

# Aaron-Flex



## BW-K XLPE/PVC

### Application

The cables are used in industrial areas such as port industry.

The use of high-quality materials and advanced production processes, With excellent wear resistance and corrosion resistance, It can work stably in harsh port environment for a long time to ensure the safety and reliability of the equipment.

### Construction

#### **Certification**

EN 13501-6 and EN 50575

Classification of fire behaviour

#### **Conductor**

Copper wire bare, finely stranded acc. to DIN VDE 0295 class 5 / IEC 60228 class 5

#### **Insulation**

Cross-linked polyethylene (XLPE) insulation type DIX-3 according to HD 603 and type XLPE according to IEC 60502-1.

Core identification code

Core identification acc. to DIN VDE 0293-334, black cores with consecutive labeling in white digits or the standard identification of insulated conductors according to HD 308

#### **Protective conductor:**

G = with protective conductor GN-YE

x = without protective conductor

#### **Stranding**

Cores stranded in layers with optimal lay lengths

#### **Outer sheath:**

PVC acc. to DIN VDE 0207-363-4-1 / DIN EN 50363-4-1 (compound type TM2)

#### **Sheath colour:**

black (RAL 9005)

### Standards

. Flame-retardant acc. to DIN VDE 0482-332-1-2 / DIN EN 60332-1-2 / IEC 60332-1-2

. UV-resistant acc. to DIN EN ISO 4892-2, Method A, DIN EN 50289-4-17/VDE 0819-289-4-17, Method A

. Ozone resistance acc. to EN 50396

. Tests acc. to IEC 60811, EN 50395, EN 50396

. Weather-resistant acc. to DIN EN ISO 4892-2

. Approvals: CE

### Characteristics

#### **Temperature range**

Maximum service temperature: 90°C.

Maximum short-circuit temperature: 250°C (max. 5 s).

Minimum service temperature: -40°C (fixed and protected installation)

#### **Nominal voltage**

AC U<sub>0</sub>/U 600/1000 V

#### **Test voltage core/core**

4000 V

#### **Breakdown voltage**

8000 V

#### **Minimum bending radius**

flexible 7,5x Outer- Ø

fixed 4x Outer- Ø

#### **Length marking**

in metres

- resistant to: UV radiation, weathering effects
- largely resistant to: oil
- for outdoor use
- the materials used during manufacturing are cadmium-free, contain no silicone and are free from substances harmful to the wetting properties of lacquers



## Product Selection

### BW-K XLPE/PVC

| Cat.no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Cop. weight* [kg/km] | Approximate cable weight* [kg/km] |
|---------|---------------------|----------------------|----------------------|-----------------------------------|
| X0001   | 1x4                 | 6.7                  | 38                   | 75                                |
| X0002   | 1x6                 | 7.3                  | 58                   | 97                                |
| X0003   | 1x10                | 8.2                  | 96                   | 136                               |
| X0004   | 1x16                | 9.2                  | 154                  | 194                               |
| X0005   | 1x25                | 11                   | 240                  | 280                               |
| X0006   | 1x35                | 12.1                 | 336                  | 375                               |
| X0007   | 1x50                | 13.8                 | 480                  | 525                               |
| X0008   | 1x70                | 15.7                 | 672                  | 720                               |
| X0009   | 1x95                | 17.6                 | 911                  | 955                               |
| X0010   | 1x120               | 19.2                 | 1151                 | 1200                              |
| X0011   | 1x150               | 21.5                 | 1439                 | 1490                              |
| X0012   | 1x185               | 23.9                 | 1775                 | 1825                              |
| X0013   | 1x240               | 26.9                 | 2303                 | 2350                              |
| X0014   | 2x1.5               | 8.2                  | 29                   | 112                               |
| X0015   | 2x2.5               | 9.2                  | 48                   | 147                               |
| X0016   | 2x4                 | 10.3                 | 77                   | 192                               |
| X0017   | 2x6                 | 11.3                 | 115                  | 249                               |
| X0018   | 2x10                | 13.2                 | 192                  | 360                               |
| X0019   | 2x16                | 14.9                 | 307                  | 555                               |
| X0020   | 3x1.5               | 9.5                  | 43                   | 130                               |
| X0021   | 3x2.5               | 10.7                 | 72                   | 174                               |
| X0022   | 3x4                 | 11.5                 | 115                  | 230                               |
| X0023   | 3x6                 | 12.5                 | 173                  | 325                               |
| X0024   | 3x10                | 15.0                 | 288                  | 485                               |
| X0025   | 3x16                | 16.4                 | 461                  | 705                               |
| X0026   | 3x25                | 21                   | 720                  | 1115                              |
| X0027   | 3x35                | 23.6                 | 1007                 | 1430                              |
| X0028   | 3x50                | 27.8                 | 1439                 | 1975                              |
| X0029   | 3x70                | 30.8                 | 2015                 | 2795                              |
| X0030   | 3x95                | 35                   | 2734                 | 3615                              |
| X0031   | 3x120               | 39.8                 | 3454                 | 4525                              |
| X0032   | 3G1.5               | 9.5                  | 43                   | 130                               |
| X0033   | 3G2.5               | 10.7                 | 72                   | 174                               |
| X0034   | 4x1.5               | 10.4                 | 58                   | 155                               |
| X0035   | 4x2.5               | 11.8                 | 96                   | 211                               |
| X0036   | 4x4                 | 14.5                 | 154                  | 280                               |
| X0037   | 4x6                 | 16                   | 230                  | 390                               |
| X0038   | 4x10                | 18.5                 | 384                  | 590                               |
| X0039   | 4x16                | 21                   | 614                  | 900                               |

| Cat.no. | n x mm <sup>2</sup> | Outer diameter* [mm] | Cop. weight* [kg/km] | Approximate cable weight* [kg/km] |
|---------|---------------------|----------------------|----------------------|-----------------------------------|
| X0040   | 4x25                | 24.1                 | 959                  | 1410                              |
| X0041   | 4x35                | 26.3                 | 1343                 | 1810                              |
| X0042   | 4x50                | 31.3                 | 1919                 | 2590                              |
| X0043   | 4x70                | 36.1                 | 2686                 | 3545                              |
| X0044   | 4x95                | 40.2                 | 3646                 | 4605                              |
| X0045   | 4x120               | 44.6                 | 4605                 | 5790                              |
| X0046   | 4G1.5               | 10.4                 | 58                   | 155                               |
| X0047   | 4G2.5               | 11.8                 | 96                   | 211                               |
| X0048   | 4G4                 | 14.5                 | 154                  | 280                               |
| X0049   | 4G6                 | 16                   | 230                  | 390                               |
| X0050   | 4G10                | 18.5                 | 384                  | 590                               |
| X0051   | 4G16                | 21                   | 614                  | 900                               |
| X0052   | 4G25                | 24.1                 | 959                  | 1410                              |
| X0053   | 4G35                | 26.3                 | 1343                 | 1810                              |
| X0054   | 4G50                | 31.3                 | 1919                 | 2590                              |
| X0055   | 4G70                | 36.1                 | 2686                 | 3545                              |
| X0056   | 4G95                | 40.2                 | 3646                 | 4605                              |
| X0057   | 4G120               | 44.6                 | 4605                 | 5790                              |
| X0058   | 5G1.5               | 10.4                 | 72                   | 179                               |
| X0059   | 5G2.5               | 11.6                 | 120                  | 246                               |
| X0060   | 5G4                 | 13.2                 | 192                  | 335                               |
| X0061   | 5G6                 | 14.7                 | 288                  | 450                               |
| X0062   | 5G10                | 17.1                 | 480                  | 685                               |
| X0063   | 5G16                | 20.2                 | 768                  | 1085                              |
| X0064   | 5G25                | 26.6                 | 1199                 | 1555                              |
| X0065   | 5G35                | 29.3                 | 1679                 | 2175                              |
| X0066   | 5G50                | 34.5                 | 2399                 | 3110                              |
| X0067   | 5G70                | 38.7                 | 3358                 | 4290                              |
| X0068   | 7G1                 | 9.9                  | 67                   | 170                               |
| X0069   | 7G1.5               | 15                   | 101                  | 370                               |
| X0070   | 7G2.5               | 16.1                 | 168                  | 460                               |
| X0071   | 12G1                | 13.2                 | 115                  | 290                               |
| X0072   | 12G1.5              | 18.5                 | 173                  | 550                               |
| X0073   | 12G2.5              | 20                   | 288                  | 700                               |
| X0074   | 19G1.5              | 21                   | 273                  | 750                               |
| X0075   | 19G2.5              | 22.9                 | 456                  | 970                               |
| X0076   | 24G1.5              | 24                   | 345                  | 920                               |
| X0077   | 24G2.5              | 26.2                 | 576                  | 1200                              |
| X0078   | 32G1.5              | 24.7                 | 461                  | 1227                              |

Aaron-Flex reserves the right to carry out any modification to the data sheets whatsoever without giving previous notice.

\*For reference only, the actual parameters of the manufacturer prevail