

Aerial Bundled Cable (ABC) - BS 7870-5 (0.6/1 kV)

Overhead cable for aerial distribution and service connection

Aerial Bundled Cable (ABC) - BS 7870-5 (0.6/1 kV) is prepared for preliminary product selection and quotation review. This product is used for overhead distribution routes where conductor arrangement, insulation, messenger or neutral support and installation environment determine cable selection.



VOLTAGE

0.6/1kV

CONDUCTOR

Aluminum / reinforced conductor route, according to overhead cable standard

TYPICAL USE

Aerial bundled cable systems

STANDARDS

BS 7870-5

DATA SCOPE

2 technical table(s) included for preliminary selection

SELECTION NOTE

Confirm voltage, conductor, core arrangement, messenger/neutral and installation span.

For quotation review, provide cable type, standard, size, quantity and project destination.

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Application & Selection Summary

Typical applications

- Aerial bundled cable systems
- overhead service drops
- rural and urban distribution networks
- utility line upgrade projects.

Selection logic

- Confirm voltage grade, conductor material, core arrangement, messenger/neutral requirement, installation span and applicable utility standard.

Construction Overview

Item	Website-ready content
Product route	Aluminum or copper conductor with insulation and optional messenger or bundled arrangement according to product type.
Voltage	0.6/1kV
Conductor	Aluminum / reinforced conductor route, according to overhead cable standard
Standards	BS 7870-5
Confirmation	Final structure, dimensions and packing should follow selected standard, quotation review and order specification.

Readable Data Index

Data route	Size / rating range	Construction	Diameter / OD	Resistance / weight / rating
Duplex ABC (1 Phase + 1 Neutral) - Service Drop	2 x 16 mm ² - 4 x 35 mm ²	See table	See table	140 - 560
Quadruplex ABC (3 Phases + 1 Neutral) - Main Networks	4 x 50 mm ² - 3 x 95 + 1x70(N) + 1x16(Light)	See table	See table	750 - 1480

Data boundary: these tables support website launch, quotation review and preliminary product selection. For project execution, final dimensions, electrical performance, packing and compliance documents should be confirmed against the selected project standard and order specification.

Duplex ABC (1 Phase + 1 Neutral) - Service Drop

Reference table for preliminary selection and quotation review.

Size & Configuration	Phase Cond. Dia. (mm)	Insulation Thickness (mm)	Approx. Bundle OD (mm)	Approx. Weight (kg/km)	Min. Breaking Load (kN)
Duplex ABC (1 Phase + 1 Neutral) - Service Drop					
2 x 16 mm ²	4.7	1.2	14.5	140	5.30
2 x 25 mm ²	5.9	1.2	17.0	210	8.30
2 x 35 mm ²	6.9	1.2	19.5	280	11.50
Quadruplex ABC (3 Phases + 1 Neutral) - Light Mains					
ca4t xio 16n msm ²	4.7	1.2	17.5	280	10.60
4 x 25 mm ²	5.9	1.2	20.5	420	16.60
4 x 35 mm ²	6.9	1.2	23.5	560	23.00

Quadruplex ABC (3 Phases + 1 Neutral) - Main Networks

Reference table for preliminary selection and quotation review.

Size & Configuration	Phase Cond. Dia. (mm)	Insulation Thickness (mm)	Approx. Bundle OD (mm)	Approx. Weight (kg/km)	Min. Breaking Load (kN)
Quadruplex ABC (3 Phases + 1 Neutral) - Main Networks					
4 x 50 mm ²	8.1	1.5	27.0	750	32.80
4 x 70 mm ²	9.7	1.5	31.5	1040	46.00
4 x 95 mm ²	11.4	1.7	36.0	1430	62.40
4 x 120 mm ²	12.9	1.7	39.5	1790	78.80
ABC with Integrated Street Lighting Core					
3 x 95 + 1x70(N) + 1x16(Light)	11.4 / 9.7	1.7 / 1.5	37.5	1480	60.00