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## LoadCase

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### Attr Name: Name

Description: LoadCase name  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### Attr Name: Method

Alt Display Name: Code  
Description: Calculation Method  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: NESC  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: NESC (National Electrical Safety Code)  
GO 95 (GO 95)  
ASCE (American Society of Civil Engineers)  
CSA (Canadian Standards Association)  
AS/NZS 7000 (AS/NZS 7000)  
N/A (No special calculations)

### Attr Name: Deflection

Attr Group: Solver  
Alt Display Name: Analysis Method  
Description: Solution method to use  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Linear  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Linear (Static No P-Delta iterations performed)  
1 Iteration P-? (Single iteration P-Delta)  
2nd Order P-? (Fully Converged P-Delta)

### Attr Name: Fixity

Attr Group: Solver  
Alt Display Name: Groundline Fixity  
Description: Groundline fixity mode  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Fixed  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Fixed (Pole is fixed at groundline for guy analysis)  
Pinned (Pole is gimbaled at groundline for guy analysis)

### Attr Name: Solver

Attr Group: Solver  
Description: Solver to use  
User Level Required: Administrative access only  
Attr Type: ENUMERATED  
Default: Advanced  
ReadOnly: Yes

Visible: Yes  
Incl When Subst: Yes  
Enum Values: Legacy (Legacy)  
Advanced (Advanced)  
F3DD (F3DD)  
PPLGEN1 (PPLGEN1)

### **Attr Name: Algorithm**

Attr Group: Solver  
Description: Algorithm to use  
User Level Required: Administrative access only  
Attr Type: ENUMERATED  
Default: Cholesky Decomposition  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Cholesky Decomposition (Cholesky Decomposition)  
Conjugate Gradient (Conjugate Gradient)

### **Attr Name: District**

Attr Group: Ice  
Description: District  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: <unset>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: One (One)  
Two (Two)  
Three (Three)  
N/A (N/A)

### **Attr Name: Radial Ice**

Attr Group: Ice  
Alt Display Name: Radial Ice (in)  
Description: Radial Thickness of Ice  
Displayed Units: store as INCHES display as  
INCHES or MILLIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.25  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Ice Density**

Attr Group: Ice  
Alt Display Name: Ice Density (lb/ft<sup>3</sup>)  
Description: Ice Density in lbs per cubic inch  
Displayed Units: store as POUNDS PER CUBIC INCH display as  
POUNDS PER CUBIC FOOT or KILOGRAMS PER CUBIC METER  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.032986  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Wind Speed**

Attr Group: Wind

Alt Display Name: Wind Speed (mph)  
Description: NESC Basic Wind Speed at 33 Feet / ASCE Fastest Wind  
Displayed Units: store as MILES PER HOUR display as  
MILES PER HOUR or KILOMETERS PER HOUR  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 39.53  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Horiz Wind Pres**

Attr Group: Wind  
Alt Display Name: Wind Pressure (lb/ft<sup>2</sup>)  
Description: Horizontal Wind Pressure in lbs per square foot  
Displayed Units: store as PSF display as  
PSF or PASCAL  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 4  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Temperature**

Attr Group: Temperature  
Alt Display Name: Temperature (°f)  
Description: Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: TempMin**

Attr Group: Temperature  
Alt Display Name: Temp Min (°f)  
Description: Minimum Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 32  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: TempMax**

Attr Group: Temperature  
Alt Display Name: Temp Max (°f)  
Description: Maximum Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 212  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindType**

Attr Group: Wind  
Alt Display Name: NESC Standard  
Description: Wind calculation type  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: 2007  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: 1997 (1997)  
2002 (2002)  
2007 (2007)  
2012 (2012)  
N/A (N/A)

### **Attr Name: Construction Grade**

Description: Construction Grade  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: B  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: A (A)  
F (F)  
B (B)  
C (C)  
1 (1)  
2 (2)  
3 (3)  
N/A (N/A)

### **Attr Name: Crossing Conditions**

Description: Describes the crossings conditions of the site  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Unknown  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Unknown (Unknown)  
None (None)  
At Crossing (At Crossing)

### **Attr Name: Installation or Replacement**

Description: Use load factors at installation or load factors at replacement  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: At Installation  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: At Installation (At Installation)  
At Replacement (At Replacement)

### **Attr Name: Override Wind**

Attr Group: Wind  
Description: Apply fixed wind angle  
User Level Required: All user levels may access this attribute

Attr Type: BOOLEAN  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: NomWindAngle**

Attr Group: Wind  
Alt Display Name: Override Wind Angle (°)  
Description: Nominal wind angle  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Terrian Exposure**

Alt Display Name: Terrain Exposure  
Description: ASCE Terrian Exposure Code  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: N/A  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes  
Enum Values: B (B)  
C (C)  
D (D)  
N/A (N/A)

**Attr Name: Force Coef**

Description: ASCE Force Coefficient  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes

**Attr Name: Strength Reduction Factor**

Attr Group: AS/NZS 7000  
Alt Display Name: F Strength Reduction Factor  
Description: Strength Reduction Factor  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0##  
Attr Type: FLOAT  
Default: 1.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Load Duration Factor**

Attr Group: AS/NZS 7000  
Alt Display Name: K1 Load Duration Factor  
Description: Load Duration Factor  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0##  
Attr Type: FLOAT

Default: 1.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Immaturity Factor**

Attr Group: AS/NZS 7000  
Alt Display Name: K20 Immaturity Factor  
Description: Immaturity Factor  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0##  
Attr Type: FLOAT  
Default: 1.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Shaving Factor**

Attr Group: AS/NZS 7000  
Alt Display Name: K21 Shaving Factor  
Description: Shaving Factor  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0##  
Attr Type: FLOAT  
Default: 1.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Processing Factor**

Attr Group: AS/NZS 7000  
Alt Display Name: K22 Processing Factor  
Description: Processing Factor  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0##  
Attr Type: FLOAT  
Default: 1.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Degradation Factor**

Attr Group: AS/NZS 7000  
Alt Display Name: Kd Degradation Factor  
Description: Degradation Factor  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0##  
Attr Type: FLOAT  
Default: 1.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Shear Area**

Attr Group: AS/NZS 7000  
Description: Shear Area  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Tip  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Tip (Tip)

Actual (Actual)

**Attr Name: 250 Rule**

Attr Group: Pole LFs  
Description: Rule applied from NESC 250 when calculating the loads  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Rule 250B  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Rule 250B (Rule 250B)  
Rule 250B Alternate (Rule 250B Alternate)  
Rule 250C (Rule 250C)  
Rule 250D (Rule 250D)  
N/A (N/A)

**Attr Name: Vertical LF**

Attr Group: Pole LFs  
Alt Display Name: Vertical Pole LF  
Description: NESC Vertical Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: TransWind LF**

Attr Group: Pole LFs  
Alt Display Name: Transverse Wind Pole LF  
Description: NESC Transverse Wind Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 2.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: TransTension LF**

Attr Group: Pole LFs  
Alt Display Name: Wire Tension (Guyed, Junction, Angle) Pole LF  
Description: NESC Transverse Wire Tension Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GeneralLongitude LF**

Attr Group: Pole LFs  
Alt Display Name: Wire Tension (Unguyed Tangent) Pole LF  
Description: NESC General Non-Deadend Longitudinal Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##

Attr Type: FLOAT  
Default: 1.10  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DeadendLongitude LF**

Attr Group: Pole LFs  
Alt Display Name: Wire Tension (Deadend) Pole LF  
Description: NESC Deadend Longitudinal Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Guy Vertical LF**

Attr Group: Guy LFs  
Alt Display Name: Vertical Guy LF  
Description: NESC Vertical Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Guy TransWind LF**

Attr Group: Guy LFs  
Alt Display Name: Transverse Wind Guy LF  
Description: NESC Transverse Wind Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 2.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Guy TransTension LF**

Attr Group: Guy LFs  
Alt Display Name: Wire Tension (Guyed, Junction, Angle) Guy LF  
Description: NESC Transverse Wire Tension Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Guy GeneralLongitude LF**

Attr Group: Guy LFs  
Alt Display Name: Wire Tension (Unguyed Tangent) Guy LF  
Description: NESC General Non-Deadend Longitudinal Load Factor for applied 250 rule calculations for the selected Construction Grade



User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.10  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Guy DeadendLongitude LF**

Attr Group: Guy LFs  
Alt Display Name: Wire Tension (Deadend) Guy LF  
Description: NESC Deadend Longitudinal Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Anchor Vertical LF**

Attr Group: Anchor LFs  
Alt Display Name: Vertical Anchor LF  
Description: NESC Vertical Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Anchor TransWind LF**

Attr Group: Anchor LFs  
Alt Display Name: Transverse Wind Anchor LF  
Description: NESC Transverse Wind Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 2.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Anchor TransTension LF**

Attr Group: Anchor LFs  
Alt Display Name: Wire Tension (Guyed, Junction, Angle) Anchor LF  
Description: NESC Transverse Wire Tension Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Anchor GeneralLongitude LF**

Attr Group: Anchor LFs  
Alt Display Name: Wire Tension (Unguyed Tangent) Anchor LF

Description: NESC General Non-Deadend Longitudinal Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.10  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Anchor DeadendLongitude LF**

Attr Group: Anchor LFs  
Alt Display Name: Wire Tension (Deadend) Anchor LF  
Description: NESC Deadend Longitudinal Load Factor for applied 250 rule calculations for the selected Construction Grade  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Pole Strength Factor**

Attr Group: Strength  
Description: Pole Strength Factor value  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 0.85  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Crossarm Strength Factor**

Attr Group: Strength  
Description: Crosarm Strength Factor value  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 0.50  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Guy Strength Factor**

Attr Group: Strength  
Description: Guy Strength Factor value  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 0.9  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Anchor Strength Factor**

Attr Group: Strength  
Description: Anchor Strength Factor value  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 1.0

ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PoleCapacityThreshold**

Attr Group: Threshold  
Alt Display Name: Capacity Threshold %  
Description: PoleCapacityThreshold  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 75  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Guy Inadequate Thresh**

Attr Group: Threshold  
Alt Display Name: Guy/Anch Inadequate %  
Description:  
Displayed Units: store as PERCENT 0 TO 100 display as  
INVERSE PERCENT 0 TO 100  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Guy At Cap Thresh**

Attr Group: Threshold  
Alt Display Name: Guy/Anch At Cap %  
Description:  
Displayed Units: store as PERCENT 0 TO 100 display as  
INVERSE PERCENT 0 TO 100  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 2  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Guy Near Cap Thresh**

Attr Group: Threshold  
Alt Display Name: Guy/Anch Near Cap %  
Description:  
Displayed Units: store as PERCENT 0 TO 100 display as  
INVERSE PERCENT 0 TO 100  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 10  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Span Cap Thresh**

Attr Group: Threshold  
Alt Display Name: Span Load Thresh %  
Description:  
Displayed Units: store as PERCENT 0 TO 100 display as

INVERSE PERCENT 0 TO 100  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 10  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Apply FSR**

Description: Apply ANSI O5.1.2008 Fiber Strength Reduction calculations for wood poles >= 60 feet in length  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BucklingConstUnguyed**

Attr Group: Buckling  
Alt Display Name: Unguyed Constant  
Description: Buckling constant unguyed  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 2  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BucklingConstGuyed**

Attr Group: Buckling  
Alt Display Name: Guyed Constant  
Description: Buckling constant unguyed  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 0.707106781186548  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: SectionHeightMethod**

Attr Group: Buckling  
Alt Display Name: Section Method  
Description: Buckling method  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Standard  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes  
Enum Values: Standard (Standard)  
Percent BCH (Percent BCH)

**Attr Name: BucklingSectionPercentBCH**

Attr Group: Buckling  
Alt Display Name: Percent BCH  
Description: Percent of Buckling Column Height to use as Buckling Section  
Displayed Units: store as PERCENT 0 TO 1 display as PERCENT 0 TO 100  
User Level Required: All user levels may access this attribute

Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.33333333  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes

**Attr Name: ReportingAngleMode**

Attr Group: Reporting  
Alt Display Name: Report Angle Mode  
Description: Reporting Angle Mode  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Load  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Tip Deflection (Tip Deflection)  
Wind (Wind)  
Load (Load)  
Relative (Relative)  
Fixed (Fixed)

**Attr Name: ReportingAngle**

Attr Group: Reporting  
Alt Display Name: Reporting Angle (°)  
Description: Reporting angle  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 1.5707963267949  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: SpanCapSignal**

Attr Group: Reporting  
Alt Display Name: Signal Span Over Cap  
Description:  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ArmCapSignal**

Attr Group: Reporting  
Alt Display Name: Signal Crossarm Over Cap  
Description:  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GuyCapSignal**

Attr Group: Reporting  
Alt Display Name: Signal Guy Over Cap  
Description:

User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CarryCapacityUp**

Attr Group: Reporting  
Alt Display Name: Carry Cap Up  
Description: Carry moment capacity upwards  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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Notes

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**Attr Name: Description**

Description: Description of the note  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Note  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Author**

Description: Author of the note  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Date**

Description: Creation date of the note  
User Level Required: All user levels may access this attribute  
Attr Type: DATE  
Default:

ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Contents**

Description: RTF Contents  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Grid**

Description: SpreadSheet Contents  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes

**Attr Name: SplitPercent**

Description: Split bar position  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 0.6  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**LinkedURI**

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**Attr Name: Description**

Description: Description of the link  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Link  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: URI**

Description: Universal Resource Identifier  
User Level Required: All user levels may access this attribute  
Attr Type: URI  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Viewer**

Description: Viewer to use  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: External  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Built in (Built in)  
External (External)

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**PoleInfoPoint**

---

**Attr Name: Description**

Description: Brief description of the damage  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateZ**

Alt Display Name: Location (ft)  
Description: Distance from the butt of the pole to center of damage or decay  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 120.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No



**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation angle around the center of the pole  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**PoleSegment**

---

**Attr Name: Description**

Description: Description of the segment  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Material  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the segment  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <td>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CoordinateZ**

Alt Display Name: Height (ft)  
Description: Height  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0# #  
Attr Type: TRACKERZ  
Default: -72  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Type**

Description: Segment type  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Simple  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes  
Enum Values: Simple (Simple)  
Advanced (Advanced)

### **Attr Name: Color**

Alt Display Name: Display Color  
Description: The color of the segment  
User Level Required: Limited users can NOT access this attribute  
Attr Type: COLOR  
Default: #FFD2B48C  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: LengthInInches**

Attr Group: Dimensions  
Alt Display Name: Length (in)  
Description: Length  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 60  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: LapLengthInInches**

Attr Group: Dimensions  
Alt Display Name: Lap Length (in)  
Description: Lap Length  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 60  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: LapMode**

Attr Group: Dimensions  
Alt Display Name: Lap Mode  
Description: Lap Mode  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: None  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Top (Top)  
Bottom (Bottom)  
None (None)

### **Attr Name: RadiusAtTipInInches**

Attr Group: Dimensions  
Alt Display Name: Radius at Tip (in)  
Description: Radius at tip  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS

User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 8  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RadiusAtBaseInInches**

Attr Group: Dimensions  
Alt Display Name: Radius at Base (in)  
Description: Radius at base  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 8  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Attr Group: Dimensions  
Alt Display Name: Segment Weight (lbs)  
Description: Segment weight in pounds  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Shape**

Attr Group: Section  
Description: Cross section shape  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Round  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Round (Round)  
Polygonal (Polygonal)

**Attr Name: Faces**

Attr Group: Section  
Alt Display Name: Polygon Faces  
Description: Number of polygon faces  
User Level Required: Limited users can NOT access this attribute  
Attr Type: PLUSMINUS  
Default: 8  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ThicknessTable**

Attr Group: Capacity  
Alt Display Name: Thickness  
Description: The material thickness  
User Level Required: All user levels may access this attribute

Attr Type: THICKNESS\_TABLE  
Default: Thick;0,0.25;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Modulus of Elasticity**

Attr Group: Capacity  
Alt Display Name: Modulus of Elasticity (psi)  
Description: Modulus of elasticity for the material  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 1600000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MomentCapacityTable**

Attr Group: Capacity  
Alt Display Name: Moment Cap (ft-lb)  
Description: The moment capacity table  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: MOMENT\_TABLE  
Default: Moment;0,50000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BucklingCapacityTable**

Attr Group: Capacity  
Alt Display Name: Buckling Cap (lbs)  
Description: The buckling capacity table  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: BUCKLING\_TABLE  
Default: Buckling;0,5000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MaterialTip**

Attr Group: Materials  
Alt Display Name: Material at Tip  
Description: Material Tip  
User Level Required: Limited users can NOT access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME  
Default: <unset>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MaterialBase**

Attr Group: Materials  
Alt Display Name: Material at Base  
Description: Material Base  
User Level Required: Limited users can NOT access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME

Default: <unset>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Blend by**

Attr Group: Materials  
Description: Blending Function  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Height (Height)  
Radius (Radius)  
Area (Area)  
Area Squared (Area Squared)

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**WoodPole**

---

**Attr Name: Pole Number**

Description: Pole identification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Structure Type**

Description: Pole structure type specification  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Auto  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Auto (Automatically determine the structure type from attached  
equipment)  
Tangent (Pole with all wires running in line with each other)  
Angle (Pole with at least one wire that is at an angle relative to the  
others)  
Deadend (Pole with wires ending at the pole)

Junction (Pole with wires crossing at or near the pole)

**Attr Name: Class**

Alt Display Name: Pole Class  
Description: Pole class specification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: 4  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LengthInInches**

Alt Display Name: Pole Length (ft)  
Description: Pole length in inches  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 480  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Species**

Description: Wood species of the pole  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: SOUTHERN PINE  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Species Code**

Alt Display Name: Code  
Description: Code Standard  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: NESC Standard  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BuryDepthInInches**

Alt Display Name: Setting Depth (ft)  
Description: Bury depth in inches  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 72  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as DEGREES

User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LeanDirection**

Alt Display Name: Lean Direction (°)  
Description: Pole lean direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LeanAmount**

Alt Display Name: Lean Amount (°)  
Description: Pole amount direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: RadiusAtTipInInches**

Attr Group: Circumference  
Alt Display Name: Tip Circum (in)  
Description:  
Displayed Units: store as RADIUS IN INCHES display as CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.3422538049298  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GLCircumMethod**

Attr Group: Circumference  
Alt Display Name: GL Circum Method  
Description: Groundline method.  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: By Specs  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: By Specs (By Specs)  
Measured (Measured)

**Attr Name: Circum6ft**

Attr Group: Circumference

Alt Display Name: 6ft Circum (in)  
Description: The pole circumference at the 6 foot point  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 33.5  
ReadOnly: Yes  
Visible: No  
Incl When Subst: Yes

**Attr Name: MeasuredRadiusGL**

Attr Group: Circumference  
Alt Display Name: GL Circum (in)  
Description: Measured radius at the groundline  
Displayed Units: store as RADIUS IN INCHES display as  
CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 5.33169059357849  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ApplyEffectiveRadiusGL**

Attr Group: Circumference  
Alt Display Name: Apply Eff. GL Reduction  
Description: Apply Effective radius at the groundline  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: EffectiveRadiusGL**

Attr Group: Circumference  
Alt Display Name: Eff. GL Circ (in)  
Description: Effective radius at the groundline  
Displayed Units: store as RADIUS IN INCHES display as  
CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 5.33169059357849  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrengthRemainingGL**

Attr Group: Circumference  
Alt Display Name: GL Remaining Strength (%)  
Description: % remaining strength at the groundline  
Displayed Units: store as PERCENT 0 TO 1 display as  
PERCENT 0 TO 100  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes



**Attr Name: OverturnMoment**

Attr Group: Circumference  
Alt Display Name: Overturn Moment (ft-lbs)  
Description: Overturn moment  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.#  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Modulus of Rupture**

Attr Group: Phys. Consts  
Alt Display Name: Modulus of Rupture (psi)  
Description: Modulus of rupture for the given species  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 8000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Modulus of Elasticity**

Attr Group: Phys. Consts  
Alt Display Name: Modulus of Elasticity (psi)  
Description: Modulus of elasticity for the given species  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 1600000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindDragCoef**

Attr Group: Phys. Consts  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Density**

Attr Group: Phys. Consts  
Alt Display Name: Density (lb/ft<sup>3</sup>)  
Description: Density for the given species in lbs per cubic inch  
Displayed Units: store as POUNDS PER CUBIC INCH display as  
POUNDS PER CUBIC FOOT or KILOGRAMS PER CUBIC METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT

Default: 0.0347222222222222  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Shear Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Shear Str (psi)  
Description: Characteristic Shear Strength  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 450  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Compression Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Compression Str (psi)  
Description: Characteristic Compression Strength  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 3500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Effective Length**

Attr Group: AS/NZS 7000  
Alt Display Name: Effective Length (ft)  
Description: Effective Length  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0#  
Attr Type: FLOAT  
Default: -1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Material Constant**

Attr Group: AS/NZS 7000  
Description: Material Constant  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 1.24  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PoleMfgLength**

Attr Group: Phys. Consts  
Alt Display Name: Pole Mfg Length (ft)  
Description: Pole manufactured length in inches  
Displayed Units: store as INCHES display as

FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 480  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Table No**

Attr Group: Phys. Consts  
Description: Table Designation  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: ANSI8  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Offset**

Attr Group: Multi Pole  
Alt Display Name: Offset (ft)  
Description: Pole offset in feet  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 1**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 2**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 3**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 4**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 5**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 6**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 7**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 8**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: UseMomentCapacityTable**

Attr Group: Phys. Consts  
Alt Display Name: Override Moment Cap  
Description: Use the moment capacity table  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentCapacityTable**

Attr Group: Phys. Consts  
Alt Display Name: Moment Cap (ft-lb)  
Description: The moment capacity table  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: MOMENT\_TABLE  
Default: Moment;0,50000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**SteelPole**

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**Attr Name: Pole Number**

Description: Pole identification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Structure Type**

Description: Pole structure type specification  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Auto  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Auto (Automatically determine the structure type from attached  
equipment)  
Tangent (Pole with all wires running in line with each other)  
Angle (Pole with at least one wire that is at an angle relative to the  
others)  
Deadend (Pole with wires ending at the pole)  
Junction (Pole with wires crossing at or near the pole)

**Attr Name: Class**

Alt Display Name: Pole Class  
Description: Pole class specification  
User Level Required: All user levels may access this attribute

Attr Type: STRING  
Default: 4  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LengthInInches**

Alt Display Name: Length (ft)  
Description: Pole length in inches  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 480  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CatalogName**

Alt Display Name: Catalog Name  
Description: Wood species of the pole  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: User Defined  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Pole Code**

Alt Display Name: Code  
Description: Pole Code  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: GO 95  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: NESC C2-2007 (NESC C2-2007)  
GO 95 (GO 95)  
CSA C22.3 No. 1-10 (CSA C22.3 No. 1-10)

**Attr Name: Shape**

Description: Cross section shape  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Round  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Round (Round)  
Polygonal (Polygonal)

**Attr Name: Faces**

Alt Display Name: Polygon Faces  
Description: Number of polygon faces  
User Level Required: Limited users can NOT access this attribute  
Attr Type: PLUSMINUS  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Mount**

Attr Group: Installation  
Alt Display Name: Mount Type  
Description: Mount type  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Pedestal  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Embedded (Embedded)  
Pedestal (Pedestal)

**Attr Name: PedestalRadius**

Attr Group: Installation  
Alt Display Name: Pedestal Radius (in)  
Description: Radius of pedestal mount  
Displayed Units: store as RADIUS IN INCHES display as CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 16.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BuryDepthInInches**

Alt Display Name: Setting Depth (ft)  
Description: Bury depth in inches  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 72  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LeanDirection**

Alt Display Name: Lean Direction (°)  
Description: Pole lean direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes

Incl When Subst: No

**Attr Name: LeanAmount**

Alt Display Name: Lean Amount (°)  
Description: Pole amount direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: RadiusAtTipInInches**

Attr Group: Circumference  
Alt Display Name: Tip Circum (in)  
Description:  
Displayed Units: store as RADIUS IN INCHES display as CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.3422538049298  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RadiusAtBaseInInches**

Attr Group: Circumference  
Alt Display Name: Base Circum (in)  
Description: Radius At Base  
Displayed Units: store as RADIUS IN INCHES display as CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 9  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: OverturnMoment**

Attr Group: Circumference  
Alt Display Name: Overturn Moment (ft-lbs)  
Description: Overturn moment  
Displayed Units: store as FTLBS display as FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.#  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Modulus of Elasticity**

Attr Group: Phys. Consts  
Alt Display Name: Modulus of Elasticity (psi)  
Description: Modulus of elasticity for the given species  
Displayed Units: store as PSI display as PSI or KILOPASCAL



User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 29000000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindDragCoef**

Attr Group: Phys. Consts  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Density**

Attr Group: Phys. Consts  
Alt Display Name: Density (lb/ft<sup>3</sup>)  
Description: Density for the given species in lbs per cubic inch  
Displayed Units: store as POUNDS PER CUBIC INCH display as  
POUNDS PER CUBIC FOOT or KILOGRAMS PER CUBIC METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0347222222222222  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Shear Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Shear Str (psi)  
Description: Characteristic Shear Strength  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 450  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Compression Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Compression Str (psi)  
Description: Characteristic Compression Strength  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 3500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Effective Length**

Attr Group: AS/NZS 7000  
Alt Display Name: Effective Length (ft)  
Description: Effective Length  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0#  
Attr Type: FLOAT  
Default: -1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Material Constant**

Attr Group: AS/NZS 7000  
Description: Material Constant  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 1.24  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Offset**

Attr Group: Multi Pole  
Alt Display Name: Offset (ft)  
Description: Pole offset in feet  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Aux Data 1**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Aux Data 2**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Aux Data 3**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING

Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 4**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 5**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 6**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 7**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 8**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: ThicknessTable**

Alt Display Name: Thickness  
Description: The material thickness  
User Level Required: All user levels may access this attribute  
Attr Type: THICKNESS\_TABLE  
Default: Thick;0,0.25;  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PedestalMomentCapacity**

Attr Group: Installation  
Alt Display Name: Ped Mom Cap (ft-lb)  
Description: The pedestal moment capacity  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 90000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PedestalBucklingCapacity**

Attr Group: Installation  
Alt Display Name: Ped Buck Cap (lbs)  
Description: The pedestal buckling capacity  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 9000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DistToGrade**

Attr Group: Installation  
Alt Display Name: Dist To Grade (ft)  
Description: Distance to grade of pedestal mount  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MomentCapacityTable**

Attr Group: Capacity  
Alt Display Name: Moment Cap (ft-lb)  
Description: The moment capacity table  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: MOMENT\_TABLE  
Default: Moment;0,50000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BucklingCapacityTable**

Attr Group: Capacity  
Alt Display Name: Buckling Cap (lbs)  
Description: The buckling capacity table  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: BUCKLING\_TABLE

Default: Buckling;0,5000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**ConcretePole**

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**Attr Name: Pole Number**

Description: Pole identification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Structure Type**

Description: Pole structure type specification  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Auto  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Auto (Automatically determine the structure type from attached equipment)  
Tangent (Pole with all wires running in line with each other)  
Angle (Pole with at least one wire that is at an angle relative to the others)  
Deadend (Pole with wires ending at the pole)  
Junction (Pole with wires crossing at or near the pole)

**Attr Name: Class**

Alt Display Name: Pole Class  
Description: Pole class specification  
User Level Required: All user levels may access this attribute  
Attr Type: CONCRETE\_POLE\_CLASS  
Default: Unset  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LengthInInches**

Alt Display Name: Length (ft)  
Description: Pole length in inches  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 480  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CatalogName**

Alt Display Name: Catalog Name  
Description: Wood species of the pole  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: User Defined  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Pole Code**

Alt Display Name: Code  
Description: Pole Code  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: GO 95  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: NESC (NESC)  
GO 95 (GO 95)

**Attr Name: Shape**

Description: Cross section shape  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Round  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Round (Round)  
Polygonal (Polygonal)

**Attr Name: Faces**

Alt Display Name: Polygon Faces  
Description: Number of polygon faces  
User Level Required: Limited users can NOT access this attribute  
Attr Type: PLUSMINUS  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Mount**

Attr Group: Installation  
Alt Display Name: Mount Type  
Description: Mount type  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Embedded  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes  
Enum Values: Embedded (Embedded)  
Pedestal (Pedestal)

### **Attr Name: PedestalRadius**

Attr Group: Installation  
Alt Display Name: Pedestal Radius (in)  
Description: Radius of pedestal mount  
Displayed Units: store as RADIUS IN INCHES display as  
CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 16.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BuryDepthInInches**

Alt Display Name: Setting Depth (ft)  
Description: Bury depth in inches  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 72  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LeanDirection**

Alt Display Name: Lean Direction (°)  
Description: Pole lean direction in radians  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LeanAmount**

Alt Display Name: Lean Amount (°)  
Description: Pole amount direction in radians  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute

Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: RadiusAtTipInInches**

Attr Group: Circumference  
Alt Display Name: Tip Circum (in)  
Description:  
Displayed Units: store as RADIUS IN INCHES display as  
CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.3422538049298  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: RadiusAtBaseInInches**

Attr Group: Circumference  
Alt Display Name: Base Circum (in)  
Description: Radius At Base  
Displayed Units: store as RADIUS IN INCHES display as  
CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 9  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: OverturnMoment**

Attr Group: Circumference  
Alt Display Name: Overturn Moment (ft-lbs)  
Description: Overturn moment  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.#  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Modulus of Elasticity**

Attr Group: Phys. Consts  
Alt Display Name: Modulus of Elasticity (psi)  
Description: Modulus of elasticity for the given species  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 4350000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes



### **Attr Name: WindDragCoef**

Attr Group: Phys. Consts  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Density**

Attr Group: Phys. Consts  
Alt Display Name: Density (lb/ft<sup>3</sup>)  
Description: Density for the given species in lbs per cubic inch  
Displayed Units: store as POUNDS PER CUBIC INCH display as POUNDS PER CUBIC FOOT or KILOGRAMS PER CUBIC METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0347222222222222  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Shear Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Shear Str (psi)  
Description: Characteristic Shear Strength  
Displayed Units: store as PSI display as PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 450  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Compression Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Compression Str (psi)  
Description: Characteristic Compression Strength  
Displayed Units: store as PSI display as PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 3500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Effective Length**

Attr Group: AS/NZS 7000  
Alt Display Name: Effective Length (ft)  
Description: Effective Length  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0#  
Attr Type: FLOAT  
Default: -1

ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Material Constant**

Attr Group: AS/NZS 7000  
Description: Material Constant  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 1.24  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Offset**

Attr Group: Multi Pole  
Alt Display Name: Offset (ft)  
Description: Pole offset in feet  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 1**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 2**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 3**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 4**

Attr Group: User Data  
Description:

User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 5**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 6**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 7**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 8**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: ThicknessTable**

Alt Display Name: Thickness  
Description: The material thickness  
User Level Required: All user levels may access this attribute  
Attr Type: THICKNESS\_TABLE  
Default: Thick;0,0.25;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PedestalMomentCapacity**

Attr Group: Installation  
Alt Display Name: Ped Mom Cap (ft-lb)  
Description: The pedestal moment capacity  
Displayed Units: store as FTLBS display as

FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 90000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PedestalBucklingCapacity**

Attr Group: Installation  
Alt Display Name: Ped Buck Cap (lbs)  
Description: The pedestal buckling capacity  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 9000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DistToGrade**

Attr Group: Installation  
Alt Display Name: Dist To Grade (ft)  
Description: Distance to grade of pedestal mount  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MomentCapacityTable**

Attr Group: Capacity  
Alt Display Name: Moment Cap (ft-lb)  
Description: The moment capacity table  
Displayed Units: store as FTLBS display as FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: MOMENT\_TABLE  
Default: Moment;0,50000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BucklingCapacityTable**

Attr Group: Capacity  
Alt Display Name: Buckling Cap (lbs)  
Description: The buckling capacity table  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: BUCKLING\_TABLE  
Default: Buckling;0,5000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Torque**

Alt Display Name: Ultimate Torque (ft-lbs)  
Description: Maximum allowable torque

Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 600  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### Attr Name: WorkingDataStore

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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## CompositePole

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### Attr Name: Pole Number

Description: Pole identification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### Attr Name: Owner

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### Attr Name: Structure Type

Description: Pole structure type specification  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Auto  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Auto (Automatically determine the structure type from attached  
equipment)  
Tangent (Pole with all wires running in line with each other)  
Angle (Pole with at least one wire that is at an angle relative to the  
others)  
Deadend (Pole with wires ending at the pole)  
Junction (Pole with wires crossing at or near the pole)

### Attr Name: Class

Alt Display Name: Pole Class  
Description: Pole class specification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: 4  
ReadOnly: Yes

Visible: Yes  
Incl When Subst: Yes

**Attr Name: LengthInInches**

Alt Display Name: Length (ft)  
Description: Pole length in inches  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 480  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CatalogName**

Alt Display Name: Catalog Name  
Description: Wood species of the pole  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: User Defined  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Pole Code**

Alt Display Name: Code  
Description: Pole Code  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: GO 95  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: NESC (NESC)  
GO 95 (GO 95)

**Attr Name: Shape**

Description: Cross section shape  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Polygonal  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Round (Round)  
Polygonal (Polygonal)

**Attr Name: Faces**

Alt Display Name: Polygon Faces  
Description: Number of polygon faces  
User Level Required: Limited users can NOT access this attribute  
Attr Type: PLUSMINUS  
Default: 4  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Mount**

Attr Group: Installation  
Alt Display Name: Mount Type

Description: Mount type  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Pedestal  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Embedded (Embedded)  
Pedestal (Pedestal)

### **Attr Name: PedestalRadius**

Attr Group: Installation  
Alt Display Name: Pedestal Radius (in)  
Description: Radius of pedestal mount  
Displayed Units: store as RADIUS IN INCHES display as  
CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 16.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BuryDepthInInches**

Alt Display Name: Setting Depth (ft)  
Description: Bury depth in inches  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 72  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LeanDirection**

Alt Display Name: Lean Direction (°)  
Description: Pole lean direction in radians  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LeanAmount**

Alt Display Name: Lean Amount (°)  
Description: Pole amount direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: RadiusAtTipInInches**

Attr Group: Circumference  
Alt Display Name: Tip Circum (in)  
Description:  
Displayed Units: store as RADIUS IN INCHES display as CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.3422538049298  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: RadiusAtBaseInInches**

Attr Group: Circumference  
Alt Display Name: Base Circum (in)  
Description: Radius At Base  
Displayed Units: store as RADIUS IN INCHES display as CIRCUMFERENCE IN INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 9  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: OverturnMoment**

Attr Group: Circumference  
Alt Display Name: Overturn Moment (ft-lbs)  
Description: Overturn moment  
Displayed Units: store as FTLBS display as FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.#  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Modulus of Elasticity**

Attr Group: Phys. Consts  
Alt Display Name: Modulus of Elasticity (psi)  
Description: Modulus of elasticity for the given species  
Displayed Units: store as PSI display as PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 29000000  
ReadOnly: No



Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindDragCoef**

Attr Group: Phys. Consts  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Density**

Attr Group: Phys. Consts  
Alt Display Name: Density (lb/ft<sup>3</sup>)  
Description: Density for the given species in lbs per cubic inch  
Displayed Units: store as POUNDS PER CUBIC INCH display as  
POUNDS PER CUBIC FOOT or KILOGRAMS PER CUBIC METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0347222222222222  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Shear Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Shear Str (psi)  
Description: Characteristic Shear Strength  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 450  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Characteristic Compression Strength**

Attr Group: AS/NZS 7000  
Alt Display Name: Char Compression Str (psi)  
Description: Characteristic Compression Strength  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 3500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Effective Length**

Attr Group: AS/NZS 7000  
Alt Display Name: Effective Length (ft)  
Description: Effective Length  
Displayed Units: store as INCHES display as  
FEET or METERS

User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0#  
Attr Type: FLOAT  
Default: -1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Material Constant**

Attr Group: AS/NZS 7000  
Description: Material Constant  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 1.24  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Offset**

Attr Group: Multi Pole  
Alt Display Name: Offset (ft)  
Description: Pole offset in feet  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 1**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 2**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 3**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 4**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 5**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 6**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 7**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 8**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: ThicknessTable**

Alt Display Name: Thickness  
Description: The material thickness  
User Level Required: All user levels may access this attribute  
Attr Type: THICKNESS\_TABLE  
Default: Thick;0,0.25;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PedestalMomentCapacity**

Attr Group: Installation  
Alt Display Name: Ped Mom Cap (ft-lb)  
Description: The pedestal moment capacity  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 90000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PedestalBucklingCapacity**

Attr Group: Installation  
Alt Display Name: Ped Buck Cap (lbs)  
Description: The pedestal buckling capacity  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 9000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: DistToGrade**

Attr Group: Installation  
Alt Display Name: Dist To Grade (ft)  
Description: Distance to grade of pedastal mount  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentCapacityTable**

Attr Group: Capacity  
Alt Display Name: Moment Cap (ft-lb)  
Description: The moment capacity table  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: MOMENT\_TABLE  
Default: Moment;0,50000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BucklingCapacityTable**

Attr Group: Capacity  
Alt Display Name: Buckling Cap (lbs)  
Description: The buckling capacity table  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: BUCKLING\_TABLE  
Default: Buckling;0,5000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**SegmentedPole**

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**Attr Name: Pole Number**

Description: Pole identification  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Structure Type**

Description: Pole structure type specification  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Auto  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Auto (Automatically determine the structure type from attached equipment)  
Tangent (Pole with all wires running in line with each other)  
Angle (Pole with at least one wire that is at an angle relative to the others)  
Deadend (Pole with wires ending at the pole)  
Junction (Pole with wires crossing at or near the pole)

**Attr Name: OverlapCombineCap**

Alt Display Name: Overlap Combine Cap  
Description: OverlapCombineCap  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00

Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LeanDirection**

Alt Display Name: Lean Direction (°)  
Description: Pole lean direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LeanAmount**

Alt Display Name: Lean Amount (°)  
Description: Pole amount direction in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 1**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 2**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 3**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 4**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 5**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 6**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 7**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Aux Data 8**

Attr Group: User Data  
Description:  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

**Attr Name: Description**

Description: Description of the anchor  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Anchor  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateZ**

Alt Display Name: Height from GL (ft)  
Description: The vertical distance from the butt of the pole to the anchor point  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

**Attr Name: CoordinateX**

Alt Display Name: Lead Length (ft)  
Description: The horizontal lead length from the pole to the anchor point  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 381  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Lead Angle (°)  
Description: Lead Angle  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 1.5707963267949  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: DeltaHeight**

Alt Display Name: Delta Height (ft)  
Description: Delta Height  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute



Format Expression: 0.0  
Attr Type: TRACKERZ  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: OffsetAngle**

Alt Display Name: Offset Angle (°)  
Description: Offset Angle  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RodDiameterInInches**

Alt Display Name: Rod Diameter (in)  
Description: The diameter of the rod associated with this anchor  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 0.75  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RodLengthAboveGLInInches**

Alt Display Name: Rod Length AGL (in)  
Description: The length of the rod associated with this anchor above GL  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 30  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RodDescription**

Alt Display Name: Rod Description  
Description: Description of the rod used at the site of the anchor  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Joslyn Copperbonded 1in x 10ft Twineye  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RodStrength**

Alt Display Name: Rod Strength (lbs)  
Description: The strength of the rod in pounds  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0

Attr Type: FLOAT  
Default: 45000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MaxGuys**

Alt Display Name: Max Guys  
Description: The maximum number of guys that can be attached to the rod  
User Level Required: Limited users can NOT access this attribute  
Attr Type: PLUSMINUS  
Default: 2  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MergeAnchors**

Alt Display Name: Merge Anchors  
Description: Merge with anchors at same position,  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: SoilClass**

Alt Display Name: Soil Class  
Description: The class of soil at the site of the anchor  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Class 4  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Class 0 (Sound hard rock, bedrock, unweathered)  
Class 1 (Very dense and/or cemented sands, coarse gravel and cobbles)  
Class 2 (Dense fine sand, very hard silts and clays (may be preloaded))  
Class 3 (Dense sands and gravel, hard silts and clays)  
Class 4 (Medium dense sandy gravel, very stiff to hard silts and clays)  
Class 5 (Medium dense coarse sand and sandy gravels, stiff to very stiff  
silts and clays)  
Class 6 (Loose to medium dense fine to coarse sand, firm to stiff clays  
and silts)  
Class 7 (Loose fine sand, alluvium, loess clays, soft-firm clays, varied  
clays, fill)  
Class 8 (Peat, organic silts, inundated silts, fly ash, very loose sands,  
very soft to soft clays)

### **Attr Name: HoldingStrength**

Alt Display Name: Holding Strength (lbs)  
Description: The holding strength of anchor in pounds for the selected soil class  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0  
Attr Type: FLOAT  
Default: 20000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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## Crossarm

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### **Attr Name: CoordinateX**

Alt Display Name: Pole Offset (in)  
Description: Distance from the center of the pole to the center of the crossarm  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 0  
ReadOnly: No  
Visible: No  
Incl When Subst: No

### **Attr Name: Description**

Description: Description of crossarm  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Crossarm  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateZ**

Alt Display Name: Install Height (ft)  
Description: Distance from the butt of the parent pole to the center of the crossarm  
Displayed Units: store as HEIGHT from BUTT in INCHES display as HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 462  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation angle around the center of the pole  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA

Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Type**

Alt Display Name: Install Type  
Description: Crossarm type (centered or offset)  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Normal  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Normal (Normal)  
Offset (Offset)  
Pole Extension (Pole Extension)  
Full Gull (Full Gull)  
Half Gull (Half Gull)  
Standoff (Standoff)

### **Attr Name: Count**

Alt Display Name: Arm Count  
Description: Crossarm count (1 or 2)  
User Level Required: All user levels may access this attribute  
Attr Type: PLUSMINUS  
Default: 1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Braced**

Attr Group: Brace  
Alt Display Name: Brace Config.  
Description: Indicates if the crossarm is braced  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: None  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Double (Double)  
Single (Single)  
None (None)

### **Attr Name: BraceOffset**

Attr Group: Brace  
Alt Display Name: Brace Horiz Offset (in)  
Description: Horizontal distance to brace point  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: TRACKERX  
Default: 24.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BraceDrop**

Attr Group: Brace  
Alt Display Name: Brace Vert Offset (in)  
Description: Vertical distance to brace point  
Displayed Units: store as INCHES display as

INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: TRACKERZ  
Default: 24.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: LengthInInches**

Attr Group: Dimensions  
Alt Display Name: Arm Length (ft)  
Description: The length from the crossarm from tip to tip  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 96  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: HeightInInches**

Attr Group: Dimensions  
Alt Display Name: Arm Height (in)  
Description: The distance from the top of the crossarm to the bottom  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 4.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DepthInInches**

Attr Group: Dimensions  
Alt Display Name: Arm Depth (in)  
Description: The distance (depth) from the face of the crossarm to the surface of the  
pole in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Tilt**

Attr Group: Physical  
Alt Display Name: Arm Tilt  
Description: The crossarm tilt in radians.  
Displayed Units: store as RADIANS display as  
DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: VerticalOffset**

Attr Group: Physical  
Alt Display Name: Vertical Offset (in)  
Description: Vertical Offset  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERZ  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: HorizontalOffset**

Attr Group: Physical  
Alt Display Name: Horizontal Offset (in)  
Description: Horizontal Offset  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERX  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LateralOffset**

Attr Group: Physical  
Alt Display Name: Lateral Offset (in)  
Description: Lateral Offset  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERX  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Attr Group: Physical  
Alt Display Name: Arm Weight (lbs)  
Description: Crossarm weight in pounds  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 50  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Modulus of Rupture**

Attr Group: Physical  
Alt Display Name: Modulus of Rupture (psi)  
Description: Modulus of rupture  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 8000  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Modulus of Elasticity**

Attr Group: Physical  
Alt Display Name: Modulus of Elasticity (psi)  
Description: Modulus of elasticity for the crossarm  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 1600000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindDragCoef**

Attr Group: Physical  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Analysis Mode**

Attr Group: Analysis  
Alt Display Name: Capacity Method  
Description: Analysis Mode  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Automatic  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Automatic (Automatic)  
Manual (Manual)

### **Attr Name: AllowableMomentVertical**

Attr Group: Analysis  
Alt Display Name: Max Moment Vert (ft-lb)  
Description: AllowableMomentVertical  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: AllowableMomentLongitudinal**

Attr Group: Analysis  
Alt Display Name: Max Moment Long (ft-lb)  
Description: AllowableMomentLongitudinal  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute

Format Expression: 0.0  
Attr Type: FLOAT  
Default: 500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: AllowableLoadTransverse**

Attr Group: Analysis  
Alt Display Name: Max Load Shear (lbs)  
Description: AllowableLoadTransverse  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: AllowableLoadLongitudinal**

Attr Group: Analysis  
Alt Display Name: Max Load Tension (lbs)  
Description: AllowableLoadLongitudinal  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: OverrideStrength**

Attr Group: Analysis  
Alt Display Name: Override Strength Factor  
Description: Override Nominal Strength Factor  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrengthFactor**

Attr Group: Analysis  
Alt Display Name: Strength Factor  
Description: Crosarm Strength Factor value  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 0.50  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Analysis Method**

Attr Group: Analysis  
Description: Analysis Method  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED



Default: Superposition  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Superposition (Superposition)  
Interaction (Interaction)  
Worst Axis (Worst Axis)

### **Attr Name: Offset**

Attr Group: Multi Pole  
Alt Display Name: Offset (ft)  
Description: Multi Pole offset in feet  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Material**

Attr Group: Material  
Description: Material  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Wood  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Wood (Wood)  
Steel (Steel)  
Composite (Composite)  
Other (Other)

### **Attr Name: Species**

Attr Group: Material  
Description: Wood species of the crossarm  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Southern Pine  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: ArmMaterial**

Attr Group: Material  
Alt Display Name: Arm Material Props  
Description: Arm Material  
User Level Required: All user levels may access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME  
Default: <Default>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: BraceMaterial**

Attr Group: Material  
Alt Display Name: Brace Material Props  
Description: Brace Material  
User Level Required: All user levels may access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME

Default: <Default>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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## Insulator

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**Attr Name: Description**

Description: Description of the insulator.  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Insulator  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Type**

Description: The span connector type. This may be a style of insulator, j-hook, or other hardware used to attach spans to the pole.  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Pin  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Pin (Pin)  
Post (Post)  
Davit (Davit)  
Spool (Spool)  
Underhung (Underhung)  
Suspension (Suspension)  
Deadend (Deadend)  
J-Hook (J-Hook)  
Bolt (Bolt)

**Attr Name: CoordinateZ**

Alt Display Name: Install Height (ft)  
Description: The Z coordinate relative to the parent. This value is frequently set by SnapToParent  
Displayed Units: store as HEIGHT from BUTT in INCHES display as HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ

Default: 300.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation of the insulator / span holder relative to its parent. If the orientation is non-zero the stalk with lean along this axis  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Side**

Description: The span connector pole side (for insulators on a pole only).  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Inline  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Street (Street)  
Field (Field)  
Inline (Inline)  
Front (Front)  
Back (Back)  
Both (Both)  
Split (Split)

### **Attr Name: CoordinateX**

Alt Display Name: Horizontal Offset (in)  
Description: Distance from the center of the parent. In the case of a crossarm this is the position along the arm. In the case of poles this is typically set by SnapToParent  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LengthInInches**

Attr Group: Properties  
Alt Display Name: Unit Length (in)  
Description: The total length of the insulator structure  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 8.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DavitAngle**

Alt Display Name: Davit Angle (°)  
Description: Davit angle in radians.  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 1.18682389135614  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Pitch**

Attr Group: Properties  
Alt Display Name: Tilt (°)  
Description: Pitch in radians.  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Crab**

Attr Group: Properties  
Alt Display Name: Crab Angle (°)  
Description: Crab angle in radians.  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WidthInInches**

Attr Group: Properties  
Alt Display Name: Unit Width (in)  
Description: The effective width for wind area of the insulator structure  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Weight**

Attr Group: Properties  
Alt Display Name: Unit Weight (lbs)  
Description: Weight of the insulator / span holder in pounds  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT

Default: 8.99  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Sheds**

Attr Group: Properties  
Alt Display Name: Shed Count  
Description: Number of sheds  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: <Default>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: <Default> (<Default>)  
1 (1)  
2 (2)  
3 (3)  
4 (4)  
5 (5)  
6 (6)  
7 (7)  
8 (8)

### **Attr Name: WindDragCoef**

Attr Group: Properties  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: EndFitting**

Attr Group: Properties  
Alt Display Name: Line End Fitting  
Description: Line End Fitting  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Clamped  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Clamped (Clamped)  
Free (Free)

### **Attr Name: StalkMaterial**

Attr Group: Material  
Alt Display Name: Stalk Material  
Description: Stalk Material  
User Level Required: All user levels may access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME  
Default: <Default>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WorkingDataStore**

Description: Working Data

User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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## Span

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### Attr Name: CoordinateX

Description: The X coordinate relative to parent. SnapToParent will set the value  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default:  
ReadOnly: No  
Visible: No  
Incl When Subst: No

### Attr Name: CoordinateZ

Description: The Z coordinate relative to parent. SnapToParent will set the value  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default:  
ReadOnly: No  
Visible: No  
Incl When Subst: No

### Attr Name: SpanType

Description: What type of span is this (CATV, Telco, Primary, Secondary / Service)  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Primary  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Primary (Primary)  
Secondary (Secondary)  
Service (Service)  
Neutral (Neutral)  
Telco (Telco)  
CATV (CATV)  
Fiber (Fiber)  
Sub-Transmission (Sub-Transmission)  
Other (Other)  
Unknown (Unknown)

### Attr Name: Owner

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### Attr Name: Type

Alt Display Name: Description  
Description: The name, type, material, code, or other designation assigned to this span type by the owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Generic Span

ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The relative angle between this span its proximal connection at it's parent insulator or other holding structure  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: SpanDistanceInInches**

Alt Display Name: Span Length (ft)  
Description: The horizontal component of the distance between the proximal and distal ends of the span  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 600.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: SpanEndHeightDelta**

Alt Display Name: End Drop/Rise (ft)  
Description: The vertical component of the distance between the proximal and distal ends of the span  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: MidspanDeflection**

Attr Group: Tension Sag  
Alt Display Name: Span Sag (ft)  
Description: The vertical deflection between the proximal end of the span an the maximum deflection point of the catenary curve  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Tension Type**

Attr Group: Tension Sag

Description: Is the tension value calculated or static  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Static  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Static (The tension is a static normal constant supplied by the operator or other data source)  
Slack (The tension is a static slack constant supplied by the operator or other data source)  
Table (The tension is a table supplied by the operator or other data source)  
Sag to Tension (The tension is calculated based on the values entered for sag, weight, and LoadCase)  
Tension to Sag (The tension is based on initial stringing tension and LoadCase)

### **Attr Name: Tension**

Attr Group: Tension Sag  
Alt Display Name: Tension (lbs)  
Description: The tension value used only when "Tension Type" is "Static"  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: TensionTable**

Attr Group: Tension Sag  
Alt Display Name: Tension Table  
Description: The tension values table used only when "Tension Type" is "Table"  
User Level Required: All user levels may access this attribute  
Attr Type: TENSION\_TABLE  
Default: Tension;0,500;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: SlackTension**

Attr Group: Tension Sag  
Alt Display Name: Slack Tension (lbs)  
Description: The tension value used only when "Tension Type" is "Slack"  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 10.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: RatedStrength**

Attr Group: Tension Sag  
Alt Display Name: Rated Strength (lbs)  
Description: The rated strength in pounds.  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00



Attr Type: FLOAT  
Default: 5000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ConductorDiameter**

Alt Display Name: Span Diameter (in)  
Description: The conductor diameter in inches including the insulation.  
Displayed Units: store as INCHES display as  
INCHES or MILLIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0000  
Attr Type: FLOAT  
Default: 0.50  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: OverrideTemp**

Attr Group: Temperature  
Alt Display Name: Override Temp  
Description: Override Nominal Temperature  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Temperature**

Attr Group: Temperature  
Alt Display Name: Temp Nom (°f)  
Description: Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: TempMin**

Attr Group: Temperature  
Alt Display Name: Temp Min (°f)  
Description: Minimum Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 32  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: TempMax**

Attr Group: Temperature  
Alt Display Name: Temp Max (°f)  
Description: Maximum Temperature  
Displayed Units: store as FAHRENHEIT display as

FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 212  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PoundsPerInch**

Attr Group: Phys Const  
Alt Display Name: Span Weight (lbs/ft)  
Description: The weight per unit of running length  
Displayed Units: store as POUNDS PER IN display as  
POUNDS PER FT or KILOGRAMS PER METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0000  
Attr Type: FLOAT  
Default: 0.0076  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: ModulusOfElasticity**

Attr Group: Phys Const  
Alt Display Name: Modulus of Elasticity (psi)  
Description: ModulusOfElasticity  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 11200000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PercentSolid**

Attr Group: Phys Const  
Alt Display Name: Percent Solid  
Description: Percent Solid  
Displayed Units: store as PERCENT 0 TO 1 display as  
PERCENT 0 TO 100  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 0.75  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: ThermalCoefficient**

Attr Group: Phys Const  
Alt Display Name: Thermal Coef ((in/in)/°f)  
Description: ThermalCoefficient  
Displayed Units: store as THERMAL COEFFICIENT  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0000106  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: CreepCoefficient**

Attr Group: Phys Const  
Alt Display Name: Creep Coef ((in/in)/lb)  
Description: CreepCoefficient  
Displayed Units: store as CREEP COEFFICIENT  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: IceAccumulationFactor**

Attr Group: Tension Sag  
Alt Display Name: Ice Accum. Factor  
Description: Ice Accumulation Factor for Tension Calculations  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###  
Attr Type: FLOAT  
Default: 0.75  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindTensionFactor**

Attr Group: Tension Sag  
Description: Wind Factor for Tension Calculations  
Displayed Units: INVERTED  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: -1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindDragCoef**

Attr Group: Tension Sag  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: VerticalOffset**

Attr Group: Phys Const  
Alt Display Name: Vertical Offset (in)  
Description: Vertical Offset in Inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERZ  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: HorizontalOffset**

Attr Group: Phys Const  
Alt Display Name: Horizontal Offset (in)  
Description: Horizontal Offset in Inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERX  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: StopAtTap**

Attr Group: Phys Const  
Alt Display Name: Stop at Tap  
Description: Stop at Tap  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: HasInlineBox**

Attr Group: Junction  
Alt Display Name: Inline Junction  
Description: Flag set to indicate whether or not a span has an inline junction box on it  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: BoxOffset**

Attr Group: Junction  
Alt Display Name: Junc Box Offset (in)  
Description: The distance down a line where a junction box is located  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 15.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: BoxLength**

Attr Group: Junction  
Alt Display Name: Junc Box Len (in)  
Description: Junction box length in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 20.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: BoxDiameter**

Attr Group: Junction  
Alt Display Name: Junc Box Diam (in)  
Description: Junction box diameter in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 8.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: BoxWeight**

Attr Group: Junction  
Alt Display Name: Junc Box Weight (lbs)  
Description: Junction box weight in pounds  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 5.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: HasDripLoop**

Attr Group: DripLoop  
Alt Display Name: Drip Loop  
Description: Flag set to indicate whether or not a span has a drip loop on it  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: DripLoopOffset**

Attr Group: DripLoop  
Alt Display Name: Drip Loop Offset (in)  
Description: The distance down a line where a drip loop is located  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 2.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: DripLoopLength**

Attr Group: DripLoop  
Alt Display Name: Drip Loop Len (in)  
Description: Drip loop length in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 20.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: DripLoopHeight**

Attr Group: DripLoop  
Alt Display Name: Drip Loop Height (in)  
Description: Drip loop height in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 10.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Modifier**

Description: Special type modifier.  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: None  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Drop (Drop)  
Overlashed (Overlashed)  
Bundled (Bundled)  
Corrugated (Corrugated)  
Flexpipe (Flexpipe)  
Irregular (Irregular)  
None (None)  
(See Note) ((See Note))

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**SpanBundle**

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**Attr Name: CoordinateX**

Description: The X coordinate relative to parent. SnapToParent will set the value  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default:  
ReadOnly: No  
Visible: No  
Incl When Subst: No

**Attr Name: CoordinateZ**

Description: The Z coordinate relative to parent. SnapToParent will set the value  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default:  
ReadOnly: No  
Visible: No  
Incl When Subst: No

### **Attr Name: SpanType**

Description: What type of span is this (CATV, Telco, Primary, Secondary / Service)  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Span Bundle  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes  
Enum Values: Primary (Primary)  
Secondary (Secondary)  
Service (Service)  
Neutral (Neutral)  
Telco (Telco)  
CATV (CATV)  
Fiber (Fiber)  
Sub-Transmission (Sub-Transmission)  
Other (Other)  
Unknown (Unknown)

### **Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Type**

Alt Display Name: Description  
Description: The name, type, material, code, or other designation assigned to this span type by the owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Bundle  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Construction**

Alt Display Name: Bundle Type  
Description: Bundle Construction  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Overlashed  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Overlashed (Overlashed)  
Spacers (Spacers)  
Bonded (Bonded)  
Twist/Braid (Twist/Braid)  
Wrapped (Wrapped)  
Other (Other)

### **Attr Name: BundleIceMode**

Attr Group: Bundle Ice/Wind  
Alt Display Name: Bundle Ice Mode  
Description: Geometry for ice accumulation  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Individual  
ReadOnly: No  
Visible: Yes

Incl When Subst: Yes  
Enum Values: Individual (Individual)  
Min Circle (Min Circle)  
Convex Hull (Convex Hull)  
Concave Hull (Concave Hull)

### **Attr Name: BundleWindMode**

Attr Group: Bundle Ice/Wind  
Alt Display Name: Bundle Wind Mode  
Description: Geometry for wind area  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Individual  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Individual (Individual)  
Min Circle (Min Circle)  
Convex Hull (Convex Hull)  
Concave Hull (Concave Hull)

### **Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The relative angle between this span its proximal connection at it's parent insulator or other holding structure  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: SpanDistanceInInches**

Alt Display Name: Span Length (ft)  
Description: The horizontal component of the distance between the proximal and distal ends of the span  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 600.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: SpanEndHeightDelta**

Alt Display Name: End Drop/Rise (ft)  
Description: The vertical component of the distance between the proximal and distal ends of the span  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No



### **Attr Name:MidspanDeflection**

Attr Group: Tension Sag  
Alt Display Name: Span Sag (ft)  
Description: The vertical deflection between the proximal end of the span an the maximum deflection point of the catenary curve  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Tension Type**

Attr Group: Tension Sag  
Description: Is the tension value calculated or static  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Static  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Static (The tension is a static normal constant supplied by the operator or other data source)  
Slack (The tension is a static slack constant supplied by the operator or other data source)  
Table (The tension is a table supplied by the operator or other data source)  
Sag to Tension (The tension is calculated based on the values entered for sag, weight, and LoadCase)  
Tension to Sag (The tension is based on initial stringing tension and LoadCase)

### **Attr Name: Tension**

Attr Group: Tension Sag  
Alt Display Name: Tension (lbs)  
Description: The tension value used only when "Tension Type" is "Static"  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: TensionTable**

Attr Group: Tension Sag  
Alt Display Name: Tension Table  
Description: The tension values table used only when "Tension Type" is "Table"  
User Level Required: All user levels may access this attribute  
Attr Type: TENSION\_TABLE  
Default: Tension;0,500;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: SlackTension**

Attr Group: Tension Sag  
Alt Display Name: Slack Tension (lbs)  
Description: The tension value used only when "Tension Type" is "Slack"

Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 10.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: RatedStrength**

Attr Group: Tension Sag  
Alt Display Name: Msgr Rated Strength (lbs)  
Description: The rated strength in pounds.  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 5000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: ConductorDiameter**

Alt Display Name: Msgr Diam (in)  
Description: The conductor diameter in inches including the insulation.  
Displayed Units: store as INCHES display as  
INCHES or MILLIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0000  
Attr Type: FLOAT  
Default: 0.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: OverrideTemp**

Attr Group: Temperature  
Alt Display Name: Override Temp  
Description: Override Nominal Temperature  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Temperature**

Attr Group: Temperature  
Alt Display Name: Temp Nom (°f)  
Description: Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 65  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: TempMin**

Attr Group: Temperature  
Alt Display Name: Temp Min (°f)  
Description: Minimum Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 32  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: TempMax**

Attr Group: Temperature  
Alt Display Name: Temp Max (°f)  
Description: Maximum Temperature  
Displayed Units: store as FAHRENHEIT display as  
FAHRENHEIT or Celsius  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 212  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PoundsPerInch**

Attr Group: Phys Const  
Alt Display Name: Msgr Span Weight (lbs/ft)  
Description: The weight per unit of running length  
Displayed Units: store as POUNDS PER IN display as  
POUNDS PER FT or KILOGRAMS PER METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0000  
Attr Type: FLOAT  
Default: 0.0076  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: ModulusOfElasticity**

Attr Group: Phys Const  
Alt Display Name: Msgr Modulus of Elasticity (psi)  
Description: ModulusOfElasticity  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00##E+0  
Attr Type: FLOAT  
Default: 11200000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: PercentSolid**

Attr Group: Phys Const  
Alt Display Name: Msgr Percent Solid  
Description: Percent Solid  
Displayed Units: store as PERCENT 0 TO 1 display as  
PERCENT 0 TO 100  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 0.75  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes

### **Attr Name: ThermalCoefficient**

Attr Group: Phys Const  
Alt Display Name: Msgr Thermal Coef ((in/in)/°f)  
Description: ThermalCoefficient  
Displayed Units: store as THERMAL COEFFICIENT  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0000106  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: CreepCoefficient**

Attr Group: Phys Const  
Alt Display Name: Msgr Creep Coef ((in/in)/lb)  
Description: CreepCoefficient  
Displayed Units: store as CREEP COEFFICIENT  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: IceAccumulationFactor**

Attr Group: Tension Sag  
Alt Display Name: Ice Accum. Factor  
Description: Ice Accumulation Factor for Tension Calculations  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###  
Attr Type: FLOAT  
Default: 0.75  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindTensionFactor**

Attr Group: Tension Sag  
Description: Wind Factor for Tension Calculations  
Displayed Units: INVERTED  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: -1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindDragCoef**

Attr Group: Tension Sag  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes

Incl When Subst: Yes

### **Attr Name: VerticalOffset**

Attr Group: Phys Const  
Alt Display Name: Vertical Offset (in)  
Description: Vertical Offset in Inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERZ  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: HorizontalOffset**

Attr Group: Phys Const  
Alt Display Name: Horizontal Offset (in)  
Description: Horizontal Offset in Inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERX  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: StopAtTap**

Attr Group: Phys Const  
Alt Display Name: Stop at Tap  
Description: Stop at Tap  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: HasInlineBox**

Alt Display Name: Inline Junction  
Description: Flag set to indicate whether or not a span has an inline junction box on it  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: No  
Incl When Subst: No

### **Attr Name: BoxOffset**

Alt Display Name: Junc Box Offset (in)  
Description: The distance down a line where a junction box is located  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 15.00  
ReadOnly: No  
Visible: No  
Incl When Subst: No

**Attr Name: BoxLength**

Alt Display Name: Junc Box Len (in)  
Description: Junction box length in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 20.00  
ReadOnly: No  
Visible: No  
Incl When Subst: No

**Attr Name: BoxDiameter**

Alt Display Name: Junc Box Diam (in)  
Description: Junction box diameter in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 8.00  
ReadOnly: No  
Visible: No  
Incl When Subst: No

**Attr Name: BoxWeight**

Alt Display Name: Junc Box Weight (lbs)  
Description: Junction box weight in pounds  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 5.00  
ReadOnly: No  
Visible: No  
Incl When Subst: No

**Attr Name: HasDripLoop**

Attr Group: DripLoop  
Alt Display Name: Drip Loop  
Description: Flag set to indicate whether or not a span has a drip loop on it  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: DripLoopOffset**

Attr Group: DripLoop  
Alt Display Name: Drip Loop Offset (in)  
Description: The distance down a line where a drip loop is located  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 2.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: DripLoopLength**

Attr Group: DripLoop  
Alt Display Name: Drip Loop Len (in)  
Description: Drip loop length in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 20.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: DripLoopHeight**

Attr Group: DripLoop  
Alt Display Name: Drip Loop Height (in)  
Description: Drip loop height in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 10.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Modifier**

Description: Special type modifier.  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: None  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes  
Enum Values: Drop (Drop)  
Overlashed (Overlashed)  
Bundled (Bundled)  
Corrugated (Corrugated)  
Flexpipe (Flexpipe)  
Irregular (Irregular)  
None (None)  
(See Note) ((See Note))

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**Tap**

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**Attr Name: Description**

Description: Description of the tap  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Flying Tap  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Base Angle (°)  
Description: Angle  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: OffsetInches**

Alt Display Name: Offset (ft)  
Description: Offset from start of pole  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERX  
Default: 60  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**PowerEquipment**

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**Attr Name: CoordinateX**

Alt Display Name: Pole Radius at Height (in)  
Description: Internal attribute which holds the radius of the pole at the given height.  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 10  
ReadOnly: No  
Visible: No  
Incl When Subst: No



**Attr Name: Description**

Description: Description or Transformer Catalog name  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: 1PH- 25KVA  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateZ**

Alt Display Name: Install Height (ft)  
Description: The distance in inches from the butt of the pole to the center of the transformer can  
Displayed Units: store as HEIGHT from BUTT in INCHES display as HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 420  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: Angle of bank relative to the parent structure (typically pole)  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Pole Gap**

Alt Display Name: Gap (in)  
Description: Distance between pole and can in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 6  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Type**

Description: Equipment Type  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED

Default: Transformer  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Transformer (Transformer)  
Regulator (Voltage Regulator)  
Capacitor (Capacitor)  
Switch (Switch)  
Fuse (Switch)  
Box (Misc Box)

### **Attr Name: Mount**

Description: The type of mount used to install the equipment  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Pole (Standard pole bank mount)  
Rack (Equipment are mounted on a rack which is mounted to the pole)

### **Attr Name: Qty**

Alt Display Name: Unit Count  
Description: Number of units  
User Level Required: All user levels may access this attribute  
Attr Type: PLUSMINUS  
Default: 1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Array Angle**

Alt Display Name: Unit Spacing (°)  
Description: Angle between cans  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 1.5707963267949  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Rack Spacing**

Alt Display Name: Rack Spacing (in)  
Description: The distance between items on a rack  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DiameterInInches**

Alt Display Name: Unit Diameter/Width (in)  
Description: The Diameter of the transformer can in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS

User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 22  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: HeightInInches**

Alt Display Name: Unit Height (in)  
Description: The Height of the transformer can in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 39  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: DepthInInches**

Alt Display Name: Unit Depth (in)  
Description: The Depth of the transformer can in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 39  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Alt Display Name: Unit Weight (lbs)  
Description: The weight of each individual transformer can in pounds  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 365.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindDragCoef**

Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:

ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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## Streetlight

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### Attr Name: CoordinateX

Description: The horizontal position of the base plate relative to the center of the pole in inches

User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default:  
ReadOnly: No  
Visible: No  
Incl When Subst: No

### Attr Name: Description

Description: Description of streetlight  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Streetlight  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### Attr Name: Owner

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### Attr Name: Type

Description: General type of light to model.  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: General  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: General (General)  
Decorative (Decorative)  
Spot Light (Spot Light)  
Flood Light (Flood Light)  
Traffic Signal (Traffic Signal)

### Attr Name: CoordinateZ

Alt Display Name: Install Height (ft)  
Description: The distance fromt the center of the base plate to the butt of the pole in inches

Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 300.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The angle of the streetlight relative to the parent structure in radians  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LengthInInches**

Alt Display Name: Arm Length (in)  
Description: The horizontal length from the face of the pole to the tip of the streetlight  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 96.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ArmDiameterInInches**

Alt Display Name: Arm Diameter (in)  
Description: The diameter or thickness of the arm of the streetlight assembly  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ArmRiseInInches**

Alt Display Name: Arm Rise (in)  
Description: The horizontal length from the face of the pole to the tip of the streetlight  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 25.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CanDiameterInInches**

Alt Display Name: Can Diameter (in)  
Description: The diameter or thickness of the light fixture at the tip of the streetlight assembly  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT

Default: 22.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CanHeightInInches**

Alt Display Name: Can Height (in)  
Description: The height of the can of the light fixture  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 9.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Alt Display Name: Equip Weight(lbs)  
Description: Weight of the streetlight in pounds  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 40.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindDragCoef**

Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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[GuyBrace](#)

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**Attr Name: Description**

Description: Guy wire description  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Type**

Description: Type  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Down  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Down (Down Guy)  
Span/Head (Span Guy)  
Sidewalk (Sidewalk Guy)  
Crossarm (Crossarm Guy)  
Pushbrace (Pushbrace)

**Attr Name: CoordinateZ**

Alt Display Name: Install Height (ft)  
Description:  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 453  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: StrutHeightInInches**

Attr Group: Sidewalk  
Alt Display Name: Strut Height (ft)  
Description: Height of the strut from groundline if it is a sidewalk guy  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 405  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutLengthInInches**

Attr Group: Sidewalk  
Alt Display Name: Strut Length (ft)  
Description: The length of the strut if it is a sidewalk guy  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 48  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutDiameter**

Attr Group: Sidewalk  
Alt Display Name: Strut Diameter (in)  
Description: The diameter of the strut  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 1.25  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutWeightPerIn**

Attr Group: Sidewalk  
Alt Display Name: Strut Weight/Len (lbs/ft)  
Description: The weight of the strut in lbs per unit length  
Displayed Units: store as POUNDS PER IN display as  
POUNDS PER FT or KILOGRAMS PER METER  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.189167  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutCapacity**

Attr Group: Sidewalk  
Alt Display Name: Allowable Strut Load (lbs)  
Description: The capacity of the strut in lbs  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: FLOAT  
Default: 2500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutBendingMomentMax**

Attr Group: Sidewalk  
Alt Display Name: Max Strut Moment Cap (ft-lbs)  
Description: The bending moment capacity of the strut in ft-lbs  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 800  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutFixity**

Attr Group: Sidewalk  
Alt Display Name: Strut Fixity  
Description: The fixity of the strut  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED



Default: Pinned  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Fixed (Strut Fixed)  
Pinned (Strut Pinned)

**Attr Name: MergeStruts**

Attr Group: Sidewalk  
Alt Display Name: Merge Like Struts  
Description: Merge with like struts at same position,  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: DeltaHeightInInches**

Alt Display Name: Span Guy DeltaHt (ft)  
Description: Difference in height of the far end if it is a span guy  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Diameter**

Alt Display Name: Diameter (in)  
Description: Guy wire diameter in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 0.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PercentSolid**

Alt Display Name: Percent Solid  
Description: Percent Solid  
Displayed Units: store as PERCENT 0 TO 1 display as  
PERCENT 0 TO 100  
User Level Required: Limited users can NOT access this attribute  
Attr Type: FLOAT  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PreTension**

Alt Display Name: Pre-tension (lbs)  
Description: Pre-tension in pounds  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00

Attr Type: FLOAT  
Default: 700  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: VerticalOffset**

Attr Group: Control  
Alt Display Name: Vertical Offset (in)  
Description: Vertical Offset in Inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERZ  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: HorizontalOffset**

Attr Group: Control  
Alt Display Name: Horizontal Offset (in)  
Description: Horizontal Offset in Inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Attr Type: TRACKERX  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LateralOffset**

Attr Group: Control  
Alt Display Name: Lateral Offset (in)  
Description: LateralOffset Offset in Inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Tension Mode**

Attr Group: Control  
Description: Tension mode  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Calculated  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Calculated (Calculated)  
Manual (Manual)

### **Attr Name: Tension**

Attr Group: Control  
Alt Display Name: Man Tension (lbs)  
Description: Tension in pounds  
Displayed Units: store as POUNDS display as

POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 1500  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RTS Strength**

Alt Display Name: Strength (lbs)  
Description: RTS Strength in pounds  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 26900  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PoundsPerInch**

Alt Display Name: Weight (lbs/ft)  
Description: Linear weight in pounds per inch of length  
Displayed Units: store as POUNDS PER IN display as POUNDS PER FT or KILOGRAMS PER METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0000  
Attr Type: FLOAT  
Default: 0.03408  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ModulusOfElasticity**

Alt Display Name: Modulus of Elasticity (psi)  
Description: ModulusOfElasticity  
Displayed Units: store as PSI display as PSI or KILOPASCAL  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 26000000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindDragCoef**

Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GuyMaterial**

Attr Group: Material Override  
Alt Display Name: Guy Material  
Description: Guy Material

User Level Required: All user levels may access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME  
Default: <Default>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: StrutMaterial**

Attr Group: Material Override  
Alt Display Name: Strut Material  
Description: Strut Material  
User Level Required: All user levels may access this attribute  
Attr Type: CHILD\_MATERIAL\_NAME  
Default: <Default>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**Riser**

---

**Attr Name: Description**

Description: Description of the riser  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Riser  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Install Angle (°)  
Description: Install Angle  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 1.5707963267949  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: DiameterInInches**

Alt Display Name: Diameter (in)  
Description: The diameter of the riser  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 3.5  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: OffsetInInches**

Alt Display Name: Standoff (in)  
Description: The offset if the riser is on standoffs  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.000  
Attr Type: TRACKERX  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LengthAboveGLInInches**

Alt Display Name: Length AGL (ft)  
Description: The length above GL  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERZ  
Default: 300  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PoundsPerInch**

Attr Group: Load Analysis  
Alt Display Name: Weight (lbs/ft)  
Description: The weight in pounds per inch of running length  
Displayed Units: store as POUNDS PER IN display as  
POUNDS PER FT or KILOGRAMS PER METER  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0000  
Attr Type: FLOAT  
Default: 0.0833333  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Apply Wind**

Attr Group: Load Analysis  
Description: Apply wind to the riser?  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindDragCoef**

Attr Group: Load Analysis  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Wind Shadowing**

Attr Group: Load Analysis  
Description: Does the pole shadow wind on the riser?  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Self Supporting**

Attr Group: Load Analysis  
Description: Is the riser vertically self supporting?  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**GenericEquipment**

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**Attr Name: CoordinateX**

Description: The distance in inches from the center of the parent pole to the point where the bracket is bolted to the pole  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 10  
ReadOnly: No  
Visible: No  
Incl When Subst: No

**Attr Name: Description**

Description: Description of equipment  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Generic Equipment  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateZ**

Alt Display Name: Height (ft)  
Description: The distance in inches from the bottom of the parent (butt of the pole for example) to the center of the equipment  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 420  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateZ\_Rel**

Alt Display Name: Relative Height (in)  
Description: The distance in inches from the bottom of the parent (butt of the pole for example) to the center of the equipment  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: Angle of equipment relative to the parent structure (typically pole)  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Parent Gap**

Alt Display Name: Relative Gap (in)  
Description: Distance between parent and equipment in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 6  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Shape**

Attr Group: Specifications  
Description: Shape of equipment  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Box  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Box (Box)  
Cylinder (Cylinder)  
Imported (Imported)

### **Attr Name: Points**

Attr Group: Specifications  
Description: The points defining the shape  
User Level Required: All user levels may access this attribute  
Attr Type: SHAPE\_DEFINITION  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DiameterOrWidthInInches**

Attr Group: Specifications  
Alt Display Name: Unit Width/Diameter (in)  
Description: The Diameter or Width in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: DepthInInches**

Attr Group: Specifications  
Alt Display Name: Unit Depth (in)  
Description: The Depth in inches which is only used if the shape of the equipment is  
a box  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: HeightInInches**

Attr Group: Specifications  
Alt Display Name: Unit Height (in)  
Description: The Height in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 12  
ReadOnly: No



Visible: Yes  
Incl When Subst: Yes

**Attr Name: Pitch**

Alt Display Name: Pitch (°)  
Description: Pitch in radians.  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Roll**

Alt Display Name: Roll (°)  
Description: Roll in radians.  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Yaw**

Alt Display Name: Yaw (°)  
Description: Yaw in radians.  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: All user levels may access this attribute  
Format Expression: 0.0  
Attr Type: TRACKERA  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Attr Group: Specifications  
Alt Display Name: Unit Weight (lbs)  
Description: The weight of the element in pounds  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 10.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindDragCoef**

Attr Group: Specifications  
Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT

Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Color**

Attr Group: Specifications  
Alt Display Name: Display Color  
Description: The color of the element  
User Level Required: Limited users can NOT access this attribute  
Attr Type: COLOR  
Default: #FF4682B4  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShowLabel**

Attr Group: Specifications  
Alt Display Name: Show Label  
Description: Indicates if the label is displayed  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: TextColor**

Attr Group: Specifications  
Alt Display Name: Label Color  
Description: The color of the element's text  
User Level Required: Limited users can NOT access this attribute  
Attr Type: COLOR  
Default: #FFFFFF00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**PoleRestoration**

---

**Attr Name: Type**

Description: Type of restoration  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: C2  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: C (Osmose C Truss)  
C2 (Osmose C2 Truss)  
ET (Osmose ET Truss)  
FiberWrap (Osmose FiberWrap)  
FiberWrap II (Osmose FiberWrap II)

Truss (Other Truss)  
Wrap (Other Pole Wrap)

### **Attr Name: Description**

Description: Description of the restoration  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Osmose  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: LengthInInches**

Alt Display Name: Length (ft)  
Description: The length in iches  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 120.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: MomentCapacityTable**

Alt Display Name: Moment Added (ft-lb)  
Description: The moment capacity table  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: MOMENT\_TABLE  
Default: Moment;0,10000;  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: CoordinateZ**

Alt Display Name: Top Of Restoration (ft)  
Description: Distance from the butt of the pole to the top of the truss or wrap  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 160.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation angle around the center of the pole

Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

## Clearance

---

**Attr Name: Description**

Description: Description of the clearance item  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Clearance  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Group**

Alt Display Name: Clearance Group  
Description: The clearance group  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Primary Span  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Primary Span (Primary Span)  
Secondary (Secondary)  
Telco (Telco)

**Attr Name: Render**

Alt Display Name: Render in 3D view  
Description: Render  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Mode**

Alt Display Name: Population Mode  
Description: The population  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Automatic  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

Enum Values: Manual (Manual)  
Automatic (Automatic)  
External (External)

**Attr Name: SagMinimum**

Alt Display Name: Sag Minimum (ft)  
Description: The vertical deflection minimum  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: SagNominal**

Alt Display Name: Sag Nominal (ft)  
Description: The vertical deflection nominal  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: SagMaximum**

Alt Display Name: Sag Maximum (ft)  
Description: The vertical deflection maximum  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

## SpanAddition

---

**Attr Name: Description**

Description: Description of the span addition item  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Span Addition  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Type**

Alt Display Name: Addition Type  
Description: The type of the span addition item  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Aviation Ball  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Cut-Out (Cut-Out)  
Splice (Splice)  
Damper (Damper)  
Aviation Ball (Aviation Ball)  
Perch Stopper (Perch Stopper)  
Maintenance Loop (Maintenance Loop)  
Other (Other)

**Attr Name: OffsetInches**

Alt Display Name: Offset Dist (ft)  
Description: Offset distance from pole  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 120.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Size**

Alt Display Name: Size (in)  
Description: Size of the addition in the primary dimension  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 20.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Alt Display Name: Weight (lbs)  
Description: Weight of the addition  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 7.00  
ReadOnly: No

Visible: Yes  
Incl When Subst: Yes

### **Attr Name: WindDragCoef**

Alt Display Name: Wind Drag Coef.  
Description: Wind Drag Coefficient  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0###  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: LoopOrientation**

Attr Group: Loop  
Alt Display Name: Loop Orientation  
Description: The loop orientation  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Vertical  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Vertical (Vertical)  
Horizontal (Horizontal)

### **Attr Name: LoopPosition**

Attr Group: Loop  
Alt Display Name: Loop Position  
Description: The loop position  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Minus  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Plus (Plus)  
Center (Center)  
Minus (Minus)

### **Attr Name: LeadOne**

Attr Group: Loop  
Alt Display Name: Lead One  
Description: Lead one  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: LeadOnePosition**

Attr Group: Loop  
Alt Display Name: Lead One Position  
Description: The lead one position  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Minus  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Plus (Plus)

Center (Center)  
Minus (Minus)

**Attr Name: LeadOneOffset**

Attr Group: Loop  
Alt Display Name: Lead One Offset (ft)  
Description: Lead One offset distance from pole  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 80.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LeadTwo**

Attr Group: Loop  
Alt Display Name: Lead Two  
Description: Lead two  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LeadTwoPosition**

Attr Group: Loop  
Alt Display Name: Lead Two Position  
Description: The lead one position  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Plus  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Plus (Plus)  
Center (Center)  
Minus (Minus)

**Attr Name: LeadTwoOffset**

Attr Group: Loop  
Alt Display Name: Lead Two Offset (ft)  
Description: Loop top offset distance from pole  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 80.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes



Visible: No  
Incl When Subst: No

---

## WoodPoleDamageOrDecay

---

### Attr Name: Type

Description: Type of damage or decay  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Void  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Vehicle Scrape (Vehicle Scrape)  
Saw Cut (Saw Cut)  
Mower Cut (Mower Cut)  
Exposed Pocket (Exposed Pocket)  
Enclosed Pocket (Enclosed Pocket)  
Void (Void)  
Heart Rot (Heart Rot)  
Shell Reduction (Shell Reduction)  
Woodpecker Hole (Woodpecker Hole)  
Woodpecker Nest (Woodpecker Nest)

### Attr Name: Description

Description: Brief description of the damage  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### Attr Name: Owner

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### Attr Name: WidthInInches

Alt Display Name: Width (in)  
Description: The width in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### Attr Name: HeightInInches

Alt Display Name: Height (in)  
Description: The height in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00

Attr Type: TRACKERZ  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: DepthInInches**

Alt Display Name: Depth (in)  
Description: The depth in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShellThicknessInInches**

Alt Display Name: Shell Thick (in)  
Description: Shell thickness in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 4.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ReducedCircumference**

Alt Display Name: Reduced Circum (in)  
Description: Shell reduced circumference in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 1  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: EntryWidthInInches**

Alt Display Name: Entry Width (in)  
Description: The entry width in inches  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CoordinateZ**

Alt Display Name: Location (ft)  
Description: Distance from the butt of the pole to center of damage or decay  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS

User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 120.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation angle around the center of the pole  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

## CapacityAdjustment

---

**Attr Name: Description**

Description: Brief description of the damage  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: HeightInInches**

Alt Display Name: Height (in)  
Description: The height in inches  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: CoordinateZ**

Alt Display Name: Location (ft)  
Description: Distance from the butt of the pole to center of damage or decay  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 120.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation angle around the center of the pole  
Displayed Units: store as RADIANS display as  
DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: MomentCapacity**

Alt Display Name: Moment Cap (ft-lb)  
Description: The moment capacity  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 50000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BucklingCapacity**

Alt Display Name: Buckling Cap (lbs)  
Description: The buckling capacity  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: All user levels may access this attribute  
Attr Type: FLOAT  
Default: 5000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**Attr Name: Pole Number**

Description: Structure ID  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: ReportingMode**

Alt Display Name: Reporting Mode  
Description: Reporting Mode  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Active Leg  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Active Leg (Active Leg)  
Worst Leg (Worst Leg)

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**LatticeStructure**

---

**Attr Name: Pole Number**

Description: Structure ID  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Unset  
ReadOnly: No

Visible: Yes  
Incl When Subst: No

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Pole  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: LineOfLead**

Alt Display Name: Line of Lead (°)  
Description: The overall line of lead of the entire pole assembly  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: NodeRenderDiam**

Alt Display Name: Node Render (in)  
Description: Node render diameter  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BeamRenderDiam**

Alt Display Name: Beam Render (in)  
Description: Beam render diameter  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 6  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RenderLoads**

Alt Display Name: Render Loads  
Description: Render loads  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GravitationalAccelerationX**

Attr Group: Gravity  
Alt Display Name: Grav Accel X (ft/s/s)  
Description: GravitationalAccelerationX  
Displayed Units: store as INCHES PERSEC PERSEC display as  
FEET PERSEC PERSEC or METERS PERSEC PERSEC  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GravitationalAccelerationY**

Attr Group: Gravity  
Alt Display Name: Grav Accel Y (ft/s/s)  
Description: GravitationalAccelerationY  
Displayed Units: store as INCHES PERSEC PERSEC display as  
FEET PERSEC PERSEC or METERS PERSEC PERSEC  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: GravitationalAccelerationZ**

Attr Group: Gravity  
Alt Display Name: Grav Accel Z (ft/s/s)  
Description: GravitationalAccelerationZ  
Displayed Units: store as INCHES PERSEC PERSEC display as  
FEET PERSEC PERSEC or METERS PERSEC PERSEC  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 2.68116666666667  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**LatticeSection**

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**Attr Name: Description**

Description: Description of the section  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Section  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the section  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: CoordinateZ**

Alt Display Name: Z (ft)  
Description: Section Z relative to groundline  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Width**

Alt Display Name: Width X (ft)  
Description: Distance between min and max X  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Depth**

Alt Display Name: Depth Y (ft)  
Description: Distance between min and max Y  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Height**

Alt Display Name: Height Z (ft)  
Description: Distance between min and max Z  
Displayed Units: store as INCHES display as FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: OverrideRendering**

Attr Group: Rendering  
Alt Display Name: Override Rendering



Description: Indicates if the rendering is controlled by this section  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: NodeRenderDiam**

Attr Group: Rendering  
Alt Display Name: Node Render (in)  
Description: Node render diameter  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 20  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BeamRenderDiam**

Attr Group: Rendering  
Alt Display Name: Beam Render (in)  
Description: Beam render diameter  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RenderLoads**

Attr Group: Rendering  
Alt Display Name: Render Loads  
Description: Render loads  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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LatticeGroup

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**Attr Name: Description**

Description: Description of the group  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING

Default: Group  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Name**

Description: Name of the group  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <tbid>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Width**

Alt Display Name: Width X (ft)  
Description: Distance between min and max X  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Depth**

Alt Display Name: Depth Y (ft)  
Description: Distance between min and max Y  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Height**

Alt Display Name: Height Z (ft)  
Description: Distance between min and max Z  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: OverrideRendering**

Attr Group: Rendering  
Alt Display Name: Override Rendering  
Description: Indicates if the rendering is controlled by this section  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: NodeRenderDiam**

Attr Group: Rendering  
Alt Display Name: Node Render (in)  
Description: Node render diameter  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 20  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BeamRenderDiam**

Attr Group: Rendering  
Alt Display Name: Beam Render (in)  
Description: Beam render diameter  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RenderLoads**

Attr Group: Rendering  
Alt Display Name: Render Loads  
Description: Render loads  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**Material**

---

**Attr Name: Description**

Description: Description of the material  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Material  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the material  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <tbid>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: PoissonsRatio**

Attr Group: Constants  
Alt Display Name: Poisson's Ratio  
Description: Poisson's Ratio  
User Level Required: Administrative access only  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 0.49  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: YoungsModulus**

Attr Group: Constants  
Alt Display Name: Modulus of Elasticity (psi)  
Description: YoungsModulus  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 20000000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Density**

Attr Group: Constants  
Alt Display Name: Density (lb/ft<sup>3</sup>)  
Description: Density for the material in lbs per cubic inch  
Displayed Units: store as POUNDS PER CUBIC INCH display as  
POUNDS PER CUBIC FOOT or KILOGRAMS PER CUBIC METER  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0347222222222222  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ThermalCoefficient**

Attr Group: Constants  
Alt Display Name: Thermal Coef ((in/in)/°f)  
Description: ThermalCoefficient  
Displayed Units: store as THERMAL COEFFICIENT  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0000106  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShearAreaY**

Attr Group: Shear

Alt Display Name: Shear Area Y (in<sup>2</sup>)  
Description: Shear Area Y  
Displayed Units: store as IN2 display as  
IN2 or CM2  
User Level Required: Administrative access only  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 8  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShearAreaZ**

Attr Group: Shear  
Alt Display Name: Shear Area Z (in<sup>2</sup>)  
Description: Shear Area Z  
Displayed Units: store as IN2 display as  
IN2 or CM2  
User Level Required: Administrative access only  
Format Expression: 0.00##  
Attr Type: FLOAT  
Default: 8  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShearModulus**

Attr Group: Shear  
Alt Display Name: Shear Modulus (psi)  
Description: Shear Modulus  
Displayed Units: store as PSI display as  
PSI or KILOPASCAL  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 8000000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShearStrengthY**

Attr Group: Shear  
Alt Display Name: Shear Strength Y (lbs)  
Description: The shear strength of the beam  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 45000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShearStrengthZ**

Attr Group: Shear  
Alt Display Name: Shear Strength Z (lbs)  
Description: The shear strength of the beam  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 45000  
ReadOnly: Yes

Visible: Yes  
Incl When Subst: Yes

**Attr Name: BucklingStrength**

Attr Group: Capacity  
Alt Display Name: Buckling Strength (lbs)  
Description: The buckling strength of the beam  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 45000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: TensionStrength**

Attr Group: Capacity  
Alt Display Name: Tensile Strength (lbs)  
Description: The tensile strength of the beam  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 45000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentCapacityY**

Attr Group: Capacity  
Alt Display Name: Moment Capacity Y (ft-lbs)  
Description: Total allowable bending moment  
Displayed Units: store as FTLBS display as FTLBS or NEWTONMETERS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 2000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentCapacityZ**

Attr Group: Capacity  
Alt Display Name: Moment Capacity Z (ft-lbs)  
Description: Total allowable bending moment  
Displayed Units: store as FTLBS display as FTLBS or NEWTONMETERS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 2000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentCapacityX**

Attr Group: Capacity  
Alt Display Name: Torque Capacity (ft-lbs)  
Description: Total allowable bending moment

Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Administrative access only  
Format Expression: 0  
Attr Type: FLOAT  
Default: 2000  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Area**

Attr Group: Dimensions  
Alt Display Name: Area (in<sup>2</sup>)  
Description: Cross sectional area  
Displayed Units: store as IN2 display as  
IN2 or CM2  
User Level Required: Administrative access only  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 11  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: DimensionY**

Attr Group: Dimensions  
Alt Display Name: Dimension Y (in)  
Description: Dimension in the Y axis  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Administrative access only  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 6  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: DimensionZ**

Attr Group: Dimensions  
Alt Display Name: Dimension Z (in)  
Description: Dimension in the Z axis  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Administrative access only  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 6  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: IcePerimiter**

Attr Group: Dimensions  
Alt Display Name: Ice Perimiter (in)  
Description: Ice accumulation perimiter (effective)  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Administrative access only  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 6  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WindArea**

Attr Group: Dimensions  
Alt Display Name: Wind Area (in<sup>2</sup>/ft)  
Description: Wind area per unit length  
Displayed Units: store as SQINPERIN display as  
SQINPERFOOT or SQCMPERMETER  
User Level Required: Administrative access only  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 11  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Iyy**

Attr Group: Moments  
Alt Display Name: Ixx - 2nd MOA (in<sup>4</sup>)  
Description: Second moment of area in the horizontal axis  
Displayed Units: store as IN4 display as  
IN4 or CM4  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 400  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Izz**

Attr Group: Moments  
Alt Display Name: Izz - 2nd MOA (in<sup>4</sup>)  
Description: Second moment of area in the vertical axis  
Displayed Units: store as IN4 display as  
IN4 or CM4  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 400  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Jxx**

Attr Group: Moments  
Alt Display Name: Jyy - 2nd MOA (in<sup>4</sup>)  
Description: Second moment of area in the radial axis  
Displayed Units: store as IN4 display as  
IN4 or CM4  
User Level Required: Administrative access only  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 200  
ReadOnly: Yes  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes



Visible: No  
Incl When Subst: No

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## Node

---

### **Attr Name: Description**

Description: Description of the node  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Node  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: Name**

Description: Name of the node  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <tbid>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: CoordinateX**

Alt Display Name: X Coord (ft)  
Description: Node X relative to center  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateY**

Alt Display Name: Y Coord (ft)  
Description: Node Y relative to center  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateZ**

Alt Display Name: Z Coord (ft)  
Description: Node Z relative to section  
Displayed Units: store as INCHES display as  
FEET or METERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: NodeRadius**

Attr Group: Parameters  
Alt Display Name: Node Radius (in)  
Description: Node radius (plate size)  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: ShearStrength**

Attr Group: Parameters  
Alt Display Name: Shear Strength (lbs)  
Description: The shear strength of the node  
Displayed Units: store as POUNDS display as  
POUNDS or KILOGRAMS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0  
Attr Type: FLOAT  
Default: 45000  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MergeNode**

Attr Group: Merge Nodes  
Alt Display Name: Merge Nodes  
Description: Indicates if the node is to be merged with proximal nodes  
User Level Required: Limited users can NOT access this attribute  
Attr Type: BOOLEAN  
Default: Yes  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MergeTolerance**

Attr Group: Merge Nodes  
Alt Display Name: Merge Tolerance (in)  
Description: Max distance node is to be merged with proximal nodes  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.000  
Attr Type: FLOAT  
Default: 2  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: OverrideRendering**

Attr Group: Rendering  
Alt Display Name: Override Rendering  
Description: Indicates if the rendering is controlled by this section  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: NodeRenderDiam**

Attr Group: Rendering  
Alt Display Name: Node Render (in)  
Description: Node render diameter  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 20  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**NodeJunction**

---

**Attr Name: Description**

Description: Description of the insulator.  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: Junction  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Owner**

Description: Owner  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <Undefined>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: Node**

Description: Node  
User Level Required: All user levels may access this attribute  
Attr Type: STRING  
Default: <node>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

**Attr Name: CoordinateZ**

Alt Display Name: Install Height (ft)  
Description: The Z coordinate relative to the parent. This value is frequently set by  
SnapToParent  
Displayed Units: store as HEIGHT from BUTT in INCHES display as  
HEIGHT from GL in FEET or METERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00

Attr Type: TRACKERZ  
Default: 300.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: CoordinateA**

Alt Display Name: Rotation (°)  
Description: The rotation of the insulator / span holder relative to its parent. If the orientation is non-zero the stalk with lean along this axis  
Displayed Units: store as RADIANS display as DEGREES  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERA  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: Side**

Alt Display Name: Position  
Description: The junction position.  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Inline  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No  
Enum Values: Tip (Tip)  
Street (Street)  
Field (Field)  
Inline (Inline)  
Front (Front)  
Back (Back)  
Both (Both)

### **Attr Name: CoordinateX**

Alt Display Name: Horizontal Offset (in)  
Description: Distance from the center of the parent. In the case of a crossarm this is the position along the arm. In the case of poles this is typically set by SnapToParent  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERX  
Default: 0.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: No

### **Attr Name: WidthInInches**

Alt Display Name: Unit Width (in)  
Description: The effective width for wind area of the junction bolt  
Displayed Units: store as INCHES display as INCHES or CENTIMETERS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 3.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Weight**

Alt Display Name: Unit Weight (lbs)  
Description: Weight of the junction in pounds  
Displayed Units: store as POUNDS display as POUNDS or KILOGRAMS  
User Level Required: All user levels may access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 1.00  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**NodeConstraint**

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**Attr Name: Description**

Description: Description of the constraint  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Constraint  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the constraint  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LateralConstraints**

Alt Display Name: Lateral Constraints  
Description: Lateral Constraints  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: X,Y,Z  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: None (None)  
X,Y,Z (X,Y,Z)  
X (X)  
Y (Y)  
Z (Z)  
X,Y (X,Y)  
X,Z (X,Z)  
Y,Z (Y,Z)

**Attr Name: RotationConstraints**

Alt Display Name: Rotation Constraints

Description: Rotation Constraints  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: XX,YY,ZZ  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: None (None)  
XX,YY,ZZ (XX,YY,ZZ)  
XX (XX)  
YY (YY)  
ZZ (ZZ)  
XX,YY (XX,YY)  
XX,ZZ (XX,ZZ)  
YY,ZZ (YY,ZZ)

### **Attr Name: RotationHinges**

Alt Display Name: Rotation Hinges  
Description: Rotation Hinges  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: None  
ReadOnly: No  
Visible: No  
Incl When Subst: Yes  
Enum Values: None (None)  
XX,YY,ZZ (XX,YY,ZZ)  
XX (XX)  
YY (YY)  
ZZ (ZZ)  
XX,YY (XX,YY)  
XX,ZZ (XX,ZZ)  
YY,ZZ (YY,ZZ)

### **Attr Name: SettleHeaveX**

Alt Display Name: Settle Heave X (in)  
Description: Prescribed lateral motion in the X axis  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: SettleHeaveY**

Alt Display Name: Settle Heave Y (in)  
Description: Prescribed lateral motion in the Y axis  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

### **Attr Name: SettleHeaveZ**

Alt Display Name: Settle Heave Z (in)  
Description: Prescribed lateral motion in the Z axis  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS

User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RackingXX**

Alt Display Name: Racking XX (°)  
Description: Prescribed rotation in the XX axis  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RackingYY**

Alt Display Name: Racking YY (°)  
Description: Prescribed rotation in the YY axis  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: RackingZZ**

Alt Display Name: Racking ZZ (°)  
Description: Prescribed rotation in the ZZ axis  
Displayed Units: store as RADIANS display as DEGREES SIGNED  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

---

**NodeLoad**

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**Attr Name: Description**

Description: Description of the  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING

Default: Applied Load  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the load  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LoadX**

Alt Display Name: Load X lbs  
Description: Applied load in the X axis  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LoadY**

Alt Display Name: Load Y lbs  
Description: Applied load in the Y axis  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LoadZ**

Alt Display Name: Load Z lbs  
Description: Applied load in the Z axis  
Displayed Units: store as POUNDS display as POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentX**

Alt Display Name: Moment X (ft-lb)  
Description: Applied Moment in the XX axis  
Displayed Units: store as FTLBS display as FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No



Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentY**

Alt Display Name: Moment Y (ft-lb)  
Description: Applied Moment in the YY axis  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: MomentZ**

Alt Display Name: Moment Z (ft-lb)  
Description: Applied Moment in the ZZ axis  
Displayed Units: store as FTLBS display as  
FTLBS or NEWTONMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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**Beam**

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**Attr Name: Description**

Description: Description of the beam  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Beam Element  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the beam  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <td>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Node1**

Alt Display Name: Node 1  
Description: Node 1

User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <node 1>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Node2**

Alt Display Name: Node 2  
Description: Node 2  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <node 1>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Material**

Description: Material  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: <material>  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Mode**

Description: Capacity Mode  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Standard  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Standard (Standard)  
Compression Only (Compression Only)  
Tension Only (Tension Only)

**Attr Name: BeamType**

Alt Display Name: Type  
Description: Beam Type  
User Level Required: All user levels may access this attribute  
Attr Type: ENUMERATED  
Default: Frame  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Frame (Frame)  
Truss (Truss)

**Attr Name: OverrideRendering**

Attr Group: Rendering  
Alt Display Name: Override Rendering  
Description: Indicates if the rendering is controlled by this section  
User Level Required: All user levels may access this attribute  
Attr Type: BOOLEAN  
Default: No  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: BeamRenderDiam**

Attr Group: Rendering  
Alt Display Name: Beam Render (in)  
Description: Node render diameter  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00  
Attr Type: TRACKERZ  
Default: 12  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No

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## BeamLoad

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**Attr Name: Description**

Description: Description of the  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default: Applied Load  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Name**

Description: Name of the load  
User Level Required: Limited users can NOT access this attribute  
Attr Type: STRING  
Default:  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Type**

Description: Type of the load  
User Level Required: Limited users can NOT access this attribute  
Attr Type: ENUMERATED  
Default: Uniform  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes  
Enum Values: Uniform (Uniform)  
Point (Point)

**Attr Name: LoadX**

Alt Display Name: Load X lbs  
Description: Applied load in the X axis  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0

ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LoadY**

Alt Display Name: Load Y lbs  
Description: Applied load in the Y axis  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: LoadZ**

Alt Display Name: Load Z lbs  
Description: Applied load in the Z axis  
Displayed Units: store as POUNDS display as  
POUNDS or NEWTONS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.00###E+0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: Offset**

Alt Display Name: Offset (in)  
Description: Offset from node 1  
Displayed Units: store as INCHES display as  
INCHES or CENTIMETERS  
User Level Required: Limited users can NOT access this attribute  
Format Expression: 0.0  
Attr Type: FLOAT  
Default: 0.0  
ReadOnly: No  
Visible: Yes  
Incl When Subst: Yes

**Attr Name: WorkingDataStore**

Description: Working Data  
User Level Required: Administrative access only  
Attr Type: STRING  
Default:  
ReadOnly: Yes  
Visible: No  
Incl When Subst: No