

## **FTP**

Fire Resistant Armoured Power Cable. BS 7846-F2. 600/1000 V





Draka Firetuf® FTP is a tough, armoured cable with low fire hazard properties and limited fire resistance

## **KEY APPLICATIONS**

Fire resistant, low fire hazard armoured power and control cable. Use for fire performance circuits in public buildings.

# **FEATURES AND BENEFITS**

- Fire resistant to BS 7846 F2
- Robust armour provides cable with added mechanical protection
- Reduced flame propagation
- Low smoke and corrosive gas emissions OHLS®
- Multi core steel wire armour
- Manufactured under ISO 9001 Quality management systems

## **STANDARDS**





BS 7846 - Category F2 BS 6387 Category CWZ BS EN 60332-1-2 BS EN 60332-3-24 BS EN 61034-2 BS EN 60754-1 Construction Standard
Fire Resistant Tests
Flame Propagation - Single Cable
Flame Propagation - Multiple (bunched) Cables - Category C
Smoke emission
Corrosive and acid gas



#### **CONSTRUCTION**

Conductor materialCopperConductor surfaceBareCore insulation materialMica + XLPEArmouring/reinforcementWire

Armouring/reinforcement Wir.
Armouring Yes

Material inner sheath Low smoke zero halogen
Material outer sheath Low smoke zero halogen

Cable shape Round

#### **APPLICATIONS PROPERTIES**

Nominal voltage U0 [V] 600 Nominal voltage U [V] 1,000

Flame retardant In accordance with BS EN 60332-3-24

Halogen free Low smoke Max. conductor temperature [°C] 90 Min. Operation temperature [°C] -25 UV resistant Yes Outdoor installation Yes Min. Installation temperature [°C] 0 Max. Installation temperature [°C] 80 Underground installation Yes Bending radius (rule) 8D

#### **COLOURS**

Insulation: Two Cores: Brown, Blue; Three Cores: Brown, Black, Grey; Four Cores: Blue, Brown, Black, Grey;

Five Cores: Blue, Brown, Black, Grey, Green/Yellow; 7 to 37 Cores: White (with printed numbers);

Sheath:Black

#### **CURRENT RATINGS**

Refer to table 4E4 of BS 7671 Requirements for Electrical Installations. IET Wiring Regulations

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature

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# TECHNICAL DATA

Number of cores	Nominal cross section conductor [mm²]	Shape of conductor	Nominal diameter of armouring wire [mm]	Nominal diameter under armour [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
2	1.5	Round	0.9	9.1	13.4	345	12.1
2	2.5	Round	0.9	10.2	14.8	415	7.41
2	4	Round	0.9	11.4	15.8	480	4.61
2	6	Round	0.9	12	16.6	550	3.08
2	10	Round	0.9	15.1	19.8	740	1.83
2	16	Round	1.25	16.3	22	1,050	1.15
2	25	Round	1.25	19.6	26	1,400	0.727
2	35	Round	1.6	23	29	1,900	0.524
2	50	Sector-shaped	1.6	23	30	2,100	0.387
2	70	Sector-shaped	1.6	25	33	2,600	0.268
2	95	Sector-shaped	2	26	34	3,200	0.193
2	120	Sector-shaped	2	29	37	3,900	0.153
2	150	Sector-shaped	2	32	40	4,600	0.124
2	185	Sector-shaped	2.5	35	45	5,900	0.0991
2	240	Sector-shaped	2.5	40	50	7,200	0.0754
2	300	Sector-shaped	2.5	44	54	8,600	0.0601
2	400	Sector-shaped	2.5	49	59	10,500	0.047
3	1.5	Round	0.9	9.3	13.9	370	12.1
3	2.5	Round	0.9	10.8	15.4	455	7.41
3	4	Round	0.9	11.6	16.3	525	4.61
3	6	Round	0.9	13.3	17.8	650	3.08
3	10	Round	1.25	16	22	1,000	1.83
3	16	Round	1.25	17.6	24	1,250	1.15
3	25	Round	1.6	22	28	1,800	0.727
3	35	Round	1.6	25	32	2,300	0.524
3	50	Sector-shaped	1.6	25	32	2,600	0.387
3	70	Sector-shaped	1.6	28	35	3,300	0.268
3	95	Sector-shaped	2	30	38	4,400	0.193
3	120	Sector-shaped	2	34	42	5,200	0.153
3	150	Sector-shaped	2.5	37	47	6,600	0.124
3	185	Sector-shaped	2.5	42	51	7,900	0.0991
3	240	Sector-shaped	2.5	47	56	9,900	0.0754
3	300	Sector-shaped	2.5	51	61	11,900	0.0601
3	400	Sector-shaped	2.5	57	67	14,700	0.047
4	1.5	Round	0.9	10.2	14.8	415	12.1



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Number of cores	Nominal cross section conductor [mm²]	Shape of conductor	Nominal diameter of armouring wire [mm]	Nominal diameter under armour [mm]	Nominal outer diameter [mm]	Cable weight [kg/km]	Conductor resistance at 20° C [Ohm/km]
4	2.5	Round	0.9	12.1	16.9	530	7.41
4	4	Round	0.9	13	17.6	610	4.61
4	6	Round	1.25	14.7	21	880	3.08
4	10	Round	1.25	17.6	24	1,150	1.83
4	16	Round	1.25	19.3	25	1,450	1.15
4	25	Round	1.6	24	30	2,200	0.727
4	35	Round	1.6	28	34	2,800	0.524
4	50	Sector-shaped	1.6	29	35	3,200	0.387
4	70	Sector-shaped	2	31	39	4,200	0.268
4	95	Sector-shaped	2	34	42	5,300	0.193
4	120	Sector-shaped	2.5	38	48	6,800	0.153
4	150	Sector-shaped	2.5	42	52	8,100	0.124
4	185	Sector-shaped	2.5	47	57	9,900	0.0991
4	240	Sector-shaped	2.5	53	63	12,200	0.0754
4	300	Sector-shaped	2.5	58	68	14,900	0.0601
4	400	Sector-shaped	3.15	65	77	19,400	0.047
5	1.5	Round	0.9	11.2	15.6	445	12.1
5	2.5	Round	0.9	12.9	17.3	550	7.41
5	4	Round	0.9	14.2	18.7	660	4.61
5	6	Round	1.25	16.3	23	990	3.08
5	10	Round	1.25	19.2	25	1,300	1.83
5	16	Round	1.6	22	29	1,900	1.15
5	25	Round	1.6	27	34	2,600	0.727
5	35	Round	1.6	30	37	3,200	0.524
7	1.5	Round	0.9	12.2	16.8	520	12.1
7	2.5	Round	0.9	14.9	19.4	700	7.41
7	4	Round	1.25	15.5	21	920	4.61
12	1.5	Round	1.25	16.2	22	860	12.1
12	2.5	Round	1.25	18.7	25	1,100	7.41
12	4	Round	1.6	21	27	1,500	4.61
19	1.5	Round	1.25	19	25	1,150	12.1
19	2.5	Round	1.6	23	29	1,650	7.41
27	1.5	Round	1.6	24	30	1,650	12.1
27	2.5	Round	1.6	27	34	2,100	7.41
27	4	Round	1.6	30	37	2,600	4.61

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37	1.5	Round	1.6	27	33	1,950	12.1
37	2.5	Round	1.6	31	38	2,600	7.41