



Draka



Firetuf FTP – Fire Resistant Armoured Power Cable

Firetuf FTP is the original Draka fire resistant armoured cable and meets the requirements of the construction standard BS7846 with classification F2. The advanced Draka OHLS® characteristics are retained in FTP with halogen free and low smoke properties and also the flame retardant performance that minimises the spread of fire along the cable. FTP holds third party certification by BASEC and LPCB.



Construction

Manufacturing standard:	BS 7846	
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	
Bedding:	Zero Halogen, Low Smoke (OHLS)	
Armour:	Galvanised Steel Wire Armour	
Sheath:	Zero Halogen, Low Smoke (OHLS)	
Core colours:	Harmonised	Non-Harmonised/Middle East
	Two core: Brown and Blue	Red and Black
	Three core: Brown, Black and Grey	Red, Yellow and Blue
	Four core: Brown, Black, Grey and Blue	Black, Red, Yellow and Blue
Sheath colour:	Black (Other colours available on request)	

Physical Characteristics

Voltage rating (U₀/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
Curent 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 6387 categories C, W & Z BS 7846 F2
Smoke emission:	BS EN 61034-2
Acid gas emmission:	BS EN 50267-2-1
Flame propagation:	BS EN 60332-1-2 BS EN 60332-3-24



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FTP

FIRETUF®

2 Core 2FTP2H

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
1.5*	0.9	8.8	12.9	340	12.1	15.428	15	10.2
2.5*	0.9	9.8	14.1	400	7.41	9.448	17	8.8
4*	0.9	10.7	15.0	465	4.61	5.878	19	7.9
6*	0.9	12.0	16.3	555	3.08	3.927	22	7
10*	0.9	14.2	18.8	750	1.83	2.333	26	6
16*	1.25	15.5	20.7	1015	1.15	1.466	42	3.7
25*	1.25	19.1	24.5	1415	0.727	0.926	42	3.7
35*	1.6	21.4	27.7	1895	0.524	0.6685	60	2.6
50	1.6	21.1	27.7	1955	0.387	0.494	68	2.3
70	1.6	24.1	31.0	2515	0.268	0.3412	80	2
95	2.0	25.3	32.8	3225	0.193	0.2471	113	1.4
120	2.0	28.9	36.4	3900	0.153	0.1964	125	1.3
150	2.0	31.2	39.1	4575	0.124	0.1597	138	1.2
185	2.5	34.7	43.9	5890	0.0991	0.1284	191	0.82
240	2.5	39.4	48.7	7275	0.0754	0.0989	215	0.73
300	2.5	43.8	53.4	8825	0.0601	0.0801	235	0.67
400	2.5	48.6	58.5	10725	0.047	0.0641	265	0.59

3 Core 2FTP3H

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
1.5*	0.9	9.3	13.4	365	12.1	15.428	16	9.5
2.5*	0.9	10.4	14.7	440	7.41	9.448	19	8.2
4*	0.9	11.4	15.7	515	4.61	5.878	20	7.5
6*	0.9	12.8	17.1	630	3.08	3.927	23	6.7
10*	1.25	15.2	20.4	985	1.83	2.333	39	4
16*	1.25	16.5	21.9	1200	1.15	1.466	45	3.5
25*	1.6	20.6	26.9	1855	0.727	0.926	62	2.5
35*	1.6	22.9	29.4	2265	0.524	0.6685	68	2.3
50	1.6	23.6	30.3	2525	0.387	0.494	78	2
70	1.6	26.8	33.7	3280	0.268	0.3412	90	1.8
95	2.0	30.0	37.6	4360	0.193	0.2471	128	1.3
120	2.0	33.1	40.9	5230	0.153	0.1964	141	1.2
150	2.5	37.0	46.0	6650	0.124	0.1597	201	0.78
185	2.5	40.8	49.9	7920	0.0991	0.1284	220	0.71
240	2.5	45.6	55.2	9950	0.0754	0.0989	250	0.63
300	2.5	50.5	60.3	12020	0.0601	0.0801	269	0.58
400	2.5	56.3	66.4	14805	0.047	0.0641	304	0.52



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4 Core 2FTP4H

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		
1.5*	0.9	10.4	14.5	420	12.1	15.428	17	8.8
2.5*	0.9	11.6	15.9	510	7.41	9.448	20	7.7
4*	0.9	12.7	17.1	605	4.61	5.878	22	6.8
6*	1.25	14.3	19.5	860	3.08	3.927	36	4.3
10*	1.25	16.7	21.9	1135	1.83	2.333	42	3.7
16*	1.25	18.2	23.6	1415	1.15	1.466	50	3.1
25*	1.6	22.8	29.0	2190	0.727	0.926	70	2.3
35*	1.6	25.3	31.8	2700	0.524	0.6685	78	2
50	1.6	27.0	33.9	3145	0.387	0.494	90	1.8
70	2.0	30.3	38.0	4295	0.268	0.3412	131	1.2
95	2.0	33.8	41.7	5455	0.193	0.2471	147	1.1
120	2.5	37.8	46.8	7010	0.153	0.1964	206	0.76
150	2.5	41.9	51.1	8335	0.124	0.1597	230	0.68
185	2.5	46.7	56.3	10095	0.0991	0.1284	255	0.61
240	2.5	52.2	61.9	12655	0.0754	0.0989	289	0.54
300	2.5	57.3	67.3	15320	0.0601	0.0801	319	0.49
400	3.15	64.2	76.0	19810	0.047	0.0641	452	0.35



DrakaFTP0616

*Circular conductors, all others are shaped conductors

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Group

Certificate of Product Approval

Certificate Number: 1134e

Issue: 03

DRAKA UK LIMITED

Chickenhall Lane
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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:
FTP
See Certificate Appendix for details

Standard(s) (see Appendix for details)

BS 6387:2013 CWZ
EN 61034-2:2005+A1:2013
EN 60754-1:2014

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

Damien Ward

Signed for LPCB

Damien Ward
Certification Scheme Manager

26 September 2016
Date of Issue

01 March 2013
Date of First issue



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Appendix to Certificate No: 1134e DRAKA UK LIMITED

Issue: 03

Product name				LPCB Ref. No.
FTP				1134e/02
Nominal csa of conductor (mm ²)	Core Construction	BS 6387	EN 61034-2	EN 60754-1 (outer covering)
1.5	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
2.5	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
4.0	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
6.0	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
10	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
16	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
25	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
35	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
50	2, 3 & 4 ⁽¹⁾	CWZ	>60%	<0.5% HCI
70	2, & 3 ⁽¹⁾	CWZ	>60%	<0.5% HCI

U₀/U 600/1000 V

Notes:

1. Stranded conductors only.
2. Testing of the FTP range with diameters greater than 20mm were successfully carried out in accordance with Clause 17.6.2 and Annex I of BS 7846:2015.

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

Damien Ward

Signed for LPCB

Damien Ward
Certification Scheme Manager

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