

Medium Voltage ABC Cable

Overhead cable for aerial distribution and service connection

Medium Voltage ABC Cable 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

6.35/11kV, 12.7/22kV,
19/33kV

CONDUCTOR

Aluminum / reinforced
conductor route, according to
overhead cable standard

TYPICAL USE

Aerial bundled cable systems

STANDARDS

AS/NZS 3599; IEC 60502-2;
IEC 60228

DATA SCOPE

4 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	6.35/11kV, 12.7/22kV, 19/33kV
Conductor	Aluminum / reinforced conductor route, according to overhead cable standard
Standards	AS/NZS 3599; IEC 60502-2; IEC 60228
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
Medium Voltage ABC Cable - Technical Table 1	50 - 240	19/1.78 - 61/2.25	See table	0.641 - 0.125
Medium Voltage ABC Cable - Technical Table 2	50 - 185	19/1.78 - 37/2.52	See table	0.641 - 0.164
Medium Voltage ABC Cable - Technical Table 3	See table	7/4.75 - 19/3.50	52.4 - 73.1	1370 - 3190
Medium Voltage ABC Cable - Technical Table 4	See table	7/4.75 - 19/3.50	61.0 - 81.7	1780 - 3760

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.

Medium Voltage ABC Cable - Technical Table 1

Reference table for preliminary selection and quotation review.

Configuration	Phase Stranding	Phase Area (mm2)	Max. DC Resistance (ohm/km)	Messenger Stranding	Messenger Area (mm2)	Breaking Load (kN)	Current (A)
3x50 + 1x25	19/1.78	50	0.641	7/2.14	25	60	116
3x70 + 1x50	19/2.14	70	0.443	7/3.15	50	62	210
3x95 + 1x50	19/2.52	95	0.320	7/3.00	50	60	173
3x150 + 1x50	37/2.25	150	0.206	7/3.15	50	62	365
3x185 + 1x120	37/2.52	185	0.164	7/4.67	120	150	259
3x240 + 1x50	61/2.25	240	0.125	7/3.15	50	62	500

Medium Voltage ABC Cable - Technical Table 2

Reference table for preliminary selection and quotation review.

Configuration	on Phase Stranding	Phase Area (mm ²)	Max. DC Resistance (ohm/km)	Messenger Stranding	Messenger Area (mm ²)	Breaking Load (kN)	Current (A)
3x50 + 1x50	19/1.78	50	0.641	7/3.00	50	60	165
3x70 + 1x50	19/2.14	70	0.443	7/3.15	50	62	250
3x150 + 1x50	37/2.25	150	0.206	7/3.00	50	60	315
3x150 + 1x50	37/2.25	150	0.206	7/3.15	50	62	370
3x185 + 1x70	37/2.52	185	0.164	7/3.57	70	91	355

Medium Voltage ABC Cable - Technical Table 3

Reference table for preliminary selection and quotation review.

Configuration	Cond. Dia. (mm)	Insulation (mm)	Insul. Screen (mm)	Sheath (mm)	Support (No/mm)	Overall Dia. (mm)	Weight (kg/km)	Still Air (A)	1 m/s (A)	2 m/s (A)
3x35	6.9	3.4	0.8	1.2	7/4.75	52.4	1370	110	155	185
3x50	8.1	3.4	0.8	1.2	7/4.75	54.6	1530	130	185	225
3x70	9.7	3.4	0.8	1.2	7/4.75	57.8	1790	160	235	280
3x95	11.4	3.4	0.8	1.2	7/4.75	61.3	2100	195	285	345
3x120	12.8	3.4	0.8	1.2	19/3.50	67.3	2540	230	335	405
3x150	14.2	3.4	0.8	1.2	19/3.50	70.1	2840	255	380	460
3x185	15.7	3.4	0.8	1.2	19/3.50	73.1	3190	295	440	530

Medium Voltage ABC Cable - Technical Table 4

Reference table for preliminary selection and quotation review.

Configuration	Cond. Dia. (mm) tion	Insulation (mm)	Insul. Screen (mm)	Sheath (mm)	Support (No/mm)	Overall Dia. (mm)	Weight (kg/km)	Still Air (A)	1 m/s (A)	2 m/s (A)
3x35	6.9	5.5	0.8	1.2	7/4.75	61.0	1780	110	155	180
3x50	8.1	5.5	0.8	1.2	7/4.75	63.3	1970	130	185	220
3x70	9.7	5.5	0.8	1.2	7/4.75	66.5	2260	160	230	275
3x95	11.4	5.5	0.8	1.2	7/4.75	69.9	2600	195	285	335
3x120	12.8	5.5	0.8	1.2	19/3.50	75.9	3070	225	330	395
3x150	14.2	5.5	0.8	1.2	19/3.50	78.7	3390	255	375	450
3x185	15.7	5.5	0.8	1.2	19/3.50	81.7	3760	290	435	520