
> 5000 MΩxkm
- **Mutual capacitance**
cable element: < 100 pF/m
- **Inductance**
max. 1 mH/km
- **L/R (ratio)**
1,5 mm² < 40 µH/Ω
≥ 2,5 mm² < 60 µH/Ω

Cable structure

- Bare copper conductor, multiple wired acc. to DIN VDE 0295 cl. 2 / IEC 60228 cl. 2
- Fire barrier: MICA tape
- Core insulation: XLPE acc. to EN 50290-2-29
- Cores stranded in pairs, triads, quads or 5 cores
- Cores twisted together in cable elements in optimal lay length
- Core identification
pairs: BU, BK
triads: BU, BK, RD
quads: BU, BK, GY, RD
5 cores: BU, BN, BK, GY, RD
blue cores with continuous black numbering
- Cable elements are stranded in optimal lay length
- Overall screen: AL/PET tape over tinned copper stranded drain wire (7x0,3 mm)
- Outer sheath: LS0H compound acc. to EN 50290-2-27
- Outer sheath colour: orange (RAL 2004)
- With meter marking

Properties

- Low level of line attenuations and low mutual capacitances enable long transmission distances
- Cable elements have to be produced out of non-hygroscopic materials
- Resistant to hydrocarbons

Tests

- Fire resistant acc. to IEC 60331-21
- Flame retardant acc. to
DIN VDE 0482-332-1-2 /
DIN EN 60332-1-2 / IEC 60332-1-2
- Flame test on bunched wires acc. to
DIN VDE 0482-332-3-24 /
DIN EN 60332-3-24 / IEC 60332-3-24 (Cat. C)
- Flame test on bunched wires acc.
DIN VDE 0482-332-3-22 /
DIN EN 60332-3-22 / IEC 60332-3-22 (Cat. A)
- Corrosiveness of combustion gases acc. to
DIN VDE 0482-754-2 /
DIN EN 60754-2 / IEC 60754-2
- Smoke density acc. to
DIN VDE 0482-1034-1 /
DIN EN 61034-1 / IEC 61034-1
- Halogen-free acc. to
DIN VDE 0482-754-1 /
DIN EN 60754-1 / IEC 60754-1
- Oil resistant acc. to ICEA S-73-532 /
NEMA WC 57 / IEC 60811-404
- UV and sunlight resistant acc. to
ISO 4892-3 & UL 1581 sect. 1200
- Suitable for usage in explosive atmospheres acc. to
IEC 60079-14 sec. 16.2.2

Note

- The conductor is metrically constructed (mm²). The AWG designation is approximate and purely informative.
- Not suitable for direct burial
- Version suitable for installation on ships acc. to IEC 60092-350 on request

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. In the case of fire, the cable maintains circuit integrity for min. 180 minutes.

CE = Product complies to the Low-Voltage Directive 2014/35/EU.

Part no.	No.pairs x cross-sec. mm ²	AWG-No.	Outer Ø min. - max. mm	Copper weight kg / km	Weight app. kg / km
11016430	1 x 2 x 1,5	16	8,1 - 9,7	36,2	91
11016557	2 x 2 x 1,5	16	12,0 - 14,4	67,3	164
11016558	4 x 2 x 1,5	16	14,1 - 17,1	129,5	269
11016559	6 x 2 x 1,5	16	17,1 - 20,7	191,7	418
11016560	8 x 2 x 1,5	16	19,4 - 23,5	253,9	530
11016561	10 x 2 x 1,5	16	22,2 - 26,9	316,1	625
11016562	12 x 2 x 1,5	16	23,1 - 28,0	378,3	724
11016563	1 x 3 x 1,5	16	8,6 - 10,3	51,7	117
11016564	2 x 3 x 1,5	16	13,5 - 16,3	98,4	221

Part no.	No.pairs x cross-sec. mm ²	AWG-No.	Outer Ø min. - max. mm	Copper weight kg / km	Weight app. kg / km
11016565	4 x 3 x 1,5	16	15,9 - 19,3	177,6	374
11015812	1 x 2 x 2,5	14	9,0 - 11,2	56,9	121
11015813	1 x 3 x 2,5	14	9,6 - 11,9	82,8	159
11015814	1 x 4 x 2,5	14	10,6 - 13,3	108,8	200
11015815	5 x 2,5	14	11,6 - 14,4	124,8	254
11015816	1 x 3 x 4	12	11,3 - 13,8	120,0	221
11015817	1 x 4 x 4	12	12,4 - 15,1	158,4	284
11015818	5 x 4	12	13,7 - 16,7	196,8	365

Dimensions and specifications may be changed without prior notice.