

ArcGIS Electric Network data model



Distribution network

Features in the electric distribution network through which electricity flows

(C) can be a container
(T) can have terminals
(S) is a structure

An electric distribution device transforms, switches, interrupts, regulates, measures, or otherwise controls the flow of power.

An electric distribution line is a segment of wire which conducts electricity.

An electric distribution assembly is a container of distribution devices, distribution junctions, and distribution lines.

Electric distribution junctions are used to establish associations between the distribution network and the structure network.

line feature class
Electric Distribution SubnetLine

A union of connected lines features used to identify and map circuits.

line feature class
Electric Distribution Line
Unknown
Busbar
Connector
Low Voltage
Medium Voltage
Neutral

point feature class
Electric Distribution Junction
Unknown
Connection Point
Ground
LineEnd
Riser

point feature class
Electric Distribution Device
Unknown
Arrester
Capacitor
Circuit Breaker (T)
Fuse
Generation
LineMonitor
Network Protector (T)
Service Point
Street Light
Switch
Transformer (T)
Voltage Regulator

point container feature class
Electric Distribution Assembly
Unknown
Arrester Bank (C)
Capacitor Bank (C)
Circuit Breaker Bank (C)
Fuse Bank (C)
ServiceLocation (C)
Switch Bank (C)
Transformer Bank (C)
Voltage Regulator Bank (C)

Structure network

Features that physically support devices and lines in other networks

point container feature class
Structure Junction
Unknown
Cabinet (C)
Guy
Handhole (C)
Junction Box (C)
Manhole (C)
Pad (S)
Pedestal (S)
Platform (S)
Pole (S)
Switchgear (C)
Vault (C)

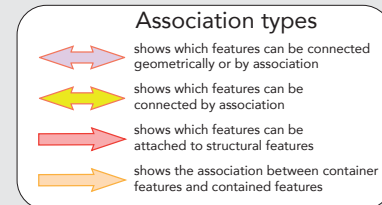
line container feature class
Structure Line
Unknown
Aerial Support
Duct (C)
Duct Bank (C)
Trench (C)

polygon container feature class
Structure Boundary
Unknown
Cabinet (C)
Storage Facility (C)
Substation (C)
Vault (C)

A structure boundary is a dense collection of features.

Electric Distribution Line
Electric Distribution Junction
Electric Distribution Device
Electric Distribution Assembly
Structure Line
Structure Junction
Structure Boundary

A structure boundary can contain every type of network and structure feature.



A structure line is a component which does not have power flowing through it but is connected to the distribution network.

A structure junction is a component which is attached to the distribution network but does not have power flowing through it.

