

## AXQJ PURE 0,6/1 KV

Halogen-free power cable for installations indoors and outdoors



### DESCRIPTION

Halogen-free, flame retardant and self-extinguishing in case of fire. Smoke in the event of fire is limited, transparent (to facilitate evacuation) and not harmful to electronic equipment. Power cable for open fixed installation, indoors and outdoors, in pipes and ground / water. Suitable in switchgear and potentially explosive areas. Can be plowed down when care is taken. The concentric screen gives increased personal safety for both the installer and the installation owners.

### STANDARDS, CERTIFICATIONS AND APPROVALS



SS 424 14 18

Cenelec HD603 Part 5AB

Construction standard

Harmonized construction standard

Synonyms

SE-N1XCZ1-AS

|                                                         |                                                                             |
|---------------------------------------------------------|-----------------------------------------------------------------------------|
| Conductor material                                      | Aluminium                                                                   |
| Conductor surface                                       | Bare                                                                        |
| Core insulation material                                | XLPE                                                                        |
| Screen construction                                     | Wire screen and counterhelix tape                                           |
| Material outer sheath                                   | Low smoke zero halogen                                                      |
| Rated voltage U0/U (Um)                                 | 0.6/1 (1.2) kV                                                              |
| Test voltage [kV]                                       | 15                                                                          |
| Halogen free                                            | Yes                                                                         |
| Reaction-to-fire class (acc. EN 13501-6)                | Dca                                                                         |
| Smoke development class (acc. EN 13501-6)               | s2                                                                          |
| Euro class flaming droplets/particles (acc. EN 13501-6) | d2                                                                          |
| Euro class acidity (acc. EN 13501-6)                    | a1                                                                          |
| Max. conductor temperature                              | 90                                                                          |
| Min. outer temperature during installation [°C]         | -20                                                                         |
| Max. outer temperature during installation [°C]         | 40                                                                          |
| Rip cord                                                | Yes                                                                         |
| Bending radius (rule)                                   | Fixed installation: 8 x D<br>During handling: 12 x D                        |
| Cable marking example                                   | AXQJ Pure 0,6/1 kV 3×50/15 D-s2d2a1 DRAKA 11 "Datum och tid",<br>metermärkt |

## PRODUCT DATA

| Item name               | External article code | SAP code | Cable weight [kg/km] | Packaging |
|-------------------------|-----------------------|----------|----------------------|-----------|
| AXQJ PURE 3X35/15 T500  | 0004505               | 20194950 | 707                  | K11       |
| AXQJ PURE 3X50/15 T500  | 0004515               | 20193373 | 857                  | K11       |
| AXQJ PURE 3X70/21 T500  | 0004525               | 20193374 | 1,154                | K12       |
| AXQJ PURE 3X95/29 T500  | 0004535               | 20193375 | 1,458                | K14       |
| AXQJ PURE 3X120/41 T500 | 0004545               | 20193376 | 1,845                | K16       |
| AXQJ PURE 3X150/41 T500 | 0004555               | 20193377 | 2,189                | K16       |
| AXQJ PURE 3X185/57 T500 | 0004565               | 20193378 | 2,769                | K18       |
| AXQJ PURE 3X240/72 T500 | 0004575               | 20193379 | 3,503                | K20       |
| AXQJ PURE 3X300/88 T500 | 0004585               | 20193380 | 4,331                | K22       |
| AXQJ PURE 4X35/15 T500  | 0004605               | 20194949 | 869                  | K12       |
| AXQJ PURE 4X50/15 T500  | 0004615               | 20193381 | 1,031                | K12       |
| AXQJ PURE 4X70/21 T500  | 0004625               | 20193382 | 1,416                | K14       |
| AXQJ PURE 4X95/29 T500  | 0004635               | 20193383 | 1,840                | K16       |
| AXQJ PURE 4X120/41 T500 | 0004645               | 20193384 | 2,265                | K18       |
| AXQJ PURE 4X150/41 T500 | 0004655               | 20193385 | 2,707                | K18       |
| AXQJ PURE 4X185/57 T500 | 0004665               | 20193386 | 3,424                | K20       |
| AXQJ PURE 4X240/72 T500 | 0004675               | 20193387 | 4,341                | K22       |
| AXQJ PURE 4X300/88 T500 | 0004685               | 20193388 | 5,383                | K24       |

## TECHNICAL DATA

| Product name       | Conductor category | Shape of conductor | Core colours             | Outer diameter [mm] |
|--------------------|--------------------|--------------------|--------------------------|---------------------|
| AXQJ PURE 3X35/15  | Class 2 = stranded | Round              | Brown, black, grey       | 23.91               |
| AXQJ PURE 3X50/15  | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 26                  |
| AXQJ PURE 3X70/21  | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 29                  |
| AXQJ PURE 3X95/29  | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 29.84               |
| AXQJ PURE 3X120/41 | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 37                  |
| AXQJ PURE 3X150/41 | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 40                  |
| AXQJ PURE 3X185/57 | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 44                  |
| AXQJ PURE 3X240/72 | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 50                  |
| AXQJ PURE 3X300/88 | Class 2 = stranded | Sector-shaped      | Brown, black, grey       | 55                  |
| AXQJ PURE 4X35/15  | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 28                  |
| AXQJ PURE 4X50/15  | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 27                  |
| AXQJ PURE 4X70/21  | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 32                  |
| AXQJ PURE 4X95/29  | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 37                  |
| AXQJ PURE 4X120/41 | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 40                  |
| AXQJ PURE 4X150/41 | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 44                  |
| AXQJ PURE 4X185/57 | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 49                  |
| AXQJ PURE 4X240/72 | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 56                  |
| AXQJ PURE 4X300/88 | Class 2 = stranded | Sector-shaped      | Brown, black, grey, blue | 62                  |

Nominal values unless otherwise specified

We reserve the right to change as a result of product development and/or changes in product standard

## ELECTRICAL DATA

| Product name       | Current carrying capacity [A] | Conductor resistance at 20° C [Ohm/km] | Operating self inductance [mH/km] | Short circuit current conductor (1sec) [kA] | Screen DC resistance [Ohm/km] | Inductive Reactance (at 50Hz) [Ohm/km] |
|--------------------|-------------------------------|----------------------------------------|-----------------------------------|---------------------------------------------|-------------------------------|----------------------------------------|
| AXQJ PURE 3X35/15  | 98                            | 0.868                                  | 0.23                              | 3.3                                         | 1.2                           | 0.072                                  |
| AXQJ PURE 3X50/15  | 116                           | 0.641                                  | 0.23                              | 4.7                                         | 1.2                           | 0.072                                  |
| AXQJ PURE 3X70/21  | 142                           | 0.443                                  | 0.23                              | 6.6                                         | 0.868                         | 0.072                                  |
| AXQJ PURE 3X95/29  | 170                           | 0.32                                   | 0.22                              | 8.9                                         | 0.641                         | 0.069                                  |
| AXQJ PURE 3X120/41 | 194                           | 0.253                                  | 0.22                              | 11.3                                        | 0.443                         | 0.069                                  |
| AXQJ PURE 3X150/41 | 217                           | 0.206                                  | 0.22                              | 14.2                                        | 0.443                         | 0.069                                  |
| AXQJ PURE 3X185/57 | 247                           | 0.164                                  | 0.22                              | 17.5                                        | 0.32                          | 0.069                                  |
| AXQJ PURE 3X240/72 | 286                           | 0.125                                  | 0.22                              | 22.7                                        | 0.253                         | 0.069                                  |
| AXQJ PURE 3X300/88 | 326                           | 0.1                                    | 0.22                              | 28.3                                        | 0.206                         | 0.069                                  |
| AXQJ PURE 4X35/15  | 98                            | 0.868                                  | 0.23                              | 3.3                                         | 1.2                           | 0.072                                  |
| AXQJ PURE 4X50/15  | 116                           | 0.641                                  | 0.23                              | 4.7                                         | 1.2                           | 0.072                                  |
| AXQJ PURE 4X70/21  | 142                           | 0.443                                  | 0.23                              | 6.6                                         | 0.868                         | 0.072                                  |
| AXQJ PURE 4X95/29  | 170                           | 0.32                                   | 0.22                              | 8.9                                         | 0.641                         | 0.069                                  |
| AXQJ PURE 4X120/41 | 194                           | 0.253                                  | 0.22                              | 14.2                                        | 0.443                         | 0.069                                  |
| AXQJ PURE 4X150/41 | 217                           | 0.206                                  | 0.22                              | 14.2                                        | 0.443                         | 0.069                                  |
| AXQJ PURE 4X185/57 | 247                           | 0.164                                  | 0.22                              | 17.5                                        | 0.32                          | 0.069                                  |
| AXQJ PURE 4X240/72 | 286                           | 0.125                                  | 0.22                              | 22.7                                        | 0.253                         | 0.069                                  |
| AXQJ PURE 4X300/88 | 326                           | 0.1                                    | 0.22                              | 28.3                                        | 0.206                         | 0.069                                  |

Current carrying capacity from table 52C.2 in SS 436 40 00, utgåva 3 (installatoin in ground, ground temperature 20C, three loaded conductors, Thermal resistance 2,5 k m / W, depth 0,7m, conductor temperature 90 C, no adjacent cables). Short circuit value for conductor with initial temperature 90C,