

FlexFlame BFOU 1kV P5/P12/P105 Power cable



Fire resistant, flame retardant halogen-free power cable.

BFOU 0,6/1(1,2)kV

MGT/EPR/EPR/TCWB/EVA

BFOU 1kV NEK TS 606 Code P105

BFOU M 1kV NEK TS 606 Code P5/P12/P105

Operating temperature

: 90°C

Operating Voltage

: 0,6/1(1,2)kV

Standards applied

Application

Fixed installation for power, control and lighting in both EX (Zone 0, 1 & 2)- and safe areas, emergency and critical systems where requirement for fire resistance exists.

BFOU M 1kV for installation in areas exposed to MUD and drilling/cleaning fluids. Meets the Oil & Mud resistance requirement in NEK TS 606:2016.

IEC 60092-353

- Design

IEC 60228 class 2

- Conductor

IEC 60092-360

- Insulation

IEC 60092-360

- Sheath

IEC 60332-1-2

- Flame Retardant

IEC 60332-3-22

- Flame Retardant

IEC 60331-1, -2, -21

- Fire Resistant

IEC 60754-1,2

- Halogen Free

IEC 61034-1,2

- Low Smoke

Construction

| | Code Letter | |
|---------------------------------|-------------|--|
| Conductor | | Tinned annealed stranded circular copper, IEC 60228 class 2 |
| Insulation | B | Mica-tape + EP-rubber, IEC 60092-360 (EPR) |
| Lay up / Shielding | | Cores laid up in concentric layers |
| Inner covering | F | Flame retardant and halogen-free extruded compound |
| Tape over inner covering | | PET tape |
| Armour/screen | O | Tinned annealed copper wire braid |
| Tape over armour/screen | | PET tape |
| Outer sheath | U | Flame retardant, halogen-free thermoset compound, SHF2 (IEC 60092-360) |
| Marking text (example) | | "meter" "year/week" DRAKA 01 Part no. <SAP code> BFOU M 0,6/1kV P5/P12/P105 3 x 25/16 mm ² FLEX - FLAME IEC 60092-353 IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22 Production no. <Prod.ordre no.> |
| Manufacturing unit | | DRAKA 01 = Prysmian Group Norge AS |
| Outer sheath colour | | Black |

*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm

**) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes

All BFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 8296331 and higher.

Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

Core identification power cables

Single core - Black

Two cores - Blue - Brown

Three cores - Brown - Black - Grey

Four cores - Blue - Brown - Black - Grey

Five cores - Blue - Brown - Black - Grey - Black

Seven cores and above - White with black numbers

Two cores + earth (3G) - Yellow/green - Blue - Brown

Three cores + earth (4G) - Yellow/green - Brown - Black - Grey

Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey

G / X in cable description - G = One of the cores are yellow/green - X = no yellow/green core

Core identification - to HD308S2 - and IEC 60445 Ed 5.0 2010-08

Range and dimensions

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor Diameter, mm | Insulation Thickness, mm | Thickness Inner covering, mm | Diameter inner covering, mm | Diameter Braid Wire, mm | Mechanical cross-section of the braid, mm ² | Thickness Outer Sheath, mm | Diameter outer sheath, mm | Weight of Cable Approx. (Kg/Km) | Copper content Approx. (kg/km) |
|--------------------|-------------------------------------|---|------------------------|--------------------------|------------------------------|-----------------------------|-------------------------|--|----------------------------|---------------------------|---------------------------------|--------------------------------|
| 1 | 16 | 4 | 5.0 | 1.0 | 1.1 | 9.5 ± 0.5 | 0.2 | 5.3 | 1.2 | 12.5 ± 0.8 | 351 | 191 |
| 1 | 25 | 4 | 6.3 | 1.2 | 1.1 | 11.5 ± 0.8 | 0.2 | 6.0 | 1.2 | 14.5 ± 0.8 | 479 | 278 |
| 1 | 35 | 6 | 7.40 | 1.2 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 640 | 401 |
| 1 | 50 | 10 | 8.75 | 1.4 | 1.1 | 14 ± 0.8 | 0.3 | 12.7 | 1.4 | 18 ± 0.8 | 825 | 534 |
| 1 | 70 | 10 | 10.6 | 1.4 | 1.1 | 16 ± 0.8 | 0.3 | 12.7 | 1.4 | 19.5 ± 0.8 | 1060 | 731 |
| 1 | 95 | 10 | 12.35 | 1.6 | 1.1 | 18 ± 0.8 | 0.3 | 15.3 | 1.5 | 22 ± 1 | 1365 | 967 |
| 1 | 120 | 10 | 14.00 | 1.6 | 1.1 | 19.5 ± 1 | 0.3 | 15.3 | 1.6 | 23.5 ± 1 | 1650 | 1207 |
| 1 | 150 | 16 | 15.45 | 1.8 | 1.1 | 21.5 ± 1 | 0.3 | 17.8 | 1.6 | 26 ± 1 | 1975 | 1457 |
| 1 | 185 | 16 | 17.3 | 2.0 | 1.1 | 23.5 ± 1 | 0.3 | 17.8 | 1.7 | 28 ± 1 | 2370 | 1768 |
| 1 | 240 | 16 | 19.85 | 2.2 | 1.1 | 26.5 ± 1 | 0.3 | 20.4 | 1.8 | 31.5 ± 1.5 | 3010 | 2302 |
| 1 | 300 | 16 | 22.25 | 2.4 | 1.1 | 29.5 ± 1 | 0.3 | 22.9 | 1.9 | 34 ± 1.5 | 3690 | 2866 |
| 1 | 400 | 25 | 26.0 | 2.6 | 1.1 | 33.5 ± 1.5 | 0.4 | 31.7 | 2.1 | 39 ± 1.5 | 5000 | 3983 |
| 1 | 500 | 35 | 29.0 | 2.8 | 1.1 | 37 ± 1.5 | 0.4 | 40.7 | 2.2 | 42.5 ± 2 | 6150 | 4991 |
| 1 | 630 | 35 | 32.80 | 2.8 | 1.1 | 40.5 ± 2 | 0.4 | 40.7 | 2.3 | 46.5 ± 2 | 7530 | 6220 |
| 2 | 1.5 | 4 | 1.6 | 1.0 | 1.1 | 9.5 ± 0.5 | 0.2 | 5.3 | 1.2 | 13 ± 0.8 | 275 | 78 |
| 3 | 1.5 | 4 | 1.6 | 1.0 | 1.1 | 10.5 ± 0.8 | 0.2 | 5.3 | 1.2 | 13.5 ± 0.8 | 300 | 91 |
| 4 | 1.5 | 6 | 1.6 | 1.0 | 1.1 | 11.5 ± 0.8 | 0.3 | 8.5 | 1.3 | 15 ± 0.8 | 380 | 135 |
| 5 | 1.5 | 6 | 1.6 | 1.0 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 455 | 165 |
| 7 | 1.5 | 6 | 1.6 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 17 ± 0.8 | 505 | 192 |
| 12 | 1.5 | 10 | 1.6 | 1.0 | 1.1 | 17.5 ± 0.8 | 0.3 | 13.6 | 1.5 | 21.5 ± 1 | 745 | 291 |
| 19 | 1.5 | 10 | 1.6 | 1.0 | 1.2 | 20.5 ± 0.8 | 0.3 | 15.3 | 1.6 | 24.5 ± 1 | 1025 | 400 |
| 27 | 1.5 | 16 | 1.6 | 1.0 | 1.2 | 25 ± 1 | 0.3 | 20.4 | 1.8 | 29 ± 1 | 1390 | 556 |
| 37 | 1.5 | 16 | 1.6 | 1.0 | 1.2 | 28 ± 1 | 0.3 | 22.9 | 1.9 | 32.5 ± 1.5 | 1760 | 714 |
| 3G | 1.5 | - | 1.6 | 1.0 | 1.1 | 10.5 ± 0.8 | 0.2 | 5.3 | 1.2 | 13.5 ± 0.8 | 300 | 91 |
| 4G | 1.5 | - | 1.6 | 1.0 | 1.1 | 11.5 ± 0.8 | 0.3 | 8.5 | 1.3 | 15 ± 0.8 | 380 | 135 |
| 5G | 1.5 | - | 1.6 | 1.0 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 455 | 165 |

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FlexFlame BFOU 1kV P5/P12/P105 Power cable

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor Diameter, mm | Insulation Thickness, mm | Thickness Inner covering, mm | Diameter inner covering, mm | Diameter Braid Wire, mm | Mechanical cross-section of the braid, mm ² | Thickness Outer Sheath, mm | Diameter outer sheath, mm | Weight of Cable Approx. (Kg/Km) | Copper content Approx. (kg/km) |
|--------------------|-------------------------------------|---|------------------------|--------------------------|------------------------------|-----------------------------|-------------------------|--|----------------------------|---------------------------|---------------------------------|--------------------------------|
| 2 | 2.5 | 4 | 2.0 | 1.0 | 1.1 | 10.5 ± 0.8 | 0.2 | 5.3 | 1.2 | 14 ± 0.8 | 320 | 94 |
| 3 | 2.5 | 6 | 2.0 | 1.0 | 1.1 | 11 ± 0.8 | 0.3 | 8.5 | 1.3 | 15 ± 0.8 | 390 | 146 |
| 4 | 2.5 | 6 | 2.0 | 1.0 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 460 | 183 |
| 5 | 2.5 | 6 | 2.0 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.4 | 17.5 ± 0.8 | 535 | 204 |
| 7 | 2.5 | 10 | 2.0 | 1.0 | 1.1 | 14.5 ± 0.8 | 0.3 | 11.9 | 1.4 | 18 ± 0.8 | 620 | 264 |
| 12 | 2.5 | 10 | 2.0 | 1.0 | 1.2 | 19.5 ± 0.8 | 0.3 | 15.3 | 1.6 | 23.5 ± 1 | 935 | 402 |
| 19 | 2.5 | 16 | 2.0 | 1.0 | 1.2 | 23 ± 1 | 0.3 | 17.8 | 1.7 | 27 ± 1 | 1295 | 576 |
| 27 | 2.5 | 16 | 2.0 | 1.0 | 1.2 | 27.5 ± 1 | 0.3 | 20.4 | 1.9 | 32 ± 1.5 | 1725 | 770 |
| 37 | 2.5 | 16 | 2.0 | 1.0 | 1.4 | 31.5 ± 1.5 | 0.30 | 22.9 | 2.0 | 36 ± 1.5 | 2260 | 1010 |
| 3G | 2.5 | - | 2.0 | 1.0 | 1.1 | 11 ± 0.8 | 0.3 | 8.5 | 1.3 | 15 ± 0.8 | 390 | 146 |
| 4G | 2.5 | - | 2.0 | 1.0 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 460 | 183 |
| 5G | 2.5 | - | 2.0 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.4 | 17.5 ± 0.8 | 535 | 204 |
| 7G | 2.5 | - | 2.0 | 1.0 | 1.1 | 14.5 ± 0.8 | 0.3 | 11.9 | 1.4 | 18 ± 0.8 | 615 | 264 |
| 2 | 4 | 6 | 2.5 | 1.0 | 1.1 | 11.5 ± 0.8 | 0.3 | 8.5 | 1.3 | 15.5 ± 0.8 | 420 | 152 |
| 3 | 4 | 6 | 2.5 | 1.0 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 490 | 202 |
| 4 | 4 | 6 | 2.5 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.4 | 17.5 ± 0.8 | 555 | 236 |
| 3G | 4 | - | 2.5 | 1.0 | 1.1 | 12.5 ± 0.8 | 0.3 | 10.2 | 1.3 | 16 ± 0.8 | 490 | 202 |
| 4G | 4 | - | 2.5 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.4 | 17.5 ± 0.8 | 555 | 236 |
| 5G | 4 | - | 2.5 | 1.0 | 1.1 | 15 ± 0.8 | 0.3 | 11.9 | 1.4 | 18.5 ± 0.8 | 660 | 287 |
| 2 | 6 | 6 | 3.1 | 1.0 | 1.1 | 13 ± 0.8 | 0.3 | 10.2 | 1.3 | 16.5 ± 0.8 | 510 | 206 |
| 3 | 6 | 6 | 3.1 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.4 | 17.5 ± 0.8 | 585 | 260 |
| 4 | 6 | 10 | 3.1 | 1.0 | 1.1 | 15 ± 0.8 | 0.3 | 11.9 | 1.4 | 18.5 ± 0.8 | 695 | 331 |
| 3G | 6 | - | 3.1 | 1.0 | 1.1 | 13.5 ± 0.8 | 0.3 | 10.2 | 1.4 | 17.5 ± 0.8 | 585 | 260 |
| 4G | 6 | - | 3.1 | 1.0 | 1.1 | 15 ± 0.8 | 0.3 | 11.9 | 1.4 | 18.5 ± 0.8 | 695 | 331 |
| 5G | 6 | - | 3.1 | 1.0 | 1.1 | 16.5 ± 0.8 | 0.3 | 13.6 | 1.5 | 20.5 ± 1 | 835 | 401 |
| 2 | 10 | 10 | 4.0 | 1.0 | 1.1 | 14.5 ± 0.8 | 0.3 | 11.9 | 1.4 | 18.5 ± 0.8 | 660 | 290 |
| 3 | 10 | 10 | 4.0 | 1.0 | 1.1 | 15.5 ± 0.8 | 0.3 | 11.9 | 1.4 | 19.5 ± 0.8 | 770 | 377 |
| 4 | 10 | 10 | 4.0 | 1.0 | 1.1 | 17.5 ± 0.8 | 0.3 | 13.6 | 1.5 | 21 ± 1 | 940 | 481 |
| 3G | 10 | - | 4.0 | 1.0 | 1.1 | 15.5 ± 0.8 | 0.3 | 11.9 | 1.4 | 19.5 ± 0.8 | 770 | 377 |

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| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor Diameter, mm | Insulation Thickness, mm | Thickness Inner covering, mm | Diameter inner covering, mm | Diameter Braid Wire, mm | Mechanical cross-section of the braid, mm ² | Thickness Outer Sheath, mm | Diameter outer sheath, mm | Weight of Cable Approx. (Kg/Km) | Copper content Approx. (kg/km) |
|--------------------|-------------------------------------|---|------------------------|--------------------------|------------------------------|-----------------------------|-------------------------|--|----------------------------|---------------------------|---------------------------------|--------------------------------|
| 4G | 10 | - | 4.0 | 1.0 | 1.1 | 17.5 ± 0.8 | 0.3 | 13.6 | 1.5 | 21 ± 1 | 970 | 481 |
| 5G | 10 | - | 4.0 | 1.0 | 1.2 | 19 ± 0.8 | 0.3 | 15.3 | 1.5 | 23 ± 1 | 1125 | 585 |
| 2 | 16 | 16 | 5.05 | 1.0 | 1.1 | 17 ± 0.8 | 0.4 | 18.1 | 1.5 | 21 ± 1 | 915 | 455 |
| 3 | 16 | 16 | 5.05 | 1.0 | 1.1 | 18 ± 0.8 | 0.4 | 18.1 | 1.5 | 22 ± 1 | 1080 | 595 |
| 4 | 16 | 16 | 5.05 | 1.0 | 1.2 | 20 ± 1 | 0.3 | 17.8 | 1.6 | 24 ± 1 | 1300 | 732 |
| 3G | 16 | - | 5.05 | 1.0 | 1.1 | 18 ± 0.8 | 0.3 | 13.6 | 1.5 | 22 ± 1 | 1030 | 551 |
| 4G | 16 | - | 5.05 | 1.0 | 1.2 | 20 ± 1 | 0.3 | 15.3 | 1.6 | 24 ± 1 | 1275 | 707 |
| 5G | 16 | - | 5.05 | 1.0 | 1.2 | 22 ± 1 | 0.3 | 17.8 | 1.6 | 26 ± 1 | 1520 | 871 |
| 2 | 25 | 16 | 6.3 | 1.2 | 1.2 | 20.5 ± 1 | 0.3 | 17.8 | 1.6 | 24.5 ± 1 | 1255 | 614 |
| 3 | 25 | 16 | 6.3 | 1.2 | 1.2 | 22 ± 1 | 0.3 | 17.8 | 1.6 | 26 ± 1 | 1505 | 834 |
| 4 | 25 | 16 | 6.3 | 1.2 | 1.2 | 24.5 ± 1 | 0.3 | 17.8 | 1.7 | 28.5 ± 1 | 1835 | 1054 |
| 3G | 25 | - | 6.3 | 1.2 | 1.2 | 22 ± 1 | 0.3 | 17.8 | 1.6 | 26 ± 1 | 1505 | 834 |
| 4G | 25 | - | 6.3 | 1.2 | 1.2 | 24.5 ± 1 | 0.3 | 17.8 | 1.7 | 28.5 ± 1 | 1845 | 1054 |
| 5G | 25 | - | 6.3 | 1.2 | 1.2 | 27 ± 1 | 0.3 | 20.4 | 1.8 | 31 ± 1.5 | 2190 | 1299 |
| 2 | 35 | 16 | 7.4 | 1.2 | 1.1 | 22.5 ± 1 | 0.3 | 17.8 | 1.7 | 26.5 ± 1 | 1525 | 778 |
| 3 | 35 | 16 | 7.4 | 1.2 | 1.1 | 24.5 ± 1 | 0.3 | 17.8 | 1.7 | 28.5 ± 1.5 | 1860 | 1081 |
| 4 | 35 | 16 | 7.4 | 1.2 | 1.1 | 27 ± 1 | 0.3 | 20.4 | 1.8 | 31 ± 1.5 | 2320 | 1408 |
| 3G | 35 | - | 7.4 | 1.2 | 1.1 | 24 ± 1 | 0.3 | 17.8 | 1.7 | 28.5 ± 1.5 | 1860 | 1081 |
| 4G | 35 | - | 7.4 | 1.2 | 1.1 | 27 ± 1 | 0.3 | 20.4 | 1.8 | 31 ± 1.5 | 2320 | 1408 |
| 5G | 35 | - | 7.4 | 1.2 | 1.1 | 29.5 ± 1 | 0.3 | 22.9 | 1.9 | 34 ± 1.5 | 2770 | 1735 |
| 2 | 50 | 25 | 8.75 | 1.4 | 1.1 | 26 ± 1 | 0.4 | 27.1 | 1.8 | 30.5 ± 1.5 | 2030 | 1086 |
| 3 | 50 | 25 | 8.75 | 1.4 | 1.1 | 27.5 ± 1 | 0.4 | 27.1 | 1.9 | 32.5 ± 1.5 | 2500 | 1497 |
| 4 | 50 | 25 | 8.75 | 1.4 | 1.1 | 30.5 ± 1.5 | 0.4 | 27.1 | 2 | 35.5 ± 1.5 | 3065 | 1909 |
| 4G | 50 | - | 8.75 | 1.4 | 1.1 | 30.5 ± 1.5 | 0.3 | 22.9 | 2 | 35.5 ± 1.5 | 3020 | 1867 |
| 5G | 50 | - | 8.75 | 1.4 | 1.1 | 34 ± 1.5 | 0.4 | 36.2 | 2.1 | 39 ± 1.5 | 3790 | 2407 |
| 2 | 70 | 35 | 10.60 | 1.4 | 1.1 | 29.5 ± 1 | 0.5 | 42.4 | 1.9 | 34.5 ± 1.5 | 2810 | 1630 |
| 3 | 70 | 35 | 10.60 | 1.4 | 1.1 | 31.5 ± 1.5 | 0.5 | 42.4 | 2 | 37 ± 1.5 | 3470 | 2239 |
| 4 | 70 | 35 | 10.60 | 1.4 | 1.1 | 35 ± 1.5 | 0.4 | 40.7 | 2.2 | 40.5 ± 2 | 4260 | 2833 |
| 5 | 70 | 35 | 10.60 | 1.4 | 1.1 | 39 ± 1.5 | 0.4 | 40.7 | 2.3 | 44.5 ± 2 | 5125 | 3442 |
| 3G | 70 | - | 10.60 | 1.4 | 1.1 | 31.5 ± 1.5 | 0.3 | 22.9 | 2 | 36.5 ± 1.5 | 3270 | 2051 |
| 4G | 70 | - | 10.60 | 1.4 | 1.1 | 35 ± 1.5 | 0.4 | 36.2 | 2.2 | 40.5 ± 2 | 4220 | 2789 |
| 5G | 70 | - | 10.60 | 1.4 | 1.1 | 39 ± 1.5 | 0.4 | 40.7 | 2.3 | 44.5 ± 2 | 5125 | 3442 |
| 2 | 95 | 50 | 12.35 | 1.6 | 1.4 | 34.5 ± 1.5 | 0.61 | 52.6 | 2.1 | 40.5 ± 2 | 3750 | 2153 |
| 3 | 95 | 50 | 12.35 | 1.6 | 1.4 | 37 ± 1.5 | 0.5 | 49.5 | 2.2 | 42.5 ± 2 | 4585 | 2944 |
| 4 | 95 | 50 | 12.35 | 1.6 | 1.4 | 41 ± 2 | 0.5 | 49.5 | 2.4 | 47 ± 2 | 5655 | 3766 |
| 4G | 95 | - | 12.35 | 1.6 | 1.4 | 41 ± 2 | 0.4 | 40.7 | 2.4 | 47 ± 2 | 5568 | 3680 |
| 5G | 95 | - | 12.35 | 1.6 | 1.4 | 45.5 ± 2 | 0.4 | 45.2 | 2.5 | 51.5 ± 2.5 | 6820 | 4546 |

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| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor Diameter, mm | Insulation Thickness, mm | Thickness Inner covering, mm | Diameter inner covering, mm | Diameter Braid Wire, mm | Mechanical cross-section of the braid, mm ² | Thickness Outer Sheath, mm | Diameter outer sheath, mm | Weight of Cable Approx. (Kg/Km) | Copper content Approx. (kg/km) |
|--------------------|-------------------------------------|---|------------------------|--------------------------|------------------------------|-----------------------------|-------------------------|--|----------------------------|---------------------------|---------------------------------|--------------------------------|
| 2 | 120 | 60 | 14.0 | 1.6 | 1.4 | 37.5 ± 1.5 | 0.61 | 63.1 | 2.2 | 44 ± 2 | 4125 | 2734 |
| 3 | 120 | 60 | 14.0 | 1.6 | 1.4 | 40.5 ± 2 | 0.61 | 63.1 | 2.3 | 47 ± 2 | 5715 | 3798 |
| 4 | 120 | 60 | 14.0 | 1.6 | 1.4 | 45 ± 2 | 0.61 | 63.1 | 2.5 | 51.5 ± 2.5 | 7050 | 4860 |
| 4G | 120 | - | 14.0 | 1.6 | 1.4 | 45 ± 2 | 0.4 | 45.2 | 2.5 | 51 ± 2.5 | 6856 | 4687 |
| 5G | 120 | - | 14.0 | 1.6 | 1.4 | 50 ± 2.5 | 0.5 | 49.5 | 2.7 | 57 ± 2.5 | 8394 | 5795 |
| 4G | 150 | - | 15.45 | 1.8 | 1.4 | 49.5 ± 2 | 0.5 | 56.5 | 2.7 | 56 ± 2.5 | 8390 | 5703 |
| 5G | 150 | - | 15.45 | 1.8 | 1.4 | 55 ± 2.5 | 0.5 | 56.5 | 2.9 | 62 ± 3 | 10120 | 7003 |
| 4G | 185 | - | 17.3 | 2.0 | 1.4 | 55 ± 2.5 | 0.5 | 56.5 | 2.9 | 62 ± 3 | 10190 | 6961 |

Ordering information

| Part number | Description | Sheath Colour | GTIN 1m | EL No. |
|-------------|---|---------------|---------------|---------|
| 20120052 | BFOU M 1kV 1X 16/4mm ² P5/P12/P105 BK | BLACK | 7021528002003 | 1043605 |
| 20110496 | BFOU M 1kV 1X 25/4mm ² P5/P12/P105 BK | BLACK | 7021528002010 | - |
| 20167406 | BFOU M 1kV 1X 35/6mm ² P5/P12/P105 BK | BLACK | 7021528002027 | - |
| 20110497 | BFOU M 1kV 1X 50/10mm ² P5/P12/P105 BK | BLACK | 7021528002034 | 1043608 |
| 20110498 | BFOU M 1kV 1X 70/10mm ² P5/P12/P105 BK | BLACK | 7021528002041 | 1043609 |
| 20110499 | BFOU M 1kV 1X 95/10mm ² P5/P12/P105 BK | BLACK | 7021528002058 | 1043610 |
| 20110500 | BFOU M 1kV 1X 120/10mm ² P5/P12/P105 BK | BLACK | 7021528002065 | 1043611 |
| 20110501 | BFOU M 1kV 1X 150/16mm ² P5/P12/P105 BK | BLACK | 7021528002072 | 1043612 |
| 20110502 | BFOU M 1kV 1X 185/16mm ² P5/P12/P105 BK | BLACK | 7021528002089 | 1043613 |
| 20110503 | BFOU M 1kV 1X 240/16mm ² P5/P12/P105 BK | BLACK | 7021528002096 | - |
| 20109432 | BFOU M 1kV 1X 300/16mm ² P5/P12/P105 BK | BLACK | 7021528002102 | 1043615 |
| 20132148 | BFOU M 1kV 1X 400/25mm ² P5/P12/P105 BK | BLACK | 7021528002119 | - |
| 20298574 | BFOU M 1kV 1X 500/35mm ² P5/P12/P105 BK | BLACK | 7021528002126 | - |
| 20204148 | BFOU M 1kV 1X 630/35mm ² P5/P12/P105 BK | BLACK | 7021528002133 | - |
| 20110504 | BFOU M 1kV 2X 1.5/4mm ² P5/P12/P105 BK | BLACK | 7021528002157 | 1043620 |
| 20110507 | BFOU M 1kV 3X 1.5/4mm ² P5/P12/P105 BK | BLACK | 7021528002188 | 1043640 |
| 20110508 | BFOU M 1kV 4X 1.5/6mm ² P5/P12/P105 BK | BLACK | 7021528002195 | 1043660 |
| 20110509 | BFOU M 1kV 5X 1.5/6mm ² P5/P12/P105 BK | BLACK | 7021528002201 | 1043705 |
| 20110510 | BFOU M 1kV 7X 1.5/6mm ² P5/P12/P105 BK | BLACK | 7021528002218 | 1043707 |
| 20109433 | BFOU M 1kV 12X 1.5/10mm ² P5/P12/P105 BK | BLACK | 7021528002225 | 1043712 |
| 20110511 | BFOU M 1kV 19X 1.5/10mm ² P5/P12/P105 BK | BLACK | 7021528002232 | 1043719 |
| 20110512 | BFOU M 1kV 27X 1.5/16mm ² P5/P12/P105 BK | BLACK | 7021528002249 | 1043727 |
| 20109434 | BFOU M 1kV 37X 1.5/16mm ² P5/P12/P105 BK | BLACK | 7021528002256 | 1043737 |
| 20110505 | BFOU M 1kV 3G 1.5mm ² P5/P12/P105 BK | BLACK | 7021528002164 | 1043619 |
| 20110506 | BFOU M 1kV 4G 1.5mm ² P5/P12/P105 BK | BLACK | 7021528002171 | - |
| 20110513 | BFOU M 1kV 5G 1.5mm ² P5/P12/P105 BK | BLACK | 7021528002263 | - |
| 20110515 | BFOU M 1kV 2X 2.5/4mm ² P5/P12/P105 BK | BLACK | 7021528002294 | 1043621 |
| 20110517 | BFOU M 1kV 3X 2.5/6mm ² P5/P12/P105 BK | BLACK | 7021528002324 | 1043641 |
| 20110519 | BFOU M 1kV 4X 2.5/6mm ² P5/P12/P105 BK | BLACK | 7021528002355 | 1043661 |
| 20121182 | BFOU M 1kV 5X 2.5/6mm ² P5/P12/P105 BK | BLACK | 7021528002348 | - |
| 20110520 | BFOU M 1kV 7X 2.5/10mm ² P5/P12/P105 BK | BLACK | 7021528002379 | 1043757 |
| 20110521 | BFOU M 1kV 12X 2.5/10mm ² P5/P12/P105 BK | BLACK | 7021528002386 | 1043762 |
| 20110522 | BFOU M 1kV 19X 2.5/16mm ² P5/P12/P105 BK | BLACK | 7021528002393 | 1043769 |
| 20112294 | BFOU M 1kV 27X 2.5/16mm ² P5/P12/P105 BK | BLACK | 7021528002409 | 1043777 |
| 20109435 | BFOU M 1kV 37X 2.5/16mm ² P5/P12/P105 BK | BLACK | 7021528002416 | 1043787 |

All BFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

| Part number | Description | Sheath Colour | GTIN 1m | EL No. |
|-------------|---|---------------|---------------|---------|
| 20110516 | BFOU M 1kV 3G 2.5mm ² P5/P12/P105 BK | BLACK | 7021528002300 | 1043639 |
| 20110518 | BFOU M 1kV 4G 2.5mm ² P5/P12/P105 BK | BLACK | 7021528002331 | 1043659 |
| 20110523 | BFOU M 1kV 5G 2.5mm ² P5/P12/P105 BK | BLACK | 7021528002423 | 1043755 |
| 20110514 | BFOU M 1kV 7G 2.5mm ² P5/P12/P105 BK | BLACK | 7021528002287 | - |
| 20110526 | BFOU M 1kV 2X 4/6mm ² P5/P12/P105 BK | BLACK | 7021528002454 | 1043622 |
| 20110527 | BFOU M 1kV 3X 4/6mm ² P5/P12/P105 BK | BLACK | 7021528002461 | 1043642 |
| 20110528 | BFOU M 1kV 4X 4/6mm ² P5/P12/P105 BK | BLACK | 7021528002478 | 1043662 |
| 20110529 | BFOU M 1kV 3G 4mm ² P5/P12/P105 BK | BLACK | 7021528002508 | - |
| 20110524 | BFOU M 1kV 4G 4mm ² P5/P12/P105 BK | BLACK | 7021528002430 | - |
| 20110525 | BFOU M 1kV 5G 4mm ² P5/P12/P105 BK | BLACK | 7021528002447 | - |
| 20110530 | BFOU M 1kV 2X 6/6mm ² P5/P12/P105 BK | BLACK | 7021528002515 | 1043623 |
| 20110531 | BFOU M 1kV 3X 6/6mm ² P5/P12/P105 BK | BLACK | 7021528002522 | 1043643 |
| 20110532 | BFOU M 1kV 4X 6/10mm ² P5/P12/P105 BK | BLACK | 7021528002539 | 1043663 |
| 20110533 | BFOU M 1kV 3G 6mm ² P5/P12/P105 BK | BLACK | 7021528002546 | - |
| 20110534 | BFOU M 1kV 4G 6mm ² P5/P12/P105 BK | BLACK | 7021528002553 | - |
| 20110535 | BFOU M 1kV 5G 6mm ² P5/P12/P105 BK | BLACK | 7021528002560 | - |
| 20110536 | BFOU M 1kV 2X 10/10mm ² P5/P12/P105 BK | BLACK | 7021528002577 | 1043624 |
| 20110537 | BFOU M 1kV 3X 10/10mm ² P5/P12/P105 BK | BLACK | 7021528002584 | 1043644 |
| 20110538 | BFOU M 1kV 4X 10/10mm ² P5/P12/P105 BK | BLACK | 7021528002591 | 1043664 |
| 20110539 | BFOU M 1kV 3G 10mm ² P5/P12/P105 BK | BLACK | 7021528002607 | - |
| 20110540 | BFOU M 1kV 4G 10mm ² P5/P12/P105 BK | BLACK | 7021528002614 | - |
| 20110541 | BFOU M 1kV 5G 10mm ² P5/P12/P105 BK | BLACK | 7021528002621 | - |
| 20109436 | BFOU M 1kV 2X 16/16mm ² P5/P12/P105 BK | BLACK | 7021528002638 | 1043625 |
| 20110542 | BFOU M 1kV 3X 16/16mm ² P5/P12/P105 BK | BLACK | 7021528002645 | 1043645 |
| 20110543 | BFOU M 1kV 4X 16/16mm ² P5/P12/P105 BK | BLACK | 7021528002652 | 1043665 |
| 20110544 | BFOU M 1kV 3G 16mm ² P5/P12/P105 BK | BLACK | 7021528002669 | - |
| 20110546 | BFOU M 1kV 4G 16mm ² P5/P12/P105 BK | BLACK | 7021528002683 | - |
| 20110545 | BFOU M 1kV 5G 16mm ² P5/P12/P105 BK | BLACK | 7021528002676 | - |
| 20110547 | BFOU M 1kV 2X 25/16mm ² P5/P12/P105 BK | BLACK | 7021528002690 | 1043626 |
| 20110548 | BFOU M 1kV 3X 25/16mm ² P5/P12/P105 BK | BLACK | 7021528002706 | 1043646 |
| 20110549 | BFOU M 1kV 4X 25/16mm ² P5/P12/P105 BK | BLACK | 7021528002713 | 1043666 |
| 20158156 | BFOU M 1kV 3G 25mm ² P5/P12/P105 BK | BLACK | 7021528002744 | - |
| 20172200 | BFOU M 1kV 4G 25mm ² P5/P12/P105 BK | BLACK | 7021528002720 | - |
| 20133369 | BFOU M 1kV 5G 25mm ² P5/P12/P105 BK | BLACK | 7021528002737 | - |
| 20110762 | BFOU M 1kV 2X 35/16mm ² P5/P12/P105 BK | BLACK | 7021528002751 | 1043627 |
| 20110550 | BFOU M 1kV 3X 35/16mm ² P5/P12/P105 BK | BLACK | 7021528002768 | 1043647 |
| 20110551 | BFOU M 1kV 4X 35/16mm ² P5/P12/P105 BK | BLACK | 7021528002775 | 1043667 |
| 20204127 | BFOU M 1kV 3G 35mm ² P5/P12/P105 BK | BLACK | 7021528002782 | - |
| 20158157 | BFOU M 1kV 4G 35mm ² P5/P12/P105 BK | BLACK | 7021528002799 | - |
| 20110763 | BFOU M 1kV 5G 35mm ² P5/P12/P105 BK | BLACK | 7021528002805 | - |
| 20121221 | BFOU M 1kV 2X 50/25mm ² P5/P12/P105 BK | BLACK | 7021528002812 | - |
| 20110552 | BFOU M 1kV 3X 50/25mm ² P5/P12/P105 BK | BLACK | 7021528002829 | 1043648 |
| 20110553 | BFOU M 1kV 4X 50/25mm ² P5/P12/P105 BK | BLACK | 7021528002836 | 1043668 |
| 20196609 | BFOU M 1kV 4G 50mm ² P5/P12/P105 BK | BLACK | 7021528002850 | - |
| 20204128 | BFOU M 1kV 5G 50mm ² P5/P12/P105 BK | BLACK | 7021528002843 | - |
| 20110554 | BFOU M 1kV 2X 70/35mm ² P5/P12/P105 BK | BLACK | 7021528002874 | 1043629 |

All BFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

| Part number | Description | Sheath Colour | GTIN 1m | EL No. |
|-------------|--|---------------|---------------|---------|
| 20109437 | BFOU M 1kV 3X 70/35mm ² P5/P12/P105 BK | BLACK | 7021528002881 | 1043649 |
| 20109438 | BFOU M 1kV 4X 70/35mm ² P5/P12/P105 BK | BLACK | 7021528002898 | 1043669 |
| 20109439 | BFOU M 1kV 5X 70/35mm ² P5/P12/P105 BK | BLACK | 7021528002935 | - |
| 20221403 | BFOU M 1kV 3G 70mm ² P5/P12/P105 BK | BLACK | 7021528002928 | - |
| 20184102 | BFOU M 1kV 4G 70mm ² P5/P12/P105 BK | BLACK | 7021528002904 | - |
| 20204129 | BFOU M 1kV 5G 70mm ² P5/P12/P105 BK | BLACK | 7021528002911 | - |
| 20115558 | BFOU M 1kV 2X 95/50mm ² P5/P12/P105 BK | BLACK | 7021528002942 | - |
| 20109440 | BFOU M 1kV 3X 95/50mm ² P5/P12/P105 BK | BLACK | 7021528002959 | 1043650 |
| 20109441 | BFOU M 1kV 4X 95/50mm ² P5/P12/P105 BK | BLACK | 7021528002966 | 1043670 |
| 20110764 | BFOU M 1kV 4G 95mm ² P5/P12/P105 BK | BLACK | 7021528002973 | - |
| 20109442 | BFOU M 1kV 5G 95mm ² P5/P12/P105 BK | BLACK | 7021528002980 | - |
| 20132308 | BFOU M 1kV 2X 120/60mm ² P5/P12/P105 BK | BLACK | 7021528003000 | - |
| 20109443 | BFOU M 1kV 3X 120/60mm ² P5/P12/P105 BK | BLACK | 7021528003017 | 1043651 |
| 20120715 | BFOU M 1kV 4X 120/60mm ² P5/P12/P105 BK | BLACK | 7021528003048 | - |
| 20204134 | BFOU M 1kV 4G 120mm ² P5/P12/P105 BK | BLACK | 7021528003062 | - |
| Tba | BFOU M 1kV 5G 120mm ² P5/P12/P105 BK | BLACK | 7021528003208 | - |
| 20204147 | BFOU M 1kV 4G 150mm ² P5/P12/P105 BK | BLACK | 7021528003079 | - |
| 20132888 | BFOU M 1kV 5G 150mm ² P5/P12/P105 BK | BLACK | 7021528003185 | - |
| 20121096 | BFOU M 1kV 4G 185mm ² P5/P12/P105 BK | BLACK | 7021528003109 | - |

Electrical values power cables

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor type 2 | Max. conductor resistance at 20°C, Ohm/km | Max. conductor resistance at 90°C, Ohm/km | Reactance at 50Hz, Ohm/km | Reactance at 60Hz, Ohm/km | Current rating IEC 60092-352 Table B.4, Ampere | Short circuit rating 1 second, Ampere |
|--------------------|-------------------------------------|---|------------------|---|---|---------------------------|---------------------------|--|---------------------------------------|
| 1 | 16 | 4 | STCC | 1.16 | 1.48 | 0.119 | 0.142 | 96 | 2240 |
| 1 | 25 | 4 | STCC | 0.734 | 0.936 | 0.112 | 0.135 | 127 | 3500 |
| 1 | 35 | 6 | STCC | 0.529 | 0.675 | 0.109 | 0.131 | 157 | 4900 |
| 1 | 50 | 10 | STCC | 0.391 | 0.499 | 0.106 | 0.128 | 196 | 7000 |
| 1 | 70 | 10 | STCC | 0.27 | 0.344 | 0.101 | 0.121 | 242 | 9800 |
| 1 | 95 | 10 | STCC | 0.195 | 0.249 | 0.098 | 0.117 | 293 | 13300 |
| 1 | 120 | 10 | STCC | 0.154 | 0.196 | 0.095 | 0.114 | 339 | 16800 |
| 1 | 150 | 16 | STCC | 0.126 | 0.161 | 0.094 | 0.113 | 389 | 21000 |
| 1 | 185 | 16 | STCC | 0.1 | 0.128 | 0.092 | 0.111 | 444 | 25900 |
| 1 | 240 | 16 | STCC | 0.0762 | 0.0972 | 0.09 | 0.108 | 522 | 33600 |
| 1 | 300 | 16 | STCC | 0.0607 | 0.0774 | 0.088 | 0.106 | 601 | 42000 |
| 1 | 400 | 25 | STCC | 0.0475 | 0.0606 | 0.088 | 0.105 | 690 dc / 670 ac | 56000 |
| 1 | 500 | 35 | STCC | 0.0369 | 0.0471 | 0.086 | 0.103 | 780 dc / 720 ac | 70000 |
| 1 | 630 | 35 | STCC | 0.0286 | 0.0365 | 0.084 | 0.101 | 890 dc / 780 ac | 88200 |
| 2 | 1.5 | 4 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 20 | 210 |
| 3 | 1.5 | 4 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 16 | 210 |
| 4 | 1.5 | 6 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 16 | 210 |
| 5 | 1.5 | 6 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 13.5 | 210 |
| 7 | 1.5 | 6 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 12 | 210 |
| 12 | 1.5 | 10 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 10 | 210 |
| 19 | 1.5 | 10 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 8.5 | 210 |
| 27 | 1.5 | 16 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 7.5 | 210 |
| 37 | 1.5 | 16 | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 7 | 210 |

All BFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor type 2 | Max. conductor resistance at 20°C, Ohm/km | Max. conductor resistance at 90°C, Ohm/km | Reactance at 50Hz, Ohm/km | Reactance at 60Hz, Ohm/km | Current rating IEC 60092-352 Table B.4, Ampere | Short circuit rating 1 second, Ampere |
|--------------------|-------------------------------------|---|------------------|---|---|---------------------------|---------------------------|--|---------------------------------------|
| 3G | 1.5 | - | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 20 | 210 |
| 4G | 1.5 | - | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 16 | 210 |
| 5G | 1.5 | - | STCC | 12.2 | 15.6 | 0.115 | 0.138 | 16 | 210 |
| 2 | 2.5 | 4 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 26 | 350 |
| 3 | 2.5 | 6 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 21 | 350 |
| 5 | 2.5 | 6 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 17.5 | 350 |
| 4 | 2.5 | 6 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 21 | 350 |
| 7 | 2.5 | 10 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 15.5 | 350 |
| 12 | 2.5 | 10 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 13 | 350 |
| 19 | 2.5 | 16 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 11 | 350 |
| 27 | 2.5 | 16 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 10 | 350 |
| 37 | 2.5 | 16 | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 9 | 350 |
| 3G | 2.5 | - | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 26 | 350 |
| 4G | 2.5 | - | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 21 | 350 |
| 5G | 2.5 | - | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 21 | 350 |
| 7G | 2.5 | - | STCC | 7.56 | 9.64 | 0.107 | 0.129 | 16.5 | 350 |
| 2 | 4 | 6 | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 34 | 560 |
| 3 | 4 | 6 | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 28 | 560 |
| 4 | 4 | 6 | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 28 | 560 |
| 5 | 4 | 6 | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 23.5 | 560 |
| 3G | 4 | - | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 34 | 560 |
| 4G | 4 | - | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 28 | 560 |
| 5G | 4 | - | STCC | 4.7 | 5.99 | 0.100 | 0.120 | 28 | 560 |
| 2 | 6 | 6 | STCC | 3.11 | 3.97 | 0.094 | 0.113 | 44 | 840 |
| 3 | 6 | 6 | STCC | 3.11 | 3.97 | 0.094 | 0.113 | 36 | 840 |
| 4 | 6 | 10 | STCC | 3.11 | 3.97 | 0.094 | 0.113 | 36 | 840 |
| 3G | 6 | - | STCC | 3.11 | 3.97 | 0.094 | 0.113 | 44 | 840 |
| 4G | 6 | - | STCC | 3.11 | 3.97 | 0.094 | 0.113 | 36 | 840 |
| 5G | 6 | - | STCC | 3.11 | 3.97 | 0.094 | 0.113 | 36 | 840 |
| 2 | 10 | 10 | STCC | 1.84 | 2.35 | 0.088 | 0.105 | 61 | 1400 |
| 3 | 10 | 10 | STCC | 1.84 | 2.35 | 0.088 | 0.105 | 50 | 1400 |
| 4 | 10 | 10 | STCC | 1.84 | 2.35 | 0.088 | 0.105 | 50 | 1400 |
| 3G | 10 | - | STCC | 1.84 | 2.35 | 0.088 | 0.105 | 61 | 1400 |
| 4G | 10 | - | STCC | 1.84 | 2.35 | 0.088 | 0.105 | 50 | 1400 |
| 5G | 10 | - | STCC | 1.84 | 2.35 | 0.088 | 0.105 | 50 | 1400 |
| 2 | 16 | 16 | STCC | 1.16 | 1.48 | 0.083 | 0.099 | 82 | 2240 |
| 3 | 16 | 16 | STCC | 1.16 | 1.48 | 0.083 | 0.099 | 67 | 2240 |
| 4 | 16 | 16 | STCC | 1.16 | 1.48 | 0.083 | 0.099 | 67 | 2240 |
| 3G | 16 | - | STCC | 1.16 | 1.48 | 0.083 | 0.099 | 82 | 2240 |
| 4G | 16 | - | STCC | 1.16 | 1.48 | 0.083 | 0.099 | 67 | 2240 |
| 5G | 16 | - | STCC | 1.16 | 1.48 | 0.083 | 0.099 | 67 | 2240 |
| 2 | 25 | 16 | STCC | 0.734 | 0.936 | 0.082 | 0.098 | 108 | 3500 |
| 3 | 25 | 16 | STCC | 0.734 | 0.936 | 0.082 | 0.098 | 89 | 3500 |
| 4 | 25 | 16 | STCC | 0.734 | 0.936 | 0.082 | 0.098 | 89 | 3500 |
| 3G | 25 | - | STCC | 0.734 | 0.936 | 0.082 | 0.098 | 108 | 3500 |
| 4G | 25 | - | STCC | 0.734 | 0.936 | 0.082 | 0.098 | 89 | 3500 |
| 5G | 25 | - | STCC | 0.734 | 0.936 | 0.082 | 0.098 | 89 | 3500 |

All BFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor type 2 | Max. conductor resistance at 20°C, Ohm/km | Max. conductor resistance at 90°C, Ohm/km | Reactance at 50Hz, Ohm/km | Reactance at 60Hz, Ohm/km | Current rating IEC 60092-352 Table B.4, Ampere | Short circuit rating 1 second, Ampere |
|--------------------|-------------------------------------|---|------------------|---|---|---------------------------|---------------------------|--|---------------------------------------|
| 2 | 35 | 16 | STCC | 0.529 | 0.675 | 0.079 | 0.095 | 133 | 4900 |
| 3 | 35 | 16 | STCC | 0.529 | 0.675 | 0.079 | 0.095 | 110 | 4900 |
| 4 | 35 | 16 | STCC | 0.529 | 0.675 | 0.079 | 0.095 | 110 | 4900 |
| 3G | 35 | - | STCC | 0.529 | 0.675 | 0.079 | 0.095 | 133 | 4900 |
| 4G | 35 | - | STCC | 0.529 | 0.675 | 0.079 | 0.095 | 110 | 4900 |
| 5G | 35 | - | STCC | 0.529 | 0.675 | 0.079 | 0.095 | 110 | 4900 |
| 2 | 50 | 25 | STCC | 0.391 | 0.499 | 0.078 | 0.094 | 167 | 7000 |
| 3 | 50 | 25 | STCC | 0.391 | 0.499 | 0.078 | 0.094 | 137 | 7000 |
| 4 | 50 | 25 | STCC | 0.391 | 0.499 | 0.078 | 0.094 | 137 | 7000 |
| 4G | 50 | - | STCC | 0.391 | 0.499 | 0.078 | 0.094 | 137 | 7000 |
| 5G | 50 | - | STCC | 0.391 | 0.499 | 0.078 | 0.094 | 137 | 7000 |
| 2 | 70 | 35 | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 206 | 9800 |
| 3 | 70 | 35 | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 169 | 9800 |
| 4 | 70 | 35 | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 169 | 9800 |
| 5 | 70 | 35 | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 169 | 9800 |
| 3G | 70 | - | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 206 | 9800 |
| 4G | 70 | - | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 169 | 9800 |
| 5G | 70 | - | STCC | 0.27 | 0.344 | 0.075 | 0.090 | 169 | 9800 |
| 2 | 95 | 50 | STCC | 0.195 | 0.249 | 0.075 | 0.090 | 249 | 13300 |
| 3 | 95 | 50 | STCC | 0.195 | 0.249 | 0.075 | 0.090 | 205 | 13300 |
| 4 | 95 | 50 | STCC | 0.195 | 0.249 | 0.075 | 0.090 | 205 | 13300 |
| 3G | 95 | - | STCC | 0.195 | 0.249 | 0.075 | 0.090 | 249 | 13300 |
| 4G | 95 | - | STCC | 0.195 | 0.249 | 0.075 | 0.090 | 205 | 13300 |
| 5G | 95 | - | STCC | 0.195 | 0.249 | 0.075 | 0.090 | 205 | 13300 |
| 2 | 120 | 60 | STCC | 0.154 | 0.196 | 0.073 | 0.088 | 288 | 16800 |
| 3 | 120 | 60 | STCC | 0.154 | 0.196 | 0.073 | 0.088 | 237 | 16800 |
| 4 | 120 | 60 | STCC | 0.154 | 0.196 | 0.073 | 0.088 | 237 | 16800 |
| 4G | 120 | - | STCC | 0.154 | 0.196 | 0.073 | 0.088 | 237 | 16800 |
| 5G | 120 | - | STCC | 0.154 | 0.196 | 0.073 | 0.088 | 237 | 16800 |
| 4G | 150 | - | STCC | 0.126 | 0.161 | 0.073 | 0.088 | 272 | 21000 |
| 5G | 150 | - | STCC | 0.126 | 0.161 | 0.073 | 0.088 | 272 | 21000 |
| 4G | 185 | - | STCC | 0.1 | 0.128 | 0.073 | 0.088 | 311 | 25900 |

Ambient temperature correction factors

| Ambient Temp °C | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
|-----------------|------|------|------|------|------|------|------|------|------|------|
| Rating factor | 1.10 | 1.05 | 1.00 | 0.94 | 0.88 | 0.82 | 0.74 | 0.67 | 0.58 | 0.47 |

Installation recommendations

| Minimum Bending Radius during Installation | Minimum Bending Radius Fixed Installed | Maximum Tensile Load During Installation | Minimum Installation Temperature |
|--|--|---|----------------------------------|
| 8 x D | 6 x D | 50 N x total cross section (mm ²) of conductors | -20°C |

All BFOU 1kV cables are redesigned and the dimensional data on the following pages are valid for cables having Production No. 82966331 and higher.

Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

Fire resistant, flame retardant halogen-free power cable. Double braided.

BFOU 0,6/1(1,2)kV

MGT/EPR/EPR/TCWB/EVA

BFOU 1kV NEK TS 606 Code P105
 BFOU M 1kV NEK TS 606 Code P5/P12/P105

Operating temperature : 90°C
 Operating Voltage : 0,6/1(1,2)kV

Standards applied

| | |
|----------------------|-------------------|
| IEC 60092-353 | - Design |
| IEC 60228 class 2 | - Conductor |
| IEC 60092-360 | - Insulation |
| IEC 60092-360 | - Sheath |
| IEC 60332-1-2 | - Flame Retardant |
| IEC 60332-3-22 | - Flame Retardant |
| IEC 60331-1, -2, -21 | - Fire Resistant |
| IEC 60754-1,2 | - Halogen Free |
| IEC 61034-1,2 | - Low Smoke |

Application

Fixed installation for power, control and lighting in both EX (Zone 0, 1 & 2)- and safe areas, emergency and critical systems where requirement for fire resistance exists.

BFOU M 1kV for installation in areas exposed to MUD and drilling/cleaning fluids. Meets the MUD resistance requirement in NEK TS 606:2016.

Construction

| | Code Letter | |
|---------------------------------|-------------|--|
| Conductor | | Tinned annealed stranded circular copper (STCC), IEC 60228 class 2 |
| Insulation | B | Mica-tape + EP-rubber, IEC 60092-360 (EPR) |
| Lay up / Shielding | | Cores laid up in concentric layers |
| Inner covering | F | Flame retardant and halogen-free extruded compound |
| Tape over inner covering | | PET tape + rubberized Polyamide tape |
| Armour/screen | O | Two layers of tinned copper wire braid (double braid) |
| Tape over armour/screen | | PET tape + rubberized Polyamide tape |
| Outer sheath | U | Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360) |
| Marking text (example) | | "meter" "year/week" DRAKA 01 Part no. <SAP code> BFOU M 0,6/1kV P5/P12/P105 3 x 240/120 mm ² FLEX - FLAME IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22 Production no. <Prod.ordre no.> |
| Manufacturing unit | | DRAKA 01 = Draka Norsk Kabel |
| Outer sheath colour | | Black |

*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm
 **) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes

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Subject to change without prior notice

FlexFlame BFOU 1kV P5/P12/P105 Power cable

Core identification power cables

Single core - Black

Two cores - Blue - Brown

Three cores - Brown - Black - Grey

Four cores - Blue - Brown - Black - Grey

Five cores - Blue - Brown - Black - Grey - Black

Seven cores and above - White with black numbers

Two cores + earth (3G) - Yellow/green - Blue - Brown

Three cores + earth (4G) - Yellow/green - Brown - Black - Grey

Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey

G / X in cable description - G = One of the cores are yellow/green - X = no yellow/green core

Core identification - to HD308S2 - and IEC 60445 Ed 5.0 2010-08

Range and dimensions

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor Diameter, mm | Insulation Thickness, mm | Thickness Inner covering, mm | Diameter inner covering, mm | Diameter Braid Wire, mm | Mechanical cross-section of the braid, mm ² | Thickness Outer Sheath, mm | Diameter outer sheath, mm | Weight of Cable Approx. (Kg/Km) | Copper content Approx. (kg/km) |
|--------------------|-------------------------------------|---|------------------------|--------------------------|------------------------------|-----------------------------|-------------------------|--|----------------------------|---------------------------|---------------------------------|--------------------------------|
| 3 | 150 | 75 | 15.45 | 1.8 | 1.4 | 44.5 ± 2 | 0.4 | 90.5 | 2.6 | 52 ± 2.5 | 7075 | 4745 |
| 4 | 150 | 75 | 15.45 | 1.8 | 1.4 | 49.5 ± 2 | 0.5 | 99 | 2.8 | 58 ± 2.5 | 8880 | 6128 |
| 3 | 185 | 95 | 17.3 | 2.0 | 1.4 | 49.5 ± 2 | 0.5 | 113 | 2.7 | 57.5 ± 3 | 8700 | 5917 |
| 4 | 185 | 95 | 17.3 | 2.0 | 1.4 | 55 ± 2.5 | 0.61 | 113 | 3 | 63.5 ± 3 | 10820 | 7539 |
| 3 | 240 | 120 | 19.85 | 2.2 | 1.4 | 56 ± 2.5 | 0.61 | 147.2 | 3 | 65.5 ± 3 | 11340 | 7825 |

Ordering information

| Part number | Description | Sheath Colour | GTIN 1m | EL No. |
|-------------|---|---------------|---------------|---------|
| 20109444 | BFOU M 1kV 3X 150/75mm ² P5/P12/P105 BK | BLACK | 7021528003024 | 1043652 |
| 20117948 | BFOU M 1kV 4X 150/75mm ² P5/P12/P105 BK | BLACK | 7021528003093 | - |
| 20110765 | BFOU M 1kV 3X 185/95mm ² P5/P12/P105 BK | BLACK | 7021528003925 | - |
| 20118466 | BFOU M 1kV 4X 185/95mm ² P5/P12/P105 BK | BLACK | 7021528003918 | - |
| 20164029 | BFOU M 1kV 3X 240/120mm ² P5/P12/P105 BK | BLACK | 7021528003147 | - |

Electrical values power cables

| Number of elements | Cross section core, mm ² | Electrical Cross section braid, mm ² | Conductor type | Max. conductor resistance at 20°C, Ohm/km | Max. conductor resistance at 90°C, Ohm/km | Reactance at 50Hz, Ohm/km | Reactance at 60Hz, Ohm/km | Current rating IEC 60092-352 Table B.4, Ampere | Short circuit rating 1 second, Ampere |
|--------------------|-------------------------------------|---|----------------|---|---|---------------------------|---------------------------|--|---------------------------------------|
| 3 | 150 | 75 | KGTFR | 0.126 | 0.161 | 0.073 | 0.088 | 272 | 21000 |
| 4 | 150 | 75 | KGTFR | 0.126 | 0.161 | 0.073 | 0.088 | 272 | 21000 |
| 3 | 185 | 95 | KGTFR | 0.1 | 0.128 | 0.073 | 0.088 | 311 | 25900 |
| 4 | 185 | 95 | KGTFR | 0.1 | 0.128 | 0.073 | 0.088 | 311 | 25900 |
| 3 | 240 | 120 | KGTFR | 0.0762 | 0.0972 | 0.073 | 0.087 | 365 | 33600 |

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FlexFlame BFOU 1kV P5/P12/P105 Power cable

Ambient temperature correction factors

| | | | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|
| Ambient Temp °C | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 |
| Rating factor | 1.10 | 1.05 | 1.00 | 0.94 | 0.88 | 0.82 | 0.74 | 0.67 | 0.58 | 0.47 |

Installation recommendations

| Minimum Bending Radius during Installation | Minimum Bending Radius Fixed Installed | Maximum Tensile Load During Installation | Minimum Installation Temperature |
|--|--|---|----------------------------------|
| 8 x D | 6 x D | 50 N x total cross section (mm ²) of conductors | -20°C |

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