

Covered Conductor

Overhead cable for aerial distribution and service connection

Covered Conductor 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

15kV, 25kV, 35kV

CONDUCTOR

Aluminum / reinforced conductor route, according to overhead cable standard

TYPICAL USE

Aerial bundled cable systems

STANDARDS

ICEA S-121-733; ASTM B230; ASTM B231; ASTM B232; additional project standards

DATA SCOPE

5 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	15kV, 25kV, 35kV
Conductor	Aluminum / reinforced conductor route, according to overhead cable standard
Standards	ICEA S-121-733; ASTM B230; ASTM B231; ASTM B232; ASTM B398; ASTM B498; ASTM B500
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
Covered Conductor - Technical Table 1	1/0 AWG - 477 kcmil	See table	See table	210 - 648
Covered Conductor - Technical Table 2	48.69 kcmil - 394.5 kcmil	See table	See table	137 - 568
Covered Conductor - Technical Table 3	48.69 kcmil - 246.9 kcmil	See table	See table	225 - 525
Covered Conductor - Technical Table 4	4 AWG - 397.5 kcmil	See table	See table	149 - 653

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.

Covered Conductor - Technical Table 1

Reference table for preliminary selection and quotation review.

Cond. Size	Strands	Dia. over Cond. (in.)	Shield (mil)	Inner (mil)	Outer (mil)	Approx. OD (in.)	Weight (lb/kft)	Rated Strength (lb)
1/0 AWG	7	0.336	15	75	75	0.666	210	1791
2/0 AWG	7	0.376	15	75	75	0.706	246	2259
3/0 AWG	7	0.423	15	75	75	0.753	289	2736
4/0 AWG	7	0.475	15	75	75	0.805	343	3447
plicati 266.8 kcmil	19	0.537	15	75	75	0.867	407	4473
336.4 kcmil	19	0.603	15	75	75	0.933	487	5535
397.5 kcmil	19	0.659	15	75	75	0.989	558	6399
477 kcmil	19	0.722	15	75	75	1.052	648	7524

Covered Conductor - Technical Table 2

Reference table for preliminary selection and quotation review.

Cond. Size	ion Strands	Dia. over Cond. (in.)	Shield (mil)	Inner (mil)	Outer (mil)	Approx. OD (in.)	Weight (lb/kft)	Rated Strength (lb)
48.69 kcmil	7	0.250	15	75	75	0.580	137	1584
77.47 kcmil	7	0.316	15	75	75	0.646	179	2520
123.3 kcmil	7	0.398	15	75	75	0.728	241	4014
155.4 kcmil	7	0.447	15	75	75	0.777	283	4851
195.7 kcmil	7	0.502	15	75	75	0.832	334	6111
246.9 kcmil	7	0.563	15	75	75	0.893	397	7704
312.8 kcmil	19	0.642	15	75	75	0.972	473	9900
394.5 kcmil	19	0.720	15	75	75	1.050	568	11970

Covered Conductor - Technical Table 3

Reference table for preliminary selection and quotation review.

Cond. Size	Strands	Dia. over Cond. (in.)	Shield (mil)	Inner (mil)	Outer (mil)	Approx. OD (in.)	Weight (lb/kft)	Rated Strength (lb)
48.69 kcmil	7	0.250	15	125	125	0.780	225	1584
77.47 kcmil	7	0.316	15	125	125	0.846	275	2520
123.3 kcmil	7	0.398	15	125	125	0.928	348	4014
155.4 kcmil	7	0.447	15	125	125	0.977	396	4851
195.7 kcmil	7	0.502	15	125	125	1.032	454	6111
246.9 kcmil	7	0.563	15	125	125	1.093	525	7704

Covered Conductor - Technical Table 4

Reference table for preliminary selection and quotation review.

Cond. Size	Strands	Dia. over Cond. (in.)	Inner (mil)	Outer (mil)	Approx. OD (in.)	Weight (lb/kft)	Rated Strength (lb)
4 AWG	6/1	0.250	75	75	0.580	149	1767
2 AWG	6/1	0.316	75	75	0.646	200	2708
1/0 AWG	6/1	0.398	75	75	0.728	278	4161
2/0 AWG	6/1	0.447	75	75	0.777	330	5045
e3/s0 AcWrGipti	6/1	0.502	75	75	0.832	393	6289
4/0 AWG	6/1	0.563	75	75	0.893	471	7933
266.8 kcmil	18/1	0.609	75	75	0.939	474	6536
266.8 kcmil	26/7	0.642	75	75	0.972	553	10735
336.4 kcmil	18/1	0.684	75	75	1.014	570	8246
336.4 kcmil	26/7	0.720	75	75	1.050	669	13395
336.4 kcmil	30/7	0.741	75	75	1.071	935	16435
397.5 kcmil	18/1	0.743	75	75	1.073	653	9443

Covered Conductor - Technical Table 5

Reference table for preliminary selection and quotation review.

Cond. Size	Strands	Dia. over Cond. (in.)	Shield (mil)	Inner (mil)	Outer (mil)	Approx. OD (in.)	Weight (lb/kft)	Rated Strength (lb)
1/0 AWG	6/1	0.398	15	175	125	1.028	448	4161
2/0 AWG	6/1	0.447	15	175	125	1.077	509	5045