

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 material | Copper |
| Conductor surface | Bare |
| Core insulation material | Mica + 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 U ₀ [V] | 600 |
| Nominal voltage U [V] | 1,000 |
| Flame retardant | In accordance with BS EN 60332-3-24 |
| Halogen free | Yes |
| Low smoke | Yes |
| 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

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 |

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 | 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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TECHNICAL DATA

| Number of cores | Nominal cross section conductor [mm ²] | 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] |
|--------------------|---|-----------------------|--|---|--------------------------------------|-------------------------|---|
| 37 | 1.5 | Round | 1.6 | 27 | 33 | 1,950 | 12.1 |
| 37 | 2.5 | Round | 1.6 | 31 | 38 | 2,600 | 7.41 |