

HELUTHERM® FR BS 7629

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



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 +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

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

Note

- RoHS compliant

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.