



Draka

FTP120

FIRETUF®

Firetuf FTP 120 - Fire Resistant Armoured Power Cable

Draka Firetuf FTP120 is a fire resistant armoured power cable solution for all three categories of fire performance required by BS8519, Category 1,2 and 3. FTP120 is third party approved by LPCB for 120 min classification in BS8491. This is the test for fire resistance that includes direct flame, direct impact and water jet at 850°C. FTP120 holds third party BASEC certification to BS7846, the construction requirements for fire resistant armoured cables, LU APR ref 406.



Construction

Manufacturing standard:	BS 7846-F120
Conductors:	Stranded plain annealed copper wire (Class 2) to BS EN 60228
Insulation:	Mica-glass fire resistant tapes, covered by an extruded layer of XLPE
Binder:	Polyester tape, glass tapes where performance requires
Bedding:	Zero Halogen, Low Smoke (OHLS®)
Armour:	Galvanised Steel Wire Armour
Sheath:	Zero Halogen, Low Smoke (OHLS®)
Core colours:	Two core: Brown and Blue Three core: Brown, Black and Grey Four core: Brown, Black, Grey and Blue Five core: Brown, Black, Grey, Blue, Green/Yellow

Physical Characteristics

Voltage rating (Uo/U):	600/1000V
Operating temp:	-25°C to +90°C (the cable should not be installed when either the ambient or cable temperature is below 0°C)
Min, bending radius:	8 x overall diameter of cable
Current rating:	Refer to tables 4E4A & 4E4B in BS7671 or ERA 69-30 Part V

Note: In the event of a fire, the increase in impedance may require consideration to the installation of larger conductor sizes, to accommodate motor starting loads and the performance of protective conductors.

Performance Characteristics

Circuit integrity:	BS 7846-F120 BS 8491 30, 60 and 120mins
Smoke emission:	BS EN 61034-2
Acid gas emission:	BS EN 60754-1
Flame propagation:	BS EN 60332-1-2 BS EN 60332-3-24



Certificate No 1134d/02*



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2 Core FTTP2H

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20 C Ω/km	AC at 90 C Ω/km		
mm ²	mm	mm	mm	kg/km			mm ²	Ω/km
4*	1.25	14.8	21	800	4.61	5.878	19	7.9
6*	1.25	14.7	21	850	3.08	3.927	22	7
10*	1.25	17.2	23	1100	1.83	2.333	26	6
16*	1.25	18.4	25	1250	1.15	1.466	42	3.7
25*	1.25	21	27	1550	0.727	0.926	42	3.7
35*	1.6	24	31	2100	0.524	0.6685	60	2.6
50	1.6	23	30	2100	0.387	0.494	68	2.3
70	1.6	26	33	2600	0.268	0.3412	80	2
95	2.0	27	36	3400	0.193	0.2471	113	1.4
120	2.0	31	39	4100	0.153	0.1964	125	1.3
150	2.0	33	42	4800	0.124	0.1597	138	1.2
185	2.5	37	47	6100	0.0991	0.1284	191	0.82
240	2.5	41	51	7500	0.0754	0.0989	215	0.73
300	2.5	45	56	9000	0.0601	0.0801	235	0.67
400	2.5	50	61	10900	0.047	0.0641	265	0.59

3 Core FTTP3H

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20 C Ω/km	AC at 90 C Ω/km		
mm ²	mm	mm	mm	kg/km			mm ²	Ω/km
4*	1.25	15.7	22	910	4.61	5.878	20	7.5
6*	1.25	15	21	860	3.08	3.927	23	6.7
10*	1.25	18.7	25	1200	1.83	2.333	39	4
16*	1.25	19.7	26	1400	1.15	1.466	45	3.5
25*	1.6	23	30	2000	0.727	0.926	62	2.5
35*	1.6	26	33	2500	0.524	0.6685	68	2.3
50	1.6	26	33	2700	0.387	0.494	78	2
70	1.6	29	36	3400	0.268	0.3412	90	1.8
95	2.0	32	41	4600	0.193	0.2471	128	1.3
120	2.0	35	44	5500	0.153	0.1964	141	1.2
150	2.5	39	49	7000	0.124	0.1597	201	0.78
185	2.5	43	53	8300	0.0991	0.1284	220	0.71
240	2.5	47	58	10300	0.0754	0.0989	250	0.63
300	2.5	52	63	12400	0.0601	0.0801	269	0.58
400	2.5	58	69	15200	0.047	0.0641	304	0.52

4 Core FTTP4H

Nominal area of conductor	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum conductor resistance		Nominal area of armour	Maximum armour resistance at 20°C
					DC at 20°C Ω/km	AC at 90°C Ω/km		
mm ²	mm	mm	mm	kg/km			mm ²	Ω/km
4*	1.25	15.3	21	860	4.61	5.878	22	6.8
6*	1.25	16.4	23	1000	3.08	3.927	36	4.3
10*	1.25	21	26	1400	1.83	2.333	42	3.7
16*	1.25	22	28	1650	1.15	1.466	50	3.1
25*	1.6	26	33	2400	0.727	0.926	70	2.3
35*	1.6	29	36	3000	0.524	0.6685	78	2
50	1.6	30	37	3300	0.387	0.494	90	1.8
70	2.0	32	41	4600	0.268	0.3412	131	1.2
95	2.0	36	45	5800	0.193	0.2471	147	1.1
120	2.5	40	50	7400	0.153	0.1964	206	0.76
150	2.5	44	54	8700	0.124	0.1597	230	0.68
185	2.5	49	59	10500	0.0991	0.1284	255	0.61
240	2.5	54	65	13100	0.0754	0.0989	289	0.54
300	2.5	59	70	15800	0.0601	0.0801	319	0.49
400	3.15	66	79	20400	0.047	0.0641	452	0.35



*Circular conductors, all others are shaped conductors

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5 Core FTTP5H

Nominal area of conductor mm ²	Armour wire diameter mm	Approx. diameter under armour mm	Approx. overall diameter mm	Approx. cable weight kg/km	Maximum conductor resistance		Nominal area of armour mm ²	Maximum armour resistance at 20°C Ω/km
					DC at 20 C Ω/km	AC at 90 C Ω/km		
4*	1.25	174	24	1050	4.61	5.878	25	6.2
6*	1.25	18	24	1150	3.08	3.927	40	3.9
10*	1.25	23	29	1650	1.83	2.333	46	3.4
16*	1.6	25	32	2100	1.15	1.466	72	2.2
25*	1.6	28	35	2800	0.727	0.926	88	1.8
35*	1.6	32	39	3300	0.524	0.6685	100	1.6

*No LPCB approval for 5 core

*Circular conductors, all others are shaped conductors



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Certificate of Product Approval

Certificate Number: 1134d

Issue: 02

DRAKA UK LIMITED

Chickenhall Lane
Bishopstoke
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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:
FTP 120

Standard(s) (see Appendix for details)

BS 8491:2008
EN 60754-1:2014
BS EN 61034-2:2005

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

7 March 2019
Date of Issue

1 March 2013
Date of First issue



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Appendix to Certificate No: 1134d DRAKA UK LIMITED

Issue: 02

Product name				LPCB Ref. No.
FTP 120				1134d/01
Nominal csa of conductor (mm ²)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2
2.5 ⁽¹⁾	7	120 min	<0.5% HCl	>60%
4.0 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
6.0 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
10 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
16 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
25 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
35 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
50 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
70 ⁽¹⁾	2 ⁽²⁾ & 3	120 min	<0.5% HCl	>60%

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. All 2 core cables have the blue core designed as a neutral conductor; only phase to earth voltage was applied.

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Signed for BRE Global Ltd.

Karen Coull
Certification Scheme Manager

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Appendix to Certificate No: 1134d DRAKA UK LIMITED

Issue: 02

Product name				LPCB Ref. No.
FTP 120				1134d/02
Nominal csa of conductor (mm ²)	Core Construction	BS 8491	EN 60754-1	BS EN 61034-2
70 ⁽¹⁾	4	120 min	<0.5% HCl	>60%
95 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
120 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
150 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
185 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
240 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
300 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%
400 ⁽¹⁾	2 ⁽²⁾ , 3 & 4	120 min	<0.5% HCl	>60%

Uo/U 600/1000V

Notes:

1. Stranded conductor only.
2. All 2 core cables have the blue core designed as a neutral conductor; only phase to earth voltage was applied.

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