



# Draka

# BS5467

## Draka BS5467 - Armoured Low Voltage Energy Cable

Draka BS5467 is the low voltage armoured power cable for industrial wiring and mains distribution. Designed for installation in duct, clipped directly to a surface, on tray, in basket or in free air they may also be laid direct in ground in free draining soil or embedded in concrete. The design of Draka BS5467 is particularly robust and is well suited to areas at risk of mechanical damage.



### Construction

|                                |   |
|--------------------------------|---|
| <b>Manufacturing standard:</b> | BS5467  |
| <b>Conductors:</b>             | Stranded plain annealed copper wire (class 2) to BS EN 60228.   |
| <b>Insulation:</b>             | XLPE  |
| <b>Bedding:</b>                | PVC   |
| <b>Armour:</b>                 | Galvanised Steel Wire Armour (Aluminium Wire Armour for single core)  |
| <b>Sheath:</b>                 | PVC   |
| <b>Core colours:</b>           | Single core: Brown or Blue<br>Two core: Brown and Blue<br>Three core: Brown, Black and Grey<br>Four core: Brown, Black, Grey and Blue<br>Five core: Brown, Black, Grey, Blue and Green/Yellow |
| <b>Sheath colour:</b>          | Black   |

### Physical Characteristics

|  |   |
|--|---|
| <b>Voltage rating (U<sub>0</sub>/U):</b> | 600/1000V   |
| <b>Max, conductor temp:</b>              | 90°C<br>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 (see regulation 512-1-5 of BS7671, the 17th Edition of IEE Wiring Regulations) |
| <b>Min, bending radius:</b>              | 6D circular conductors<br>8D shaped conductors  |
| <b>Current rating:</b>                   | Refer to tables 4E4A & 4E4B in BS7671 or ERA 69-30 Part V   |

Other colours are available on request



A brand of the  
**Prysmian  
Group**



Draka



Draka

# BS5467

## Single Core 694AWXLH

| Nominal area of conductor | Armour wire diameter | Approx. diameter under armour | Approx. overall diameter | Approx. cable weight | Maximum conductor resistance |            | Nominal area of armour | Maximum armour resistance at 20°C |
|---------------------------|----------------------|-------------------------------|--------------------------|----------------------|------------------------------|------------|------------------------|-----------------------------------|
|                           |                      |                               |                          |                      | DC at 20°C                   | AC at 90°C |                        |                                   |
| mm <sup>2</sup>           | mm                   | mm                            | mm                       | kg/km                | Ω/km                         | Ω/km       | mm <sup>2</sup>        | Ω/km                              |
| 15*                       | 1.5                  | 17.7                          | 24.2                     | 1540                 | 0.1530                       | 0.1962     | 52                     | 0.61                              |
| 15*                       | 1.6                  | 19.5                          | 26.2                     | 1840                 | 0.1240                       | 0.1594     | 76                     | 0.42                              |
| 15*                       | 1.8                  | 21.6                          | 28.4                     | 2230                 | 0.0991                       | 0.1280     | 84                     | 0.38                              |
| 240*                      | 1.6                  | 23.8                          | 30.6                     | 2800                 | 0.0754                       | 0.0985     | 94                     | 0.34                              |
| 300*                      | 1.6                  | 26.4                          | 33.4                     | 3435                 | 0.0601                       | 0.0797     | 104                    | 0.31                              |
| 400*                      | 2.0                  | 30.1                          | 38.1                     | 4385                 | 0.0470                       | 0.0635     | 147                    | 0.22                              |
| 500*                      | 2.0                  | 33.9                          | 42.1                     | 5535                 | 0.0366                       | 0.0513     | 163                    | 0.20                              |
| 630*                      | 2.0                  | 38.2                          | 46.6                     | 6990                 | 0.0283                       | 0.0419     | 182                    | 0.18                              |
| 800*                      | 2.5                  | 43.4                          | 53.2                     | 9170                 | 0.0221                       | 0.0349     | 260                    | 0.13                              |
| 1000*                     | 2.5                  | 48.3                          | 58.2                     | 11355                | 0.0176                       | 0.0303     | 284                    | 0.12                              |

## Two Core 6942XLH

| Nominal area of conductor | Armour wire diameter | Approx. diameter under armour | Approx. overall diameter | Approx. cable weight | Maximum conductor resistance |            | Nominal area of armour | Maximum armour resistance at 20°C |
|---------------------------|----------------------|-------------------------------|--------------------------|----------------------|------------------------------|------------|------------------------|-----------------------------------|
|                           |                      |                               |                          |                      | DC at 20°C                   | AC at 90°C |                        |                                   |
| mm <sup>2</sup>           | mm                   | mm                            | mm                       | kg/km                | Ω/km                         | Ω/km       | mm <sup>2</sup>        | Ω/km                              |
| 15*                       | 0.9                  | 6.9                           | 10.8                     | 240                  | 12.1                         | 15.428     | 15                     | 10.2                              |
| 15*                       | 0.9                  | 8.2                           | 12.2                     | 305                  | 7.41                         | 9.448      | 17                     | 8.8                               |
| 15*                       | 0.9                  | 9.3                           | 13.3                     | 370                  | 4.61                         | 5.878      | 19                     | 7.9                               |
| 6*                        | 0.9                  | 10.4                          | 14.4                     | 445                  | 3.08                         | 3.927      | 22                     | 7                                 |
| 10*                       | 0.9                  | 12.0                          | 16.2                     | 580                  | 1.83                         | 2.333      | 26                     | 6                                 |
| 16*                       | 1.25                 | 14.1                          | 19.0                     | 870                  | 1.15                         | 1.466      | 42                     | 3.7                               |
| 25                        | 1.25                 | 15.1                          | 20.7                     | 1090                 | 0.727                        | 0.926      | 42                     | 3.7                               |
| 35                        | 1.6                  | 16.7                          | 22.5                     | 1470                 | 0.524                        | 0.6695     | 60                     | 2.6                               |
| 50                        | 1.6                  | 19.2                          | 25.9                     | 1845                 | 0.387                        | 0.494      | 68                     | 2.3                               |
| 70                        | 1.6                  | 22.2                          | 29.0                     | 2385                 | 0.268                        | 0.342      | 80                     | 2                                 |
| 95                        | 2.0                  | 23.8                          | 31.3                     | 3025                 | 0.193                        | 0.2471     | 113                    | 1.4                               |
| 120                       | 2.0                  | 27.2                          | 34.8                     | 3675                 | 0.153                        | 0.1964     | 125                    | 1.3                               |
| 150                       | 2.0                  | 29.7                          | 37.5                     | 4390                 | 0.124                        | 0.1597     | 138                    | 1.2                               |
| 185                       | 2.5                  | 33.1                          | 42.3                     | 5635                 | 0.0991                       | 0.1284     | 191                    | 0.82                              |
| 240                       | 2.5                  | 37.8                          | 47.2                     | 7000                 | 0.0754                       | 0.0989     | 215                    | 0.73                              |
| 300                       | 2.5                  | 42.1                          | 51.7                     | 8480                 | 0.0601                       | 0.0801     | 235                    | 0.67                              |
| 400                       | 2.5                  | 46.9                          | 56.8                     | 10390                | 0.047                        | 0.0641     | 265                    | 0.59                              |

## Three Core 6943XLH

| Nominal area of conductor | Armour wire diameter | Approx. diameter under armour | Approx. overall diameter | Approx. cable weight | Maximum conductor resistance |            | Nominal area of armour | Maximum armour resistance at 20°C |
|---------------------------|----------------------|-------------------------------|--------------------------|----------------------|------------------------------|------------|------------------------|-----------------------------------|
|                           |                      |                               |                          |                      | DC at 20°C                   | AC at 90°C |                        |                                   |
| mm <sup>2</sup>           | mm                   | mm                            | mm                       | kg/km                | Ω/km                         | Ω/km       | mm <sup>2</sup>        | Ω/km                              |
| 15*                       | 0.9                  | 7.4                           | 11.2                     | 265                  | 12.1                         | 15.428     | 16                     | 9.5                               |
| 15*                       | 0.9                  | 8.7                           | 12.7                     | 340                  | 7.41                         | 9.448      | 19                     | 8.2                               |
| 15*                       | 0.9                  | 9.9                           | 13.9                     | 420                  | 4.61                         | 5.878      | 20                     | 7.5                               |
| 6*                        | 0.9                  | 11.1                          | 15.1                     | 510                  | 3.08                         | 3.927      | 23                     | 6.7                               |
| 10*                       | 1.25                 | 12.8                          | 17.7                     | 780                  | 1.83                         | 2.333      | 39                     | 4                                 |
| 16*                       | 1.25                 | 15.1                          | 20.1                     | 1035                 | 1.15                         | 1.466      | 45                     | 3.5                               |
| 25                        | 1.6                  | 18.9                          | 25.2                     | 1715                 | 0.727                        | 0.926      | 62                     | 2.5                               |
| 35*                       | 1.6                  | 21.2                          | 27.7                     | 2120                 | 0.524                        | 0.6695     | 68                     | 2.3                               |
| 50                        | 1.6                  | 22.1                          | 28.8                     | 2410                 | 0.387                        | 0.494      | 78                     | 2                                 |
| 70                        | 1.6                  | 25.3                          | 32.1                     | 3160                 | 0.268                        | 0.342      | 90                     | 1.8                               |
| 95                        | 2.0                  | 28.3                          | 36.0                     | 4100                 | 0.193                        | 0.2471     | 128                    | 1.3                               |
| 120                       | 2.0                  | 31.4                          | 39.3                     | 4980                 | 0.153                        | 0.1964     | 141                    | 1.2                               |
| 150                       | 2.5                  | 35.3                          | 44.3                     | 6340                 | 0.124                        | 0.1597     | 201                    | 0.78                              |
| 185                       | 2.5                  | 39.1                          | 48.3                     | 7590                 | 0.0991                       | 0.1284     | 220                    | 0.71                              |
| 240                       | 2.5                  | 43.9                          | 53.5                     | 9575                 | 0.0754                       | 0.0989     | 250                    | 0.63                              |
| 300                       | 2.5                  | 48.7                          | 58.4                     | 11585                | 0.0601                       | 0.0801     | 269                    | 0.59                              |
| 400                       | 2.5                  | 54.4                          | 64.5                     | 14345                | 0.047                        | 0.0641     | 304                    | 0.52                              |



## Four Core 6944XLH

| Nominal area of conductor | Armour wire diameter | Approx. diameter under armour | Approx. overall diameter | Approx. cable weight | Maximum conductor resistance |            | Nominal area of armour | Maximum armour resistance at 20°C |
|---------------------------|----------------------|-------------------------------|--------------------------|----------------------|------------------------------|------------|------------------------|-----------------------------------|
|                           |                      |                               |                          |                      | DC at 20°C                   | AC at 90°C |                        |                                   |
| mm <sup>2</sup>           | mm                   | mm                            | mm                       | kg/km                | Ω/km                         | Ω/km       | mm <sup>2</sup>        | Ω/km                              |
| 15*                       | 0.9                  | 8.4                           | 11.9                     | 300                  | 12.1                         | 15.428     | 17                     | 8.8                               |
| 15*                       | 0.9                  | 9.5                           | 13.6                     | 385                  | 7.41                         | 9.448      | 20                     | 7.6                               |
| 15*                       | 0.9                  | 10.9                          | 14.9                     | 480                  | 4.61                         | 5.878      | 22                     | 6.9                               |
| 6*                        | 1.25                 | 12.3                          | 17.2                     | 690                  | 3.08                         | 3.927      | 36                     | 4.3                               |
| 10*                       | 1.25                 | 14.2                          | 19.0                     | 920                  | 1.83                         | 2.333      | 42                     | 3.7                               |
| 16*                       | 1.25                 | 15.7                          | 21.8                     | 1240                 | 1.15                         | 1.466      | 50                     | 3.1                               |
| 25*                       | 1.6                  | 21.1                          | 27.4                     | 1890                 | 0.727                        | 0.926      | 70                     | 2.3                               |
| 35*                       | 1.6                  | 23.5                          | 30.1                     | 2425                 | 0.524                        | 0.6695     | 78                     | 2                                 |
| 50                        | 1.6                  | 24.3                          | 31.1                     | 2965                 | 0.387                        | 0.494      | 90                     | 1.8                               |
| 70                        | 2.0                  | 28.5                          | 36.2                     | 4040                 | 0.268                        | 0.342      | 131                    | 1.2                               |
| 95                        | 2.0                  | 32.0                          | 39.9                     | 5170                 | 0.193                        | 0.2471     | 147                    | 1.1                               |
| 120                       | 2.5                  | 35.9                          | 44.9                     | 6575                 | 0.153                        | 0.1964     | 206                    | 0.76                              |
| 150                       | 2.5                  | 39.9                          | 49.1                     | 7965                 | 0.124                        | 0.1597     | 230                    | 0.68                              |
| 185                       | 2.5                  | 44.4                          | 53.9                     | 9655                 | 0.0991                       | 0.1284     | 255                    | 0.61                              |
| 240                       | 2.5                  | 49.7                          | 59.4                     | 12485                | 0.0754                       | 0.0989     | 285                    | 0.54                              |
| 300                       | 2.5                  | 55.2                          | 65.3                     | 14920                | 0.0601                       | 0.0801     | 319                    | 0.49                              |
| 400                       | 3.15                 | 62.1                          | 74.0                     | 19200                | 0.047                        | 0.0641     | 452                    | 0.35                              |

## Five Core 6945XLH

| Nominal area of conductor | Armour wire diameter | Approx. diameter under armour | Approx. overall diameter | Approx. cable weight | Maximum conductor resistance |            | Nominal area of armour | Maximum armour resistance at 20°C |
|---------------------------|----------------------|-------------------------------|--------------------------|----------------------|------------------------------|------------|------------------------|-----------------------------------|
|                           |                      |                               |                          |                      | DC at 20°C                   | AC at 90°C |                        |                                   |
| mm <sup>2</sup>           | mm                   | mm                            | mm                       | kg/km                | Ω/km                         | Ω/km       | mm <sup>2</sup>        | Ω/km                              |
| 15*                       | 0.9                  | 8.9                           | 12.9                     | 345                  | 12.1                         | 15.428     | 19                     | 8.2                               |
| 15*                       | 0.9                  | 10.6                          | 14.6                     | 440                  | 7.41                         | 9.448      | 22                     | 6.6                               |
| 15*                       | 0.9                  | 12.0                          | 16.3                     | 565                  | 4.61                         | 5.878      | 25                     | 6.5                               |
| 6*                        | 1.25                 | 13.6                          | 18.5                     | 795                  | 3.08                         | 3.927      | 40                     | 3.8                               |
| 10*                       | 1.25                 | 15.5                          | 20.8                     | 1080                 | 1.83                         | 2.333      | 46                     | 3.4                               |
| 16*                       | 1.6                  | 18.9                          | 24.8                     | 1610                 | 1.15                         | 1.466      | 72                     | 2.4                               |
| 25*                       | 1.6                  | 22.8                          | 29.2                     | 2310                 | 0.727                        | 0.926      | 88                     | 1.8                               |
| 35*                       | 1.6                  | 25.6                          | 32.3                     | 2915                 | 0.524                        | 0.6695     | 100                    | 1.6                               |



Drakb55467301013

\*Circular conductors, all others are shaped conductors

A brand of the  
**Prysmian Group**

Prysmian Group,  
Chickenhall lane,  
Eastleigh,  
SO50 6YU

Sales Telephone  
01332 345431

www.drakauk.com

A brand of the  
**Prysmian Group**



## Certificate of Product Approval

Licensee:

**Draka UK Ltd**

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Standard:

BS 5467:2016 Incorporating Corrigendum No. 1

Description:

Thermosetting insulated, armoured cables with rated voltages of 600/1000V with PVC sheathing

Details:

N/A

Materials:

Insulation GP 8, Sheath Type 9

Brand Name:

N/A

Origin Mark:

DRAKA UK (B)

### Permissible Approval Marks:

**BASEC**



BASEC name

BASEC roundel

Signed for and on behalf of the British Approvals Service for Cables

*Tony Lioveri*

Date: 17/11/2020

Date of original issue: 06/10/2012

Check BASEC website to verify validity.

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BASEC, Presley House, Presley Way, Milton Keynes, MK8 0ES,

Registered in England No. 1150237, Tel: +44(0)1908267300

Email: mail@basec.org.uk, Web: www.basec.org.uk



Expiry date:  
**11/08/2023**



Type(s) and Range(s) of Approval

| Table / Clause | Code Designation | Conductor Class | Range of Cores | Min Nominal Size -sqmm | Max Nominal Size - sqmm |
|----------------|------------------|-----------------|----------------|------------------------|-------------------------|
| 5              | 6942X            | Class 2         | 2              | 1.5                    | 70                      |
| 6              | 6943X            | Class 2         | 3              | 1.5                    | 70                      |
| 7              | 6944X            | Class 2         | 4              | 1.5                    | 70                      |
| 8              | 6945X            | Class 2         | 5              | 1.5                    | 10                      |
| 9              | 6947X            | Class 2         | 7              | 1.5                    | 4                       |
| 9              | 6940/12X         | Class 2         | 12             | 1.5                    | 4                       |
| 9              | 6940/19X         | Class 2         | 19             | 1.5                    | 4                       |
| 9              | 6940/27X         | Class 2         | 27             | 1.5                    | 4                       |
| 9              | 6940/37X         | Class 2         | 37             | 1.5                    | 4                       |

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Expiry date:  
**11/08/2023**



## Certificate of Product Approval

Licensee:

**Draka UK Ltd**

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:

Harriet Street

Trecynon, Aberdare, CF44 0TD, Glamorgan, United Kingdom

Standard:

BS 5467:2016 Incorporating Corrigendum No. 1

Description:

Thermosetting insulated, armoured cables with rated voltage of  
600/1000V PVC sheathing

Details:

Materials:

Insulation GP 8, Sheath Type 9

Brand Name:

Origin Mark:  
DRAKA UK (A)

### Permissible Approval Marks:

**BASEC**



BASEC name

BASEC roundel

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Service for Cables

*Tony Lioveri*

Date: 19/11/2020

Date of original issue: 06/10/2012

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Certificate No:  
**189/002/043**  
Issue No: 5

Type(s) and Range(s) of Approval

| Table / Clause | Code Designation | Conductor Class | Range of Cores | Min Nominal Size -sqmm | Max Nominal Size - sqmm |
|----------------|------------------|-----------------|----------------|------------------------|-------------------------|
| 5              | 6942X            | Class 2         | 2              | 1.5                    | 35                      |
| 6              | 6943X            | Class 2         | 3              | 1.5                    | 35                      |
| 7              | 6944X            | Class 2         | 4              | 1.5                    | 35                      |
| 8              | 6945X            | Class 2         | 5              | 1.5                    | 16                      |

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*Tony Lioveri* Date: 19/11/2020

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Licensee:  
**Draka UK Ltd**

Chickenhall Lane, Eastleigh, SO50 6YU, Hampshire, United Kingdom

Factory:  
Oak Road

Wrexham Industrial Estate, Wrexham, LL13 9PH, Clwyd, United Kingdom

Standard:  
BS 5467:2016 Incorporating Corrigendum No. 1

Description:  
Armoured power cables with PVC sheathing

Details:  
600/1000V

Materials:  
Insulation GP 8, Sheath Type 9

Brand Name:  
N/A

Origin Mark:  
DRAKA UK (W)

### Permissible Approval Marks:

**BASEC**



BASEC name

BASEC roundel

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Date of original issue: 06/10/2012

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**11/02/2023**



Type(s) and Range(s) of Approval

| Table / Clause | Code Designation | Conductor Class | Range of Cores | Min Nominal Size -sqmm | Max Nominal Size -sqmm |
|----------------|------------------|-----------------|----------------|------------------------|------------------------|
| 4              | 6941X            | Class 2         | 1              | 120                    | 1000                   |
| 5              | 6942X            | Class 2         | 2              | 70                     | 400                    |
| 6              | 6943X            | Class 2         | 3              | 70                     | 400                    |
| 7              | 6944X            | Class 2         | 4              | 70                     | 400                    |

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