

FTP120

Fire Resistant Armoured Power Cable. BS 7846-F120. 600/1000 V





Draka Firetuf® FTP120 is the ultimate fire resistant, armoured cable for power and control of emergency, life safety and fighting systems used in buildings

KEY APPLICATIONS

Designed primarily for clipped directly to a surface, on tray, in basket or in free air. These cables can also be laid direct in ground or in ducts in free draining soil, or embedded in concrete

Smoke barriers, control dampers, smoke curtains.

Smoke and heat exhaust ventilation systems.

Fire fighting and evacuation lift supplies.

Extinguishing systems - sprinkler pumps, water mist and powder.

Wet riser pumps.

FEATURES AND BENEFITS

- Fire resistant to BS 7846 F120
- Suitable for use in large and complex buildings to power fire fighting equipment
- BS 8519 Category 1, 2 and 3 for power
- Robust armour provides cable with added mechanical protection
- Reduced flame propagation
- Zero Halogen, Low Smoke (OHLS®) sheath
- Multi core steel wire armour
- Designed to meet the requirements of London Underground LUL S1085 Fire Safety Performance of Materials Stations and Tunnel Infrastructure
- Manufactured under ISO 9001 Quality management systems

STANDARDS



BS 7846 - Category F120 BS 8491 - 120 Minutes 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 Test - Flame, Shock & Water - Up to 120 Minutes

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 + XLPE

Armouring/reinforcement Wire 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;

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



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	4	Round	1.25	14.9	21	800	4.61
2	6	Round	1.25	14.7	21	850	3.08
2	10	Round	1.25	17.3	23	1,100	1.83
2	16	Round	1.25	18.5	25	1,250	1.15
2	25	Round	1.25	21	27	1,550	0.727
2	35	Round	1.6	24	31	2,100	0.524
2	50	Sector-shaped	1.6	23	30	2,100	0.387
2	70	Sector-shaped	1.6	26	33	2,600	0.268
2	95	Sector-shaped	2	27	36	3,400	0.193
2	120	Sector-shaped	2	31	39	4,100	0.153
2	150	Sector-shaped	2	33	42	4,800	0.124
2	185	Sector-shaped	2.5	37	47	6,100	0.0991
2	240	Sector-shaped	2.5	41	51	7,500	0.0754
2	300	Sector-shaped	2.5	45	56	9,000	0.0601
2	400	Sector-shaped	2.5	50	61	10,900	0.047
3	4	Round	1.25	15.7	22	910	4.61
3	6	Round	1.25	15	21	860	3.08
3	10	Round	1.25	18.7	25	1,200	1.83
3	16	Round	1.25	19.7	26	1,400	1.15
3	25	Round	1.6	23	30	2,000	0.727
3	35	Round	1.6	26	33	2,500	0.524
3	50	Sector-shaped	1.6	26	33	2,700	0.387
3	70	Sector-shaped	1.6	29	36	3,400	0.268
3	95	Sector-shaped	2	32	41	4,600	0.193
3	120	Sector-shaped	2	35	44	5,500	0.153
3	150	Sector-shaped	2.5	39	49	6,900	0.124
3	185	Sector-shaped	2.5	43	53	8,200	0.0991
3	240	Sector-shaped	2.5	47	58	10,300	0.0754
3	300	Sector-shaped	2.5	52	63	12,300	0.0601
3	400	Sector-shaped	2.5	58	69	15,100	0.047
4	4	Round	1.25	15.3	21	860	4.61
4	6	Round	1.25	16.4	23	1,000	3.08
4	10	Round	1.25	21	26	1,400	1.83
4	16	Round	1.25	22	28	1,650	1.15
4	25	Round	1.6	26	33	2,400	0.727



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]
4	35	Round	1.6	29	36	3,000	0.524
4	50	Sector-shaped	1.6	30	37	3,300	0.387
4	70	Sector-shaped	2	32	41	4,500	0.268
4	95	Sector-shaped	2	36	45	5,700	0.193
4	120	Sector-shaped	2.5	40	50	7,300	0.153
4	150	Sector-shaped	2.5	44	54	8,600	0.124
4	185	Sector-shaped	2.5	49	59	10,500	0.0991
4	240	Sector-shaped	2.5	54	65	12,900	0.0754
4	300	Sector-shaped	2.5	59	70	15,600	0.0601
4	400	Sector-shaped	3.15	66	79	20,200	0.047
5	4	Round	1.25	17.4	24	1,050	4.61
5	6	Round	1.25	18	24	1,150	3.08
5	10	Round	1.25	23	29	1,650	1.83
5	16	Round	1.6	25	32	2,100	1.15
5	25	Round	1.6	28	35	2,800	0.727
5	35	Round	1.6	32	39	3,300	0.524

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