

Tree Wire

Overhead cable for aerial distribution and service connection

Tree Wire 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

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

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.

ethan@farwalkcable.com | +86 155 5800 6344

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
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
Tree Wire - Technical Table 1	1/0 AWG - 477 kcmil	See table	See table	210 - 648
Tree Wire - Technical Table 2	48.69 kcmil - 394.5 kcmil	See table	See table	137 - 568
Tree Wire - Technical Table 3	1/0 AWG - 266.8 kcmil	See table	See table	309 - 531
Tree Wire - Technical Table 4	1/0 AWG - 4/0 AWG	See table	See table	385 - 600

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.

Tree Wire - 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
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 plicati	19	0.659	15	75	75	0.989	558	6399
477 kcmil	19	0.722	15	75	75	1.052	648	7524

Tree Wire - Technical Table 2

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	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

Tree Wire - 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)
1/0 AWG	7	0.336	15	125	125	0.866	309	1791
2/0 AWG	7	0.376	15	125	125	0.906	350	2259
3/0 AWG	7	0.423	15	125	125	0.953	400	2736
4/0 AWG	7	0.475	15	125	125	1.005	460	3447
266.8 kcmil	19	0.537	15	125	125	1.067	531	4473

Tree Wire - Technical Table 4

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	125	125	0.928	385	4161
2/0 AWG	6/1	0.447	15	125	125	0.977	443	5045
3/0 AWG	6/1	0.502	15	125	125	1.032	513	6289
4/0 AWG	6/1	0.563	15	125	125	1.093	600	7933