

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 core of reduced cross section can be co-stranded

APPLICATION

Can be used for fixed installation as overhead power lines up to 1,000 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 ²)	Max. conductor resistance (Ω/km)	Min. breaking load of conductor strand (kN)	Current rating in the air ¹⁾ (A)	Outer diameter (mm) ca.	Total weight (kg/km) ca.	Standard lengths/packing (m)
ABC-BS						
2 x 25 RM	1.200	4.1	107	18.0	210	1,000 D
4 x 25 RM	1.200	4.1	107	21.2	430	1,000 D
2 x 35 RM	0.868	5.6	132	20.0	280	1,000 D
4 x 35 RM	0.868	5.6	132	24.1	555	1,000 D
2 x 50 RM	0.641	7.6	165	23.5	365	1,000 D
4 x 50 RM	0.641	7.6	165	27.8	750	1,000 D
4 x 50 RM + 1 x 25 RM	0.641/1.200	7.6/4.1	165/107	31.9	815	1,000 D
2 x 70 RM	0.443	11.0	205	25.4	505	1,000 D
4 x 70 RM	0.443	11.0	205	31.8	1,010	1,000 D
4 x 70 RM + 1 x 25 RM	0.443/1.200	11.0/4.1	205/107	36.0	1,110	1,000 D
2 x 95 RM	0.320	15.3	240	30.3	670	1,000 D
4 x 95 RM	0.320	15.3	240	37.8	1,340	1,000 D
4 x 95 RM + 1 x 25 RM	0.320/1.200	15.3/4.1	240/107	41.8	1,440	1,000 D
4 x 120 RM	0.253	19.4	290	54.4	1,640	1,000 D

1) basic rated current acc. to BS 7870-5
Subject to technical changes.