



# 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

<b>Manufacturing standard:</b>	BS 7846
<b>Conductors:</b>	Stranded plain annealed copper wire (class 2) to BS EN 60228
<b>Insulation:</b>	Mica-glass fire resistant tapes, covered by an extruded layer of XLPE
<b>Binder:</b>	Polyester tape
<b>Bedding:</b>	Zero Halogen, Low Smoke (OHLS)
<b>Armour:</b>	Galvanised Steel Wire Armour
<b>Sheath:</b>	Zero Halogen, Low Smoke (OHLS)
<b>Core colours:</b>	Two core: Brown and Blue Three core: Brown, Black and Grey Four core: Brown, Black, Grey and Blue
<b>Sheath colour:</b>	Black (Other colours available on request)

### Physical Characteristics

<b>Voltage rating (Uo/U):</b>	600/1000V.
<b>Operating temp:</b>	-25°C to +90°C (the cable should not be installed when either the ambient or cable temperature is below 0°C)
<b>Min, bending radius:</b>	8 x overall diameter
<b>Curent rating:</b>	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

<b>Circuit integrity:</b>	BS 6387 categories C, W & Z BS 7846 F2
<b>Smoke emission:</b>	BS EN 61034-2
<b>Acid gas emmission:</b>	BS EN 50267-2-1
<b>Flame propagation:</b>	BS EN 60332-1-2 BS EN 60332-3-24



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### 2 Core 2FTP2H

Nominal area of conductor mm <sup>2</sup>	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 <sup>2</sup>	Maximum armour resistance at 20°C Ω/km
					DC at 20°C Ω/km	AC at 90°C 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 mm <sup>2</sup>	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 <sup>2</sup>	Maximum armour resistance at 20°C Ω/km
					DC at 20°C Ω/km	AC at 90°C 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

### 4 Core 2FTP4H

Nominal area of conductor mm <sup>2</sup>	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 <sup>2</sup>	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



DrakaFTP-30102013

\*Circular conductors, all others are shaped conductors

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