

HELUTHERM® FR BS 7629

high temperature, halogen-free, fire resistant, LPCB certified



HELUKABEL HELUTHERM FR BS 7629

Technical data

- LSOH fire resistant cable acc. to BS7629-1:2008 BS EN50200 PH30/PH120 - BS6387 CWZ
- **Temperature range**
flexing -5°C to +50°C
fixed installation -30°C to +80°C
on conductor -40°C to +180°C
- **Nominal voltage**
U₀/U 300/500V
- **Test voltage**
2000V
- **Breakdown voltage**
4000V
- **Insulation resistance**
> 200 MOhm x km at +20°C
- **Minimum bending radius**
8 x cable Ø

Cable structure

- Bare copper conductor to BS EN 60228
1 to 2,5 qmm class 1
from 4 qmm class 2
- Core insulation of silicon rubber mix
- Core identification acc. to DIN VDE 0293-308
2 cores: BN & BU
3 cores: BN, BL & GY
4 cores: BU, BN, BL & GY
- Collective screening with aluminium / polyester tape. Metallic side facing down and in contact with the solid tinned copper drain wire
- LSOH outer sheath type LTS3
- Sheath colour red
- With meter marking

Properties

- LPCB certified to BS 7629-1:2008 BS 6387:2013 (CWZ) BS 5839-1:2013 (Clause 26.2d Standard) EN 50200:2006 (Class PH30/PH120) EN 50200:2006 Annex E (30 mins)
- Halogen-free
- Extremely fire resistant
- Screen earthing through drain wire positioning
- UV resistant
- Oil resistant

Tests

- Cat. "C" from BS 6387
3h at 950°C - only fire
- Cat. "W" from BS 6387
15min. at 650°C - fire + water
- Cat. "Z" from BS 6387
30min. at 950°C - fire + mech. shock
- Cat. PH120 from EN 50200
60min. at 830°C - fire + mech. shock
- Cat. PH60 from EN 50200 ANNEX E
30min. at 830°C - fire + mech. shock + 15min of fire + mech. shock & water
- Flame retardant acc. to IEC 60332-1-2
- Flame test on bunched wires acc. to IEC 60332-3-24 cat. C
- Accid gas emission acc. to BS EN 50267-2-1 amd. 2
- Smoke density acc. to BS EN 61034-2

Application

Fire alarm cable for fire detection systems or emergency lighting systems in public buildings and offices where human safety is of primary concern or where expensive or sensitive equipment may be damaged by exposure to acid forming gases.

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

| Part no. | No. cores x cross-sec. mm ² | Outer Ø app. mm | Copper weight kg / km | Weight app. kg / km | Conductor type |
|----------|--|-----------------|-----------------------|---------------------|----------------|
| 11007300 | 2 x 1 | 7,8 | 28,0 | 67 | solid |
| 11007301 | 3 x 1 | 8,1 | 37,0 | 84 | solid |
| 11007302 | 4 x 1 | 8,7 | 46,0 | 101 | solid |
| 11007310 | 2 x 1,5 | 8,7 | 39,0 | 87 | solid |
| 11007311 | 3 x 1,5 | 9,1 | 52,0 | 114 | solid |
| 11007312 | 4 x 1,5 | 9,8 | 66,0 | 139 | solid |
| 11007320 | 2 x 2,5 | 9,8 | 65,0 | 131 | solid |
| 11007321 | 3 x 2,5 | 10,3 | 87,0 | 168 | solid |
| 11007322 | 4 x 2,5 | 11,2 | 109,0 | 211 | solid |

| Part no. | No. cores x cross-sec. mm ² | Outer Ø app. mm | Copper weight kg / km | Weight app. kg / km | Conductor type |
|----------|--|-----------------|-----------------------|---------------------|----------------|
| 11007358 | 2 x 1 | 8,0 | 28,0 | 69 | class 2 |
| 11007359 | 3 x 1 | 8,4 | 37,0 | 87 | class 2 |
| 11007360 | 4 x 1 | 9,1 | 47,0 | 109 | class 2 |
| 11007368 | 2 x 1,5 | 9,0 | 41,0 | 96 | class 2 |
| 11007369 | 3 x 1,5 | 9,5 | 55,0 | 121 | class 2 |
| 11007370 | 4 x 1,5 | 10,2 | 69,0 | 147 | class 2 |
| 11007378 | 2 x 2,5 | 10,3 | 68,0 | 138 | class 2 |
| 11007379 | 3 x 2,5 | 10,8 | 90,0 | 176 | class 2 |
| 11007380 | 4 x 2,5 | 11,8 | 113,0 | 222 | class 2 |
| 11007388 | 2 x 4 | 11,3 | 108,0 | 192 | class 2 |
| 11007389 | 3 x 4 | 11,9 | 145,0 | 247 | class 2 |
| 11007390 | 4 x 4 | 13,0 | 181,0 | 304 | class 2 |

Dimensions and specifications may be changed without prior notice.