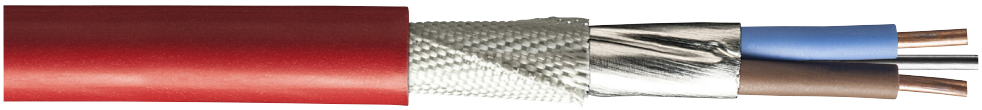
Draka

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

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:	Harmonised Two core: Brown and Blue Three core: Brown, Black and Grey Four core: Brown, Black, Grey and Blue Non-Harmonised/Middle East Two core: Red and Black Three core: Red, Yellow and Blue Four core: Black, Red, Yellow and Blue
Sheath colour:	Red or White

Physical Characteristics

Voltage rating (Uo/U):	300/500V
Operating temp:	-20°C to 70°C (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 BS 5839-1:2013 Clause 26.2(e) Enhanced BS 6387 C, W & Z BS 8434-2:2003+A2:2009 BS EN 50200 PH120
Flame propagation:	BS EN 60332-1-2 BS EN 60332-3-24
Smoke emission:	BS EN 61034-2
Acid gas emission:	BS EN 60754-1

Other colours are available on request

LPCB LOSS PREVENTION CERTIFICATION BOARD

BASEC BRITISH APPROVALS SERVICE FOR CABLES

Draka

Ft120 FIRETUF®

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 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.

DrakaFT1200616

Prysmian Group,
Chickenhall Lane,
Eastleigh,
SO50 6YU

Sales Telephone
01332 345431

www.drakauk.com

A brand of the Prysmian Group

Certificate No:
189/001/067

Issue No: 7

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 name | BASEC roundel

Signed for and on behalf of BASEC Group Limited

Date: 06/08/2026

Date of original issue: 28/02/2013
Check BASEC website to verify validity.

BASEC Group Limited, Presley House, Presley Way, Milton Keynes, MK8 0ES, UK
Registered in England No. 13950143, Tel: +44 (0)1908 267300
Email: mail@basec.org.uk Web: www.basec.org.uk

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
11/08/2029

BASEC
a kiwa company

Certificate No:
189/001/067

Issue No: 7

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

Signed for and on behalf of BASEC Group Limited

Date: 06/08/2026

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BASEC Group Limited, Presley House, Presley Way, Milton Keynes, MK8 0ES, UK
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Email: mail@basec.org.uk Web: www.basec.org.uk

UKAS PRODUCT CERTIFICATION 0004

Expiry date:
11/08/2029

LPCB®

www.redbooklive.com

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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LPCB is part of BRE Global Ltd, Garston, Watford, WD25 9XX
T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com

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Appendix to Certificate No: 1134b

Issue: 02

DRAKA UK LIMITED

Product name						LPCB Ref. No.
FT120						1134b/01
Nominal csa of conductor (mm^2)	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[1,3]	Complies[4]	CWZ	PH120	120min[5]	Enhanced[6]
2.5	2, 3 & 4[1,3]	Complies[4]	CWZ	PH120	120min[5]	Enhanced[6]
4.0	2, 3 & 4[2,3]	Complies[4]	CWZ	PH120	120min[5]	Enhanced[6]

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%HCI 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	04 November 2014 Date of Issue	19 February 2013 Date of First issue

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T: +44 (0)333 321 8811 F: +44 (0)1923 664603 E: enquiries@breglobal.com

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