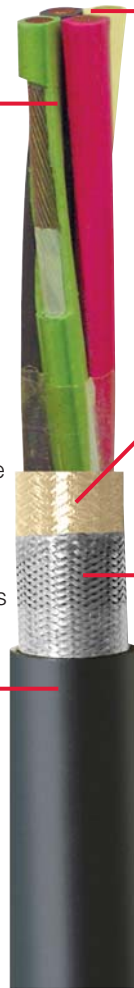


# BFOU P5 0.6/1kV Power and Control Cable – SHF2

Fire Resistant • Halogen-Free • Mud Resistant • Rated 90°C



### Insulation

Fire resistant tape  
low smoke halogen-free  
EP meeting  
IEC 60092-351

### Core Identification:

2 Core: White - Black  
3 Core: White - Black -  
Red or  
Green/Yellow  
4 Core: White - Black -  
Red - Light Blue  
or Green/Yellow  
5 Core and above:  
Solid color with  
printed numbers

### Outer Sheath

Low smoke halogen-  
free flame retardant  
compound meeting  
IEC 60092-359  
Type SHF-2/SHF Mud

*Standard sheath color  
is black. Blue sheath is  
available for intrinsically  
safe installations.*

### Conductor

Flexible Class 5  
(for sizes up to 35 sq.  
mm) or Class 2 (for sizes  
50 sq. mm and larger)  
tinned copper per  
IEC 60228

Constructions also available  
with yellow-green ground.  
Add "E" to end of Part No.

### Bedding

Low smoke halogen-free  
polyolefin bedding  
meeting IEC 60092-353

### Armor

Basket weave  
tinned copper wire  
armor per  
IEC 6009-353

### Application

Designed for power, control and lighting  
systems in EX or safe areas.

### Features

- Meets IEC 60092-350, IEC 60092-351,  
IEC 60092-353 AND IEC 60092-359
- Fire resistant: IEC 60331
- Flame retardant: IEC 60332-3 Cat A
- Low smoke: IEC 61034-2
- Acidity: IEC 60754-2
- Halogen-free: 60754-1
- Stranding: Highly flexible strand count  
Class 5 (metric) conductors for sizes  
up to 35 sq. mm. For sizes larger than  
50 sq. mm, Class 2 strand is used.
- Mud resistance: Meets NEK606 for  
Type SHF Mud (meets Annex G of  
IEC 60092-350)

### Ratings & Approvals

- 90°C Temperature Rating
- American Bureau of Shipping (ABS) BT367739
- Det Norske Veritas (DNV)
- Lloyd's Register of Shipping (LRS) (pending)

### Hawke Gland Types

See Page 1

### Stranding Profile

See Page 1

| Size<br>mm2 | SHF2<br>Part No.* | Diameter<br>Over Ins.<br>(in) | Diameter<br>Over Ins.<br>(mm) | Diameter<br>Over<br>Bedding (in) | Diameter<br>Over<br>Bedding (mm) | Overall<br>Cable Dia.<br>(in) | Overall<br>Cable Dia.<br>(mm) | Cable<br>Weight<br>(lbs/kft) | Cable<br>Weight<br>(kg/km) | Ampacity @<br>90°C Cond.<br>45°C Ambient | Max DC<br>Res. @ 20°C<br>(ohms/km) | Inductive<br>Reactance<br>@ 60Hz<br>(ohms/km) |
|-------------|-------------------|-------------------------------|-------------------------------|----------------------------------|----------------------------------|-------------------------------|-------------------------------|------------------------------|----------------------------|--|------------------------------------|---|
| 1 x 16      | 3411310109        | 0.345                         | 8.76                          | 0.432                            | 10.97                            | 0.600                         | 15.24                         | 295                          | 439                        | 96                                       | 1.240                              | 0.142   |
| 1 x 25      | 3411310110        | 0.420                         | 10.67                         | 0.503                            | 12.78                            | 0.678                         | 17.22                         | 412                          | 613                        | 127                                      | 0.795                              | 0.136   |
| 1 x 35      | 3411310111        | 0.450                         | 11.43                         | 0.547                            | 13.89                            | 0.726                         | 18.44                         | 488                          | 726                        | 157                                      | 0.565                              | 0.131   |
| 1 x 50      | 3411310112        | 0.507                         | 12.88                         | 0.594                            | 15.09                            | 0.777                         | 19.74                         | 617                          | 918                        | 196                                      | 0.391                              | 0.124   |
| 1 x 70      | 3411310113        | 0.552                         | 14.02                         | 0.639                            | 16.23                            | 0.824                         | 20.93                         | 727                          | 1082                       | 242                                      | 0.270                              | 0.120   |
| 1 x 95      | 3411310114        | 0.637                         | 16.18                         | 0.732                            | 18.59                            | 0.925                         | 23.50                         | 959                          | 1427                       | 293                                      | 0.195                              | 0.117   |
| 1 x 120     | 3411310115        | 0.698                         | 17.73                         | 0.785                            | 19.94                            | 0.976                         | 24.79                         | 1136                         | 1690                       | 339                                      | 0.154                              | 0.112   |
| 1 x 150     | 3411310116        | 0.790                         | 20.07                         | 0.878                            | 22.30                            | 1.083                         | 27.51                         | 1409                         | 2096                       | 389                                      | 0.126                              | 0.111   |
| 1 x 185     | 3411310117        | 0.857                         | 21.77                         | 0.944                            | 23.98                            | 1.157                         | 29.39                         | 1661                         | 2471                       | 444                                      | 0.100                              | 0.111   |
| 1 x 240     | 3411310118        | 0.971                         | 24.66                         | 1.058                            | 26.87                            | 1.279                         | 32.49                         | 2096                         | 3119                       | 522                                      | 0.0762                             | 0.107   |
| 1 x 300     | 3411310119        | 1.077                         | 27.36                         | 1.181                            | 30.00                            | 1.427                         | 36.25                         | 2653                         | 3947                       | 601                                      | 0.0607                             | 0.108   |
| 2 x 1.5/5   | 3411310204        | 0.152                         | 3.86                          | 0.389                            | 9.88                             | 0.549                         | 13.94                         | 196                          | 292                        | 20                                       | 13.70                              | 0.147   |
| 2 x 2.5/7   | 3411310205        | 0.174                         | 4.42                          | 0.427                            | 10.85                            | 0.589                         | 14.96                         | 239                          | 356                        | 26                                       | 8.21                               | 0.136   |
| 2 x 4/7     | 3411310206        | 0.197                         | 5.00                          | 0.479                            | 12.17                            | 0.654                         | 16.61                         | 294                          | 437                        | 34                                       | 5.09                               | 0.129   |
| 2 x 6/9     | 3411310207        | 0.218                         | 5.54                          | 0.521                            | 13.23                            | 0.698                         | 17.73                         | 362                          | 539                        | 44                                       | 3.39                               | 0.119   |
| 2 x 10/11   | 3411310208        | 0.277                         | 7.04                          | 0.657                            | 16.69                            | 0.846                         | 21.49                         | 509                          | 757                        | 61                                       | 1.95                               | 0.104   |
| 2 x 16/16   | 3411310209        | 0.345                         | 8.76                          | 0.769                            | 19.53                            | 0.967                         | 24.56                         | 685                          | 1019                       | 82                                       | 1.24                               | 0.100   |
| 2 x 25/16   | 3411310210        | 0.420                         | 10.67                         | 0.928                            | 23.57                            | 1.119                         | 28.42                         | 956                          | 1422                       | 108                                      | 0.795                              | 0.100   |

\* Black sheath is standard. For Blue sheath, put "BL" at end of Part Number (example: 3411310109BL)  
For yellow-green ground, add "E" to end of Part Number (example: 3409310109-e)

# SHF2 BFOU P5 Power and Control Cable

See page 1 for Ampacity Ratings, Bend Radius, Stranding Profile and Hawke Gland Types.

| Size mm2     | SHF2 Part No.* | Diameter Over Ins. (in) | Diameter Over Ins. (mm) | Diameter Over Bedding (in) | Diameter Over Bedding (mm) | Overall Cable Dia. (in) | Overall Cable Dia. (mm) | Cable Weight (lbs/kft) | Cable Weight (kg/km) | Ampacity @ 90°C Cond. 45°C Ambient | Max DC Res. @ 20°C (ohms/km) | Inductive Reactance @ 60Hz (ohms/km) |
|--------------|----------------|-------------------------|-------------------------|----------------------------|----------------------------|-------------------------|-------------------------|------------------------|----------------------|------------------------------------|------------------------------|--------------------------------------|
| 3 x 1.5/5    | 3411310304     | 0.152                   | 3.86                    | 0.412                      | 10.46                      | 0.574                   | 14.58                   | 221                    | 329                  | 16                                 | 13.70                        | 0.147                                |
| 3 x 2.5/7    | 3411310305     | 0.174                   | 4.42                    | 0.453                      | 11.51                      | 0.619                   | 15.72                   | 267                    | 397                  | 21                                 | 8.21                         | 0.136                                |
| 3 x 4/7      | 3411310306     | 0.197                   | 5.00                    | 0.509                      | 12.93                      | 0.679                   | 17.25                   | 338                    | 503                  | 28                                 | 5.09                         | 0.129                                |
| 3 x 6/9      | 3411310307     | 0.218                   | 5.54                    | 0.555                      | 17.81                      | 0.727                   | 18.47                   | 398                    | 592                  | 36                                 | 3.39                         | 0.119                                |
| 3 x 10/11    | 3411310308     | 0.277                   | 7.04                    | 0.701                      | 20.88                      | 0.901                   | 22.89                   | 603                    | 897                  | 50                                 | 1.95                         | 0.104                                |
| 3 x 16/16    | 3411310309     | 0.345                   | 8.76                    | 0.822                      | 25.10                      | 1.007                   | 25.58                   | 812                    | 1208                 | 67                                 | 1.24                         | 0.100                                |
| 3 x 25/16    | 3411310310     | 0.420                   | 10.67                   | 0.988                      | 26.85                      | 1.202                   | 30.53                   | 1206                   | 1794                 | 89                                 | 0.795                        | 0.100                                |
| 3 x 35/16    | 3411310311     | 0.460                   | 11.68                   | 1.057                      | 27.84                      | 1.274                   | 32.36                   | 1413                   | 2102                 | 110                                | 0.565                        | 0.098                                |
| 3 x 50/25    | 3411310312     | 0.507                   | 12.88                   | 1.197                      | 30.40                      | 1.443                   | 36.65                   | 1982                   | 2949                 | 137                                | 0.391                        | 0.093                                |
| 3 x 70/35    | 3411310313     | 0.552                   | 14.02                   | 1.293                      | 32.84                      | 1.550                   | 39.37                   | 2664                   | 3964                 | 169                                | 0.270                        | 0.092                                |
| 3 x 95/50    | 3411310314     | 0.637                   | 16.18                   | 1.476                      | 37.49                      | 1.750                   | 44.45                   | 3208                   | 4773                 | 205                                | 0.195                        | 0.091                                |
| 3 x 120      | 3411310315     | 0.698                   | 17.73                   | 1.608                      | 40.84                      | 1.869                   | 47.47                   | 3719                   | 5533                 | 237                                | 0.154                        | 0.088                                |
| 3 x 120+70E  | 3411310315E    | 0.698                   | 17.73                   | 1.805                      | 45.85                      | 2.100                   | 53.34                   | 4809                   | 7155                 | 237                                | 0.154                        | 0.088                                |
| 3 x 150      | 3411310316     | 0.790                   | 20.07                   | 1.824                      | 46.33                      | 2.100                   | 53.34                   | 4669                   | 6947                 | 272                                | 0.126                        | 0.090                                |
| 3 x 150+85E  | 3411310316E    | 0.790                   | 20.07                   | 2.046                      | 51.97                      | 2.359                   | 59.92                   | 6046                   | 8996                 | 272                                | 0.126                        | 0.090                                |
| 3 x 185      | 3411310317     | 0.857                   | 21.77                   | 1.985                      | 50.42                      | 2.294                   | 58.27                   | 5688                   | 8463                 | 311                                | 0.100                        | 0.089                                |
| 3 x 185+95E  | 3411310317E    | 0.857                   | 21.77                   | 2.207                      | 56.06                      | 2.534                   | 64.36                   | 7163                   | 10658                | 311                                | 0.100                        | 0.089                                |
| 3 x 240      | 3411310318     | 0.971                   | 24.66                   | 2.230                      | 56.64                      | 2.560                   | 65.02                   | 7233                   | 10747                | 365                                | 0.0762                       | 0.087                                |
| 3 x 240+120E | 3411310318E    | 0.971                   | 24.66                   | 2.482                      | 63.04                      | 2.832                   | 71.93                   | 9092                   | 13528                | 365                                | 0.0762                       | 0.087                                |
| 4 x 1.5/7    | 3411310404     | 0.152                   | 3.86                    | 0.452                      | 11.48                      | 0.624                   | 15.85                   | 162                    | 241                  | 16                                 | 13.70                        | 0.156                                |
| 4 x 2.5/7    | 3411310405     | 0.174                   | 4.42                    | 0.493                      | 12.52                      | 0.661                   | 16.79                   | 319                    | 475                  | 21                                 | 8.21                         | 0.145                                |
| 4 x 4/9      | 3411310406     | 0.197                   | 5.00                    | 0.561                      | 14.25                      | 0.741                   | 18.82                   | 394                    | 586                  | 28                                 | 5.09                         | 0.138                                |
| 4 x 6/9      | 3411310407     | 0.218                   | 5.54                    | 0.611                      | 15.52                      | 0.975                   | 20.22                   | 483                    | 719                  | 36                                 | 3.39                         | 0.127                                |
| 4 x 10/11    | 3411310408     | 0.277                   | 7.04                    | 0.775                      | 19.69                      | 1.119                   | 24.77                   | 743                    | 1106                 | 50                                 | 1.95                         | 0.113                                |
| 4 x 16/16    | 3411310409     | 0.345                   | 8.76                    | 0.911                      | 23.14                      | 1.303                   | 28.42                   | 1104                   | 1643                 | 67                                 | 1.24                         | 0.109                                |
| 4 x 25/16    | 3411310410     | 0.420                   | 10.67                   | 1.101                      | 27.97                      | 1.424                   | 33.10                   | 1439                   | 2141                 | 89                                 | 0.795                        | 0.108                                |
| 4 x 35/16    | 3411310411     | 0.460                   | 11.68                   | 1.191                      | 30.25                      | 1.450                   | 36.17                   | 1752                   | 2607                 | 110                                | 0.565                        | 0.105                                |
| 4 x 50/25    | 3411310412     | 0.541                   | 13.74                   | 1.328                      | 33.73                      | 1.587                   | 40.31                   | 2453                   | 3650                 | 137                                | 0.391                        | 0.110                                |
| 4 x 70/35    | 3411310413     | 0.614                   | 15.60                   | 1.436                      | 36.47                      | 1.700                   | 43.18                   | 2923                   | 4349                 | 169                                | 0.270                        | 0.111                                |
| 4 x 95/50    | 3411310414     | 0.704                   | 17.88                   | 1.658                      | 42.11                      | 1.940                   | 49.28                   | 3933                   | 5852                 | 205                                | 0.195                        | 0.109                                |
| 4 x 120/60   | 3411310415     | 0.797                   | 20.24                   | 1.805                      | 45.85                      | 2.117                   | 53.77                   | 4906                   | 7300                 | 237                                | 0.154                        | 0.110                                |
| 5 x 1.5/7    | 3411310504     | 0.152                   | 3.86                    | 0.497                      | 12.62                      | 0.674                   | 17.12                   | 301                    | 448                  | -                                  | 13.70                        | -                                    |
| 7 x 1.5/9    | 3411310704     | 0.152                   | 3.86                    | 0.540                      | 13.72                      | 0.721                   | 18.31                   | 349                    | 519                  | -                                  | 13.70                        | -                                    |
| 12 x 1.5/11  | 3411311204     | 0.152                   | 3.86                    | 0.717                      | 18.21                      | 0.913                   | 23.19                   | 542                    | 806                  | -                                  | 13.70                        | -                                    |
| 19 x 1.5/11  | 3411311904     | 0.152                   | 3.86                    | 0.846                      | 21.49                      | 1.041                   | 26.44                   | 737                    | 1097                 | -                                  | 13.70                        | -                                    |
| 24 x 1.5/16  | 3411312404     | 0.152                   | 3.86                    | 0.996                      | 25.30                      | 1.201                   | 30.51                   | 1046                   | 1556                 | -                                  | 13.70                        | -                                    |
| 27 x 1.5/16  | 3411312704     | 0.152                   | 3.86                    | 1.038                      | 26.37                      | 1.263                   | 32.08                   | 1114                   | 1658                 | -                                  | 13.70                        | -                                    |
| 37 x 1.5/16  | 3411313704     | 0.152                   | 3.86                    | 1.170                      | 29.72                      | 1.401                   | 35.59                   | 1298                   | 1931                 | -                                  | 13.70                        | -                                    |
| 5 x 2.5/9    | 3411310505     | 0.174                   | 4.42                    | 0.547                      | 13.89                      | 0.727                   | 18.47                   | 366                    | 545                  | -                                  | 8.21                         | -                                    |
| 7 x 2.5/9    | 3411310705     | 0.174                   | 4.42                    | 0.597                      | 15.16                      | 0.774                   | 19.66                   | 423                    | 629                  | -                                  | 8.21                         | -                                    |
| 12 x 2.5/11  | 3411311205     | 0.174                   | 4.42                    | 0.794                      | 20.17                      | 0.996                   | 25.30                   | 665                    | 989                  | -                                  | 8.21                         | -                                    |
| 19 x 2.5/16  | 3411311905     | 0.174                   | 4.42                    | 0.937                      | 23.80                      | 1.139                   | 28.93                   | 903                    | 1344                 | -                                  | 8.21                         | -                                    |
| 24 x 2.5/16  | 3411312405     | 0.174                   | 4.42                    | 1.126                      | 28.60                      | 1.341                   | 34.06                   | 1156                   | 1720                 | -                                  | 8.21                         | -                                    |
| 27 x 2.5/16  | 3411312705     | 0.174                   | 4.42                    | 1.151                      | 29.24                      | 1.384                   | 35.15                   | 1227                   | 1826                 | -                                  | 8.21                         | -                                    |
| 37 x 2.5/16  | 3411313705     | 0.174                   | 4.42                    | 1.294                      | 32.87                      | 1.542                   | 39.17                   | 1612                   | 2398                 | -                                  | 8.21                         | -                                    |

For yellow-green ground, add “-e” to end of Part #.

