

## ABC-BS

XLPE insulated bundled overhead line

### DESIGN



- 1 | Aluminium conductor with increased breaking load, round stranded compressed (RM)
- 2 | Core insulation (XLPE black, UV-resistant); 2 or 4 cores of equal cross section are stranded together in left-hand lay, additionally 1 or 2 cores of reduced cross section can be co-stranded

### APPLICATION

Used for fixed installation as overhead power lines up to 1000 V inclusive. Not suitable for direct burial.

### TECHNICAL DATA



**Standard:**  
BS 7870-5



**Rated voltage:**  
0.6/1 kV



**Test voltage:**  
4 kV / 50 Hz



**Temperature range:**  
 laying temperature: min. -20 °C  
 operating temperature: -30 °C up to 80 °C  
 conductor temperature: max. 75 °C  
 short circuit temperature: max. 130 °C/5 s



**Bending radius (min.):**  
18 x Ø of cable



**Core identification:**  
 1, 2 resp. 3 raised longitudinal ribs on the surface of the cores. The surface of the neutral conductor is ribbed around the precimeter. In the case of five core bundles the surface of the protective core should be smooth

| Number of cores x nominal cross-section (mm <sup>2</sup> ) | Max. conductor resistance (Ω/km) | Min. breaking load of conductor strand (kN) | Current rating in the air (A) | Outer diameter (mm) appr. | Total weight (kg/km) appr. | Standard lengths/packing (m) |
|--|----------------------------------|---|-------------------------------|---------------------------|----------------------------|------------------------------|
| <b>ABC-BS</b>  |                                  |   |                               |                           |                            |                              |
| 2 x 25 RM  | 1.2                              | 4.1   | 107                           | 17.5                      | 193                        | 1000 D                       |
| 4 x 25 RM  | 1.2                              | 4.1   | 107                           | 21.0                      | 386                        | 1000 D                       |
| 2 x 35 RM  | 0.868                            | 5.6   | 132                           | 19.7                      | 253                        | 1000 D                       |
| 4 x 35 RM  | 0.868                            | 5.6   | 132                           | 23.7                      | 506                        | 1000 D                       |
| 4 x 35 + 1 x 25 RM   | 0.868/1.2                        | 5.6/4.1                                     | 132/107                       | 23.7                      | 603                        | 1000 D                       |
| 2 x 50 RM  | 0.641                            | 7.6   | 165                           | 22.8                      | 341                        | 1000 D                       |
| 4 x 50 RM  | 0.641                            | 7.6   | 165                           | 27.4                      | 681                        | 1000 D                       |
| 4 x 50 + 1 x 25 RM   | 0.641/1.2                        | 7.6/4.1                                     | 165/107                       | 27.5                      | 778                        | 1000 D                       |
| 2 x 70 RM  | 0.443                            | 11.0  | 205                           | 26.1                      | 468                        | 1000 D                       |
| 4 x 70 RM  | 0.443                            | 11.0  | 205                           | 31.4                      | 935                        | 1000 D                       |
| 2 x 95 RM  | 0.32                             | 15.3  | 240                           | 30.4                      | 640                        | 1000 D                       |
| 4 x 95 RM  | 0.32                             | 15.3  | 240                           | 36.6                      | 1281                       | 1000 D                       |
| 4 x 95 + 1 x 25 RM   | 0.32 /1.2                        | 15.3/4.1                                    | 240/107                       | 36.6                      | 1378                       | 1000 D                       |
| 5 x 95 RM  | 0.32                             | 15.3  | 240                           | 41.0                      | 1602                       | 1000 D                       |
| 4 x 120 RM   | 0.253                            | 19.4  | 290                           | 39.6                      | 1572                       | 1000 D                       |

Technical changes reserved. All figures are therefore without guarantee.