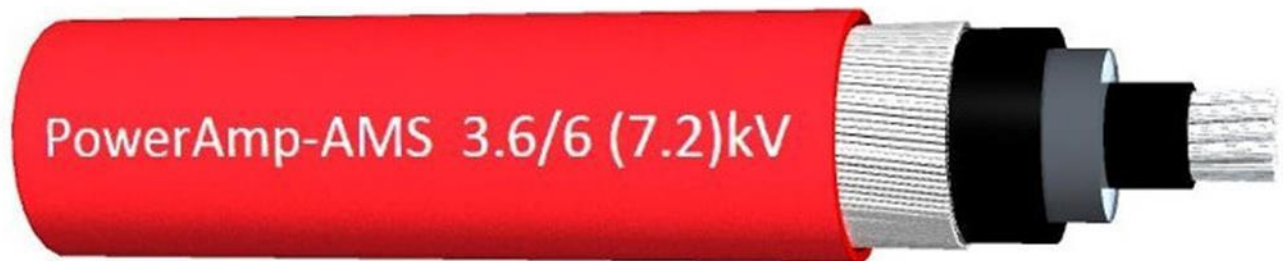


# PowerAmp-AMS 3.6/6 (7.2)kV

Highly flexible, stranded aluminium power cable insulated with excellent rubber materials



## Application

For use as connection in switch-gear where very small bending radius is required.

## Construction

|   |  |
|---|--|
| <b>Conductor</b>                              | : Highly flexible stranded aluminium                                     |
| <b>Conductor screen</b>                       | : Semi conductive extruded layer   |
| <b>Insulation</b>                             | : EPR compound, 3GI3 of VDE0250 T 813                                    |
| <b>Insulation screen</b>                      | : Semi conductive extruded layer   |
| <b>Tape</b>                                   | : Semi conductive tape   |
| <b>Copper screen</b>                          | : Spiral of tinned copper wires  |
| <b>Outer sheath</b>                           | : CSP rubber compound, heavy duty, EM7 of HD 22.1                        |
| <b>Marking text</b>                           | : E.g. "PowerAmp-AMS 1x185 mm <sup>2</sup> 3.6/6 (7.2) kV IEC60502-2 CE" |
| <b>Rated voltage (U<sub>0</sub>)</b>          | : 3.6/6 kV   |
| <b>Highest system voltage (U<sub>m</sub>)</b> | : 7.2 kV   |

## Core Identification

|                   |           |
|-------------------|-----------|
| <b>Insulation</b> | : Natural |
|-------------------|-----------|

## Outer Sheath Colours

|                          |        |
|--------------------------|--------|
| <b>Available colours</b> | : Red* |
|--------------------------|--------|

\*other colours available on request

## Installation recommendations

|  |        |
|--|--------|
| <b>Min. Bending Radius during Installation</b> | : 10xD |
| <b>Min. Bending Radius Fix Installed</b>       | : 8xD  |
| <b>Max. Conductor Operating Temperature</b>    | : 90°C |

## Standards applied

|                       |                 |
|-----------------------|-----------------|
| IEC60332-3-22 2000-10 | Flame Retardant |
| ISO 4892-82           | UV Resistant    |

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# PowerAmp-AMS 3.6/6 (7.2)kV

## Range and Dimensions

| Article Code      | Number of Cores | Size Cross-Section in mm <sup>2</sup> | Strand diameter ± mm | Nominal diameter over conductor ± mm | Nominal insulation thickness ± mm | Nominal diameter over semicon ± mm | Nominal diameter sheath ± mm | Nominal overall cable weight ± in kg/km |
|-------------------|-----------------|---------------------------------------|----------------------|--------------------------------------|-----------------------------------|------------------------------------|------------------------------|---|
| E98B01C025EAKRD14 | 1               | 25                                    | 0.4                  | 7.1                                  | 2.5                               | 15.1                               | 21.4                         | 622                                     |
| E98B01C035EAKRD14 | 1               | 35                                    | 0.4                  | 9.0                                  | 2.5                               | 17.39                              | 23.2                         | 709                                     |
| E98B01C050EAKRD14 | 1               | 50                                    | 0.4                  | 10.8                                 | 2.5                               | 19.12                              | 25.0                         | 807                                     |
| E98B01C070EAKRD14 | 1               | 70                                    | 0.5                  | 12.8                                 | 2.5                               | 21.20                              | 27.0                         | 932                                     |
| E98B01C095EAKRD14 | 1               | 95                                    | 0.5                  | 14.2                                 | 2.5                               | 22.52                              | 28.4                         | 1039                                    |
| E98B01C120EAKRD14 | 1               | 120                                   | 0.5                  | 16.0                                 | 2.5                               | 24.32                              | 30.8                         | 1231                                    |
| E98B01C150EAKRD14 | 1               | 150                                   | 0.5                  | 18.4                                 | 2.5                               | 26.75                              | 33.4                         | 1492                                    |
| E98B01C185EAKRD14 | 1               | 185                                   | 0.5                  | 19.0                                 | 2.5                               | 27.32                              | 34.0                         | 1633                                    |
| E98B01C240EAKRD14 | 1               | 240                                   | 0.5                  | 22.7                                 | 2.6                               | 31.27                              | 38.1                         | 1610                                    |
| E98B01C300EAKRD14 | 1               | 300                                   | 0.5                  | 25.5                                 | 2.8                               | 34.48                              | 41.7                         | 2293                                    |
| E98B01C400EAKRD14 | 1               | 400                                   | 0.5                  | 29.5                                 | 3.0                               | 38.82                              | 46.3                         | 2791                                    |
| E98B01C500EAKRD14 | 1               | 500                                   | 0.5                  | 32.6                                 | 3.2                               | 42.32                              | 50.0                         | 3255                                    |

## Electrical Characteristics

| Article Code      | Number of Cores | Size Cross-Section in mm <sup>2</sup> | Conductor DC resist. at 20°C in Ohm/km | M.C.C.R. parallel in air in Amps | Max. short circuit current 1 sec. in Amps |
|-------------------|-----------------|---------------------------------------|--|----------------------------------|---|
| E98B01C025EAKRD14 | 1               | 25                                    | 1.280                                  | 140                              | 2460                                      |
| E98B01C035EAKRD14 | 1               | 35                                    | 0.929                                  | 174                              | 3430                                      |
| E98B01C050EAKRD14 | 1               | 50                                    | 0.686                                  | 211                              | 4860                                      |
| E98B01C070EAKRD14 | 1               | 70                                    | 0.474                                  | 266                              | 6780                                      |
| E98B01C095EAKRD14 | 1               | 95                                    | 0.342                                  | 321                              | 9170                                      |
| E98B01C120EAKRD14 | 1               | 120                                   | 0.271                                  | 374                              | 11550                                     |
| E98B01C150EAKRD14 | 1               | 150                                   | 0.220                                  | 432                              | 14410                                     |
| E98B01C185EAKRD14 | 1               | 185                                   | 0.176                                  | 494                              | 17750                                     |
| E98B01C240EAKRD14 | 1               | 240                                   | 0.134                                  | 588                              | 22980                                     |
| E98B01C300EAKRD14 | 1               | 300                                   | 0.107                                  | 679                              | 28680                                     |
| E98B01C400EAKRD14 | 1               | 400                                   | 0.0832                                 | 802                              | 38200                                     |
| E98B01C500EAKRD14 | 1               | 500                                   | 0.0647                                 | 932                              | 47700                                     |

Laid Parallel in air is calculated with a distance from cable axis to cable axis of 2 x D (D is cable overall diameter ) Note: Above values based on Cos Phi = 1.0, f=50Hz and conform IEC agreed standards or generally accepted in practice, in order to compare and calculate additional local circuit corrections and de-ratings.

M.C.C.R. Maximum Continuous Current Rating in air at 30°C. Buried at 20°C and 60 depth with a thermal soil resistivity of 1 K.m/W.

### NOTICE

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