



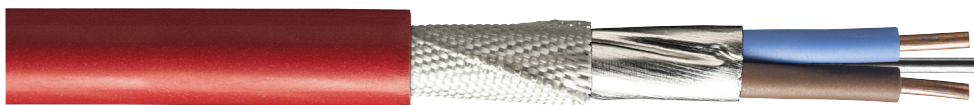
# Draka

# 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. LU approved cable (LU Approval ref 422).



#### Construction

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

#### Physical Characteristics

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

#### Performance Characteristics

<b>Circuit integrity:</b>	BS 5266-1:2011 Clause 8.2.2(b) Enhanced BS 5839-1:2013 Clause 26.2(e) Enhanced BS 6387 C, W & Z BS 8434-2:2003+A2:2009 BS EN 50200 PH120
<b>Flame propagation:</b>	BS EN 60332-1-2 BS EN 60332-3-24
<b>Smoke emission:</b>	BS EN 61034-2
<b>Acid gas emission:</b>	BS EN 60754-1

Other colours are available on request





# Draka

## **FT120** FIRETUF®

Nominal area of conductor mm <sup>2</sup>	Conductor class	Nominal area of CPC mm <sup>2</sup>	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 FTPLS4EH

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.



## Certificate of Product Approval

Licensee:  
**Draka UK Ltd**

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:  
Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Standard:  
BS 7629-1:2015

Description:  
Fire resistant screened cables

Details:  
ENHANCED 120. Additionally tested to BS 6387:2013 Category CWZ.

Materials:  
Insulation EI 5, Sheath LTS 3

Brand Name:  
FT120

Origin Mark:  
DRAKA UK (B)

### Permissible Approval Marks:

**BASEC**



BASEC name

BASEC roundel

Signed for and on behalf of the British Approvals Service for Cables

*Tony Lioveri*

Date: 17/11/2020

Date of original issue: 28/02/2013

Check BASEC website to verify validity.

Page 1 of 2

BASEC, Presley House, Presley Way, Milton Keynes, MK8 0ES,  
Registered in England No. 1150237, Tel: +44(0)1908267300  
Email: mail@basec.org.uk, Web: www.basec.org.uk



Expiry date:  
**11/08/2023**



Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
2	N/A	Class 1	2	1.5	2.5
2	N/A	Class 2	2	4	4
2	N/A	Class 1	3	1.5	2.5
2	N/A	Class 2	3	4	4
2	N/A	Class 1	4	1.5	2.5
2	N/A	Class 2	4	4	4

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Expiry date:  
**11/08/2023**



Certificate No:  
**189/001/067**  
Issue No: 5

Type(s) and Range(s) of Approval

Table / Clause	Code Designation	Conductor Class	Range of Cores	Min Nominal Size -sqmm	Max Nominal Size - sqmm
2	N/A	Class 1	2	1.5	2.5
2	N/A	Class 2	2	4	4
2	N/A	Class 1	3	1.5	2.5
2	N/A	Class 2	3	4	4
2	N/A	Class 1	4	1.5	2.5
2	N/A	Class 2	4	4	4

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Expiry date:  
**11/08/2023**

## Certificate of Product Approval

Certificate Number: 1134b

Issue: 02

### DRAKA UK LIMITED

Chickenhall Lane  
Bishopstoke  
Eastleigh  
Hants  
SO50 6YU  
United Kingdom



is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix having complied with the requirements of the standard(s) detailed below:

**Product(s)**

Cable Types as listed below:  
FT120  
See Certificate Appendix for details

**Standard(s) (see Appendix for details)**

BS 7629-1:2008  
EN 50200:2006 (Class PH120)  
BS 8434-2:2003+A2:2009 (120 mins)  
BS 5839-1:2013 (Clause 26.2e Enhanced)

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.

Signed for LPCB

David Hoare  
Certification Scheme Manager

04 November 2014  
Date of Issue

19 February 2013  
Date of First issue



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## Appendix to Certificate No: 1134b DRAKA UK LIMITED

Issue: 02

Product name						LPCB Ref. No.
FT120						1134b/01
Nominal csa of conductor (mm <sup>2</sup> )	Core Construction (excluding drain wire & earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	EN 5839-1 (clause 26.2)
1.5	2, 3 & 4 <sup>(1,3)</sup>	Complies <sup>(4)</sup>	CWZ	PH120	120min <sup>(5)</sup>	Enhanced <sup>(6)</sup>
2.5	2, 3 & 4 <sup>(1,3)</sup>	Complies <sup>(4)</sup>	CWZ	PH120	120min <sup>(5)</sup>	Enhanced <sup>(6)</sup>
4.0	2, 3 & 4 <sup>(2,3)</sup>	Complies <sup>(4)</sup>	CWZ	PH120	120min <sup>(5)</sup>	Enhanced <sup>(6)</sup>

### Uo/U 300/500 V

#### Notes:

1. Solid conductor only.
2. Stranded conductor only.
3. All cables have the blue core designated as a Neutral conductor; only phase to earth voltage was applied to the 2 core cables.
4. In meeting the requirements of BS 7629-1: 2008, the FT120 cables listed met the requirements for smoke density of EN 61034-2: 2005, the fire resistance requirements in BS 6387:2013 Categories CWZ and achieved less than 0.5%HCl for the outer covering, binder tape & insulation when tested in accordance with EN 50267-2-1: 1999.
5. The duration of 120 min when tested in accordance with BS 8434-2: 2003 + A2:2009 is achieved by 60 min for the fire and mechanical shock phase and an additional 60 min for the fire, mechanical shock and water phase.
6. The FT120 cables listed conform to BS 7629-1: 2008, met Class PH120 when tested in accordance with EN 50200: 2006 and met a duration of 120min when tested in accordance with BS 8434-2: 2003 + A2:2009 and hence met the requirements for an enhanced fire resistant cable as described in Clause 26.2 of BS 5839-1: 2013.

This Certificate is maintained and held in force through regular surveillance activities and subject to the corresponding ISO 9001 Certificate being maintained.



Signed for LPCB

David Hoare  
Certification Scheme Manager

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