

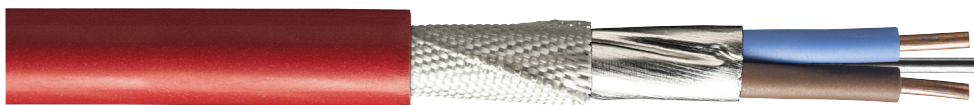


Draka

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	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
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





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FT120 FIRETUF®

Nominal area of conductor mm ²	Conductor class	Nominal area of CPC mm ²	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

Certificate Number: 1134b

Issue: 04

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

Standard(s) (see Appendix for details)

BS 7629-1:2015 (ENHANCED 120)
BS 6387:2013 C,W,Z)
EN 50200:2015 (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 BRE Global Ltd.

Karen Coull
Certification Scheme Manager

27 April 2018
Date of Issue

19 February 2013
Date of First Issue



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Appendix to Certificate No: 1134b DRAKA UK LIMITED

Issue: 04

Product name						LPCB Ref. No.
FT120						1134b/01
Nominal csa of conductor (mm ²)	Core Construction (excluding drain wire and earth)	BS 7629-1	BS 6387	EN 50200	BS 8434-2	BS 5839-1 Clause 26.2
1.5	2, 3 & 4 ^(1, 3)	ENHANCED 120 ⁽⁴⁾	C,W,Z	PH120	120min ⁽⁵⁾	Enhanced ⁽⁶⁾
2.5	2, 3 & 4 ^(1, 3)	ENHANCED 120 ⁽⁴⁾	C,W,Z	PH120	120min ⁽⁵⁾	Enhanced ⁽⁶⁾
4.0	2, 3 & 4 ^(2, 3)	ENHANCED 120 ⁽⁴⁾	C,W,Z	PH120	120min ⁽⁵⁾	Enhanced ⁽⁶⁾

Uo/U 300/500V

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 7629-1:2015, the FT120 cables listed met the requirements for smoke density of EN 61034-2:2005+A1:2013, and achieved less than 0.5% HCl for the insulation, binder tape, and outer covering when tested in accordance with EN 60754-1:2014 and in addition also met the fire resistance requirements of BS 6387:2013 Categories CWZ.
5. The duration of 120min when tested in accordance with BS 8434-2:2003+A2:2009 is achieved by 60min for the fire and mechanical shock phase and an additional 60min for the fire, mechanical shock and water phase.
6. The FT120 cables listed conform to BS 7629-1:2015, met Class PH120 when tested in accordance with EN 50200:2015 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.

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Registration No. 422

Title FT120 Circuit Integrity Alarm Cable (formerly known as Firetufplus Enhanced and Firetuf OHLS Plus cables)

Status Authorised For Use

Date Authorised for Use 23 Aug 2010

Primary Use Zero Halogen, Low Smoke Cables to maintain circuit integrity when exposed to fire, meeting the enhanced category of BS 5839-1:2002 +A2:2008

Additional Info/KeyWords Manufacturer: Draka Ltd, PO Box 6500, Alfreton Road, Derby, DE21 4ZH. Tel: 01332 345431. FT120 cables comply with LU Standard 1-085 A2 'Fire Safety Performance of Materials' and can be used in below ground locations without restriction.

Classification Hierarchy Premises

Manufactured By Draka Limited

Supersedes ProductID N/A

Superseded By ProductID N/A

Requirements

ReqID	Requirement	Status	Trial
No records to display.			

Conditions

Description	Linked To ReqID
No records to display.	

Evidence

EvidenceText	EvidenceType	FileName	Linked To ReqID
LUL Product Assessment	Consultation	SST 1054.pdf	
Product Guide	User Guide	FT120.pdf	
Installation Guide	User Guide	Firetuf OHLS - Firetuf Plus Enhanced r1.pdf	
Draka Letter on the Change of Product Names	Other	Draka Letter - Firetuf Alarm Cables.pdf	

Refer to Web site www.lu-apr.co.uk to check current status, download attachments and for details of other products.