# Draka
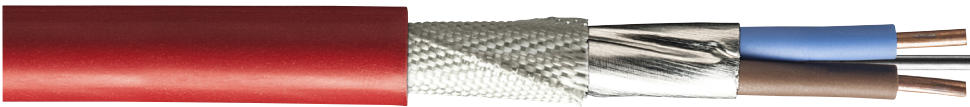
# Ft120 FIRETUF®

## Firetuf FT 120 - Enhanced Fire Resistant Cable

Firetuf FT120 is the 'enhanced' fire resistant cable solution for fire detection, fire alarm, emergency voice communication and emergency lighting circuits. It meets the requirements of the construction standard BS7629-1, certified by BASEC and also meets the 'enhanced' requirements for fire resistance in BS8434-2, certified by LPCB. It is suitable for all 'enhanced' applications described in BS5839-1,6,8 & 9 and BS5266-1 and FT120 retains the easy handling advantages of a pliable cable with lower termination costs and no special tool requirements.



## Construction

| | |
|---|---|
| **Manufacturing standard:** | BS 7629-1 |
| **Conductors:** | Solid or stranded plain annealed copper wire (class 1 or class 2) to BS EN 60228 |
| **Conductor (earth):** | Solid or stranded tinned annealed copper wire (class 1 or class 2) to BS EN 60228 |
| **Insulation:** | Enhanced silicone rubber |
| **Binder:** | Enhanced close weave glass tape |
| **Electrostatic Screen:** | Enhanced aluminium/polyester laminated tape |
| **Sheath:** | Enhanced thermoplastic Zero Halogen, Low Smoke (OHLS®) |
| **Core colours:** | Two core:   Brown and Blue<br>Three core: Brown, Black and Grey<br>Four core:  Brown, Black, Grey and Blue |
| **Sheath colour:** | Red or White |

## Physical Characteristics

| | |
|---|---|
| **Voltage rating (Uo/U):** | 300/500V |
| **Operating temp:** | -20°C to 70°C<br>(the cable should not be installed when either the ambient or cable temperature is below 0°C) |
| **Min, bending radius:** | 6 x overall diameter of cable |
| **Curent rating:** | Refer to tables 4D2A & 4D2B in BS7671 |

## Performance Characteristics

| | |
|---|---|
| **Circuit integrity:** | BS 5266-1:2011  Clause 8.2.2(b) Enhanced<br>BS 5839-1:2013  Clause 26.2(e) Enhanced<br>BS 6387 C, W & Z<br>BS 8434-2:2003+A2:2009<br>BS EN 50200  PH120 |
| **Flame propagation:** | BS EN 60332-1-2<br>BS EN 60332-3-24 |
| **Smoke emission:** | BS EN 61034-2 |

Other colours are available on request

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| Nominal area of conductor mm² | Conductor class | Nominal area of CPC mm² | Maximum conductor resistance @ 20°C Ω/km | Approx. overall diameter mm | Approx. cable weight kg/km | Approx. capacitance values* | |
|---|---|---|---|---|---|---|---|
| | | | | | | Core-core nF/km | Core-screen nF/km |
| **Two core FTPLS2EH** | | | | | | | |
| 1.5 | 1 | 1.5 | 12.1 | 8.9 | 125 | 95 | 150 |
| 2.5 | 1 | 2.5 | 7.4 | 10.4 | 185 | 100 | 165 |
| 4 | 2 | 4 | 4.6 | 12.2 | 255 | 125 | 205 |
| **Three core FTPLS3EH** | | | | | | | |
| 1.5 | 1 | 1.5 | 12.1 | 9.2 | 145 | 95 | 150 |
| 2.5 | 1 | 2.5 | 7.4 | 11.0 | 215 | 100 | 165 |
| 4 | 2 | 4 | 4.6 | 13.1 | 305 | 125 | 205 |
| **Four core FT9LS4EH** | | | | | | | |
| 1.5 | 1 | 1.5 | 12.1 | 10.1 | 170 | 95 | 150 |
| 2.5 | 1 | 2.5 | 7.4 | 12.0 | 255 | 100 | 165 |
| 4 | 2 | 4 | 4.6 | 14.1 | 360 | 125 | 205 |

*These values are approximate, as they are not required by the manufacturing standard, and should be verified by measurement.