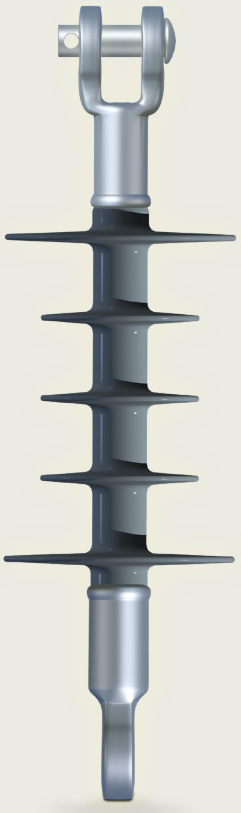
HUBBELL
Power Systems

CATALOG

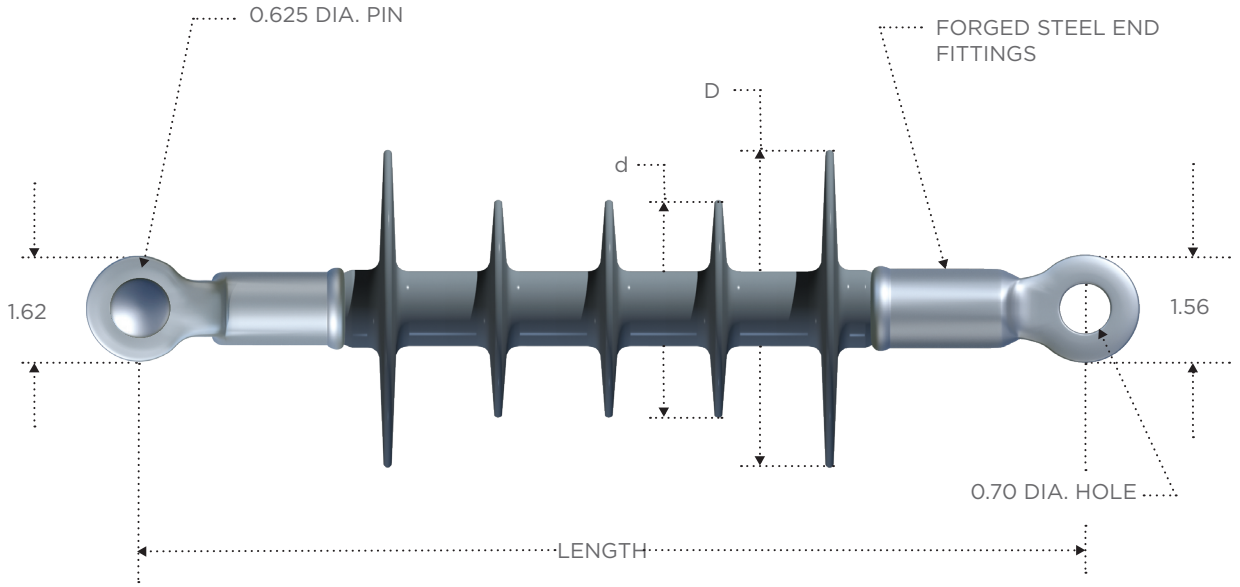
Veri*Lite™ Deadend & Suspension Insulators

for 15-69kV Applications



Veri*Lite™ Deadend (PDI) Mechanical & Electrical Characteristics

0.625" (16mm) Diameter Rod Deadend Insulators



Mechanical Characteristics

Catalog Number	No. of Sheds	Section Length Inches (mm)	Major / Minor Shed Diameter		Net Wt. pounds (kg)	Standard Package Qty		Torsion ft-lb (N-m)	[1]SML pounds (kN)	[2]RTL pounds (kN)	[3]Tension Proof Test (kN)
			D	d		Box	Pallet				
4010150215	5	12.50 (318)	3.9 (99)	2.7 (69)	2.3 (1.0)	15	540	35 (47)	15,000 (70)	7,500 (35)	10,000 (44.5)
4010280215	10	17.50 (445)	3.3 (84)	2.4 (61)	2.5 (1.1)	15	360	35 (47)	15,000 (70)	7,500 (35)	10,000 (44.5)
4010250215	10	18.75 (475)	3.8 (97)	2.8 (71)	2.7 (1.2)	15	360	35 (47)	15,000 (70)	7,500 (35)	10,000 (44.5)
4010350215	8	25.00 (635)	3.0 (76)	-	2.8 (1.3)	15	300	35 (47)	15,000 (70)	7,500 (35)	10,000 (44.5)
4010460215	10	23.00 (584)	4.4 (112)	3.0 (76)	2.9 (1.3)	15	300	40 (55)	15,000 (70)	7,500 (35)	10,000 (44.5)

ESP deadends are RUS Accepted

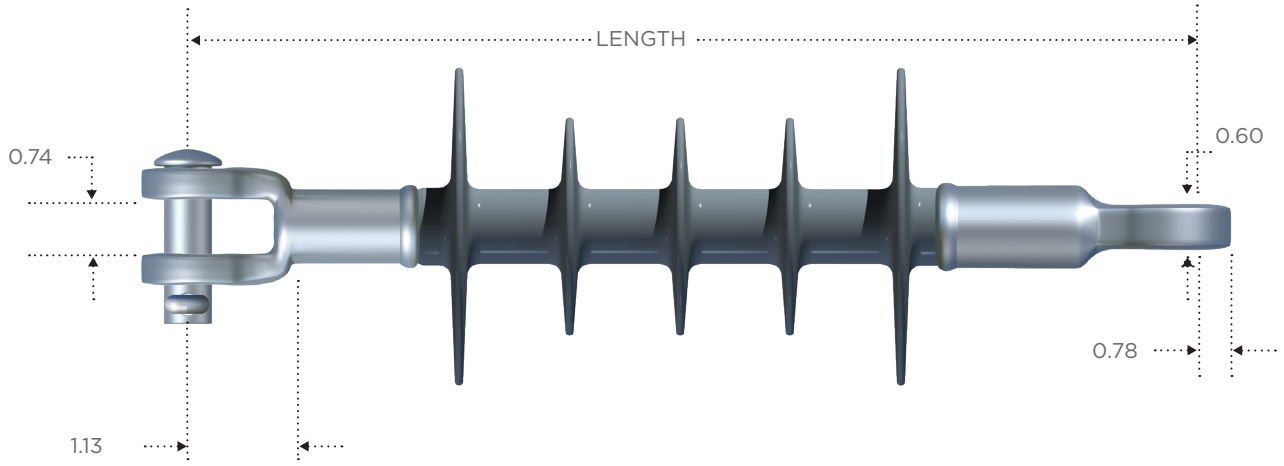
*[1]SML — Specified Mechanical Load is the tension load that a Veri*Lite insulator can withstand during a 90-second test without failure. SML is comparable to the M&E strength rating of porcelain insulators.*

[2]RTL — A Routine Test Load value is equal to 50% of the SML value.

[3]Proof Test — The mechanical tension load applied at the factory to each insulator for ten (10) seconds.

Note: PDI Type insulators are intended for applications which are within 75° of horizontal to allow proper shed drainage.

0.625” (16mm) Diameter Rod Deadend Insulators



Mechanical Characteristics

Catalog Number	ANSI / CSA Insulator Class	Typical Line Voltage kV	Creepage / Leakage Distanc (mm)	Dry Arc Distance Inches (mm)	60 Hz Flashover kV		Critical Impulse Flashover kV		Radio Influence Voltage		Power Arc kA cycles	Type
					Dry	Wet	Pos	Neg	Test kV	Max. µV		
4010150215	DS15	≤15	16 (406)	8.1 (205)	100	80	150	170	15	<10	150	PDI-15
4010280215	DS28	≤28	26 (660)	12.6 (320)	140	120	235	250	20	<10	150	PDI-28
4010250215	DS35	≤35	31 (787)	14.3 (363)	155	135	270	280	30	<10	150	PDI-25
4010350215	—	≤46	33 (838)	20 (508)	200	160	325	360	30	<10	150	PDI-35
4010460215	DS46	≤46	37.6 (955)	19.1 (485)	195	175	360	365	30	<10	150	PDI-46

Key to the Catalog Numbers

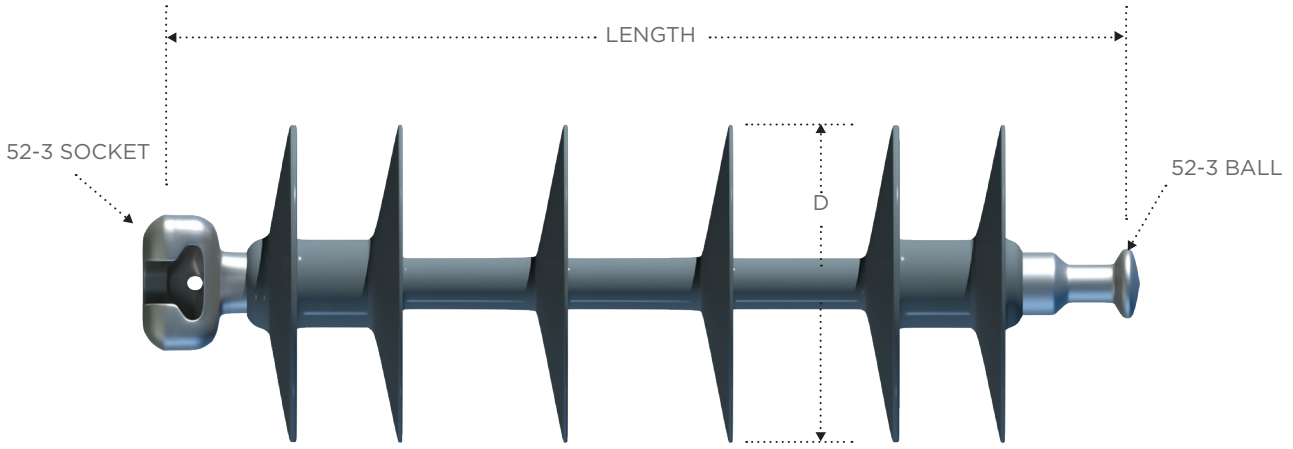
X01XXXX215

- 4 = ESP™ Rubber
- 8 = Silicone Rubber
- Type
  - 0 = Standard Pin
  - 1 = Hex Pin
  - 3 = Standard Pin Rotated End-fitting
  - 5 = ANSI 52-3 Ball & Socket
  - 6 = IEC 16mm Ball & Socket
- 0 = Standard Marking
- Ferrous End-fitting
- SML

Example: Cat #4013460215 is a Veri*Lite ESP™ polymer insulator, 46 kV rated with standard pin and rotated end-fitting (ferrous) 15,000 lbs. SML, plus standard markings.

Veri*Lite™ Suspension (VLS) Mechanical & Electrical Characteristics

0.625" (16mm) Diameter Rod Suspension Insulators



Mechanical Characteristics

Catalog Number	No. of weathersheds	Section Length (mm)	Shed Diameter (mm)	Net Wt. pounds (kg)	Standard Package Qty		[1]SML pounds (kN)	[2]RTL pounds (kN)	[3]Tension Proof Test
					Carton	Pallet			
4050021301	4	11.5 (292)	5.9 (150)	4 (1.8)	12	96	15,000 (70)	7,500 (35)	10,000 (44.5)
4050031301	6	17.25 (438)	5.9 (150)	4 (1.8)	12	96	15,000 (70)	7,500 (35)	10,000 (44.5)
4050041301	8	23 (584)	5.9 (150)	5 (2.3)	12	96	15,000 (70)	7,500 (35)	10,000 (44.5)
4050051301	10	28.75 (730)	5.9 (150)	6 (2.8)	12	48	15,000 (70)	7,500 (35)	10,000 (44.5)
4050061301	12	34.5 (876)	5.9 (150)	7 (3.2)	12	48	15,000 (70)	7,500 (35)	10,000 (44.5)

*[1]SML — Specified Mechanical Load is the tension load that a Veri*Lite insulator can withstand during a 90-second test without failure. SML is comparable to the M&E strength rating of porcelain insulators.*

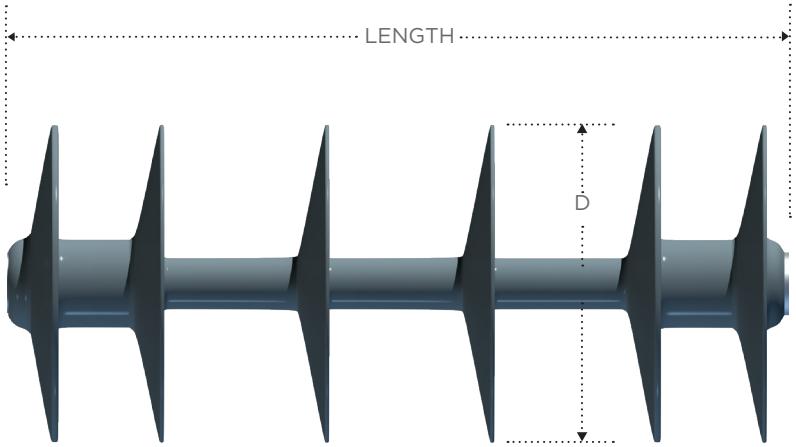
[2]RTL — A Routine Test Load value is equal to 50% of the SML value.

[3]Proof Test — The mechanical tension load applied at the factory to each insulator for ten (10) seconds.

[4]Phase-to-Phase voltage.

Veri*Lite™ Suspension (VLS) Mechanical & Electrical Characteristics

0.625" (16mm) Diameter Rod Suspension Insulators



Electrical Characteristics

Catalog Number	Type	Creepage / Leakage Inches (mm)	Dry Arc Distance Inches (mm)	60 Hz Flashover ANSI - kV		Critical Impulse Flashover		Radio Influence Voltage		Power Arc kA cycles	Equivalent number of 5-3/4"X10" Bells	Typical Line Voltage[4]
				Dry-kV	Wet-kV	Pos-kV	Neg-kV	Test kV	Max. µV			
4050021301	VLS-2	23 (584)	11.75 (298)	135	110	225	255	21	<10	150	2	15/25
4050031301	VLS-3	39 (991)	18 (457)	190	140	320	330	32	<10	150	3	35/46
4050041301	VLS-4	54 (1372)	23.7 (602)	255	190	420	435	48	<10	150	4	46/69
4050051301	VLS-5	69 (1753)	29.5 (749)	315	245	500	510	48	<10	150	5	69
4050061301	VLS-6	84 (2134)	35.2 (894)	370	305	610	580	48	<10	150	6	69

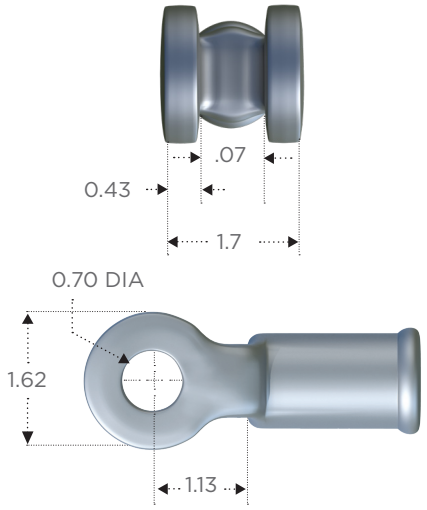
VLS insulators are available with ANSI ball/socket end fittings and also with straight clevis/ tongue end fittings. Please use the following 4-digit suffix codes after the first 6-digits of the catalog number.

VLS End Fitting Codes

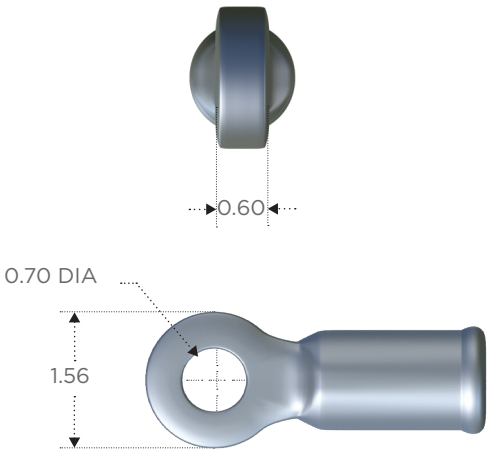
Suffix Code	Tower-end	Line-end
1400	Straight Clevis	Tongue/ Spade
1301	ANSI 52-3 Socket	ANSI 52-3 Ball

End Fitting Details (Inches)

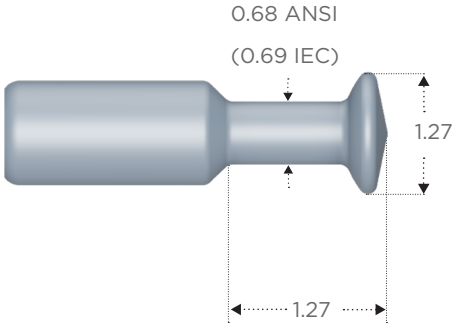
PDI Clevis



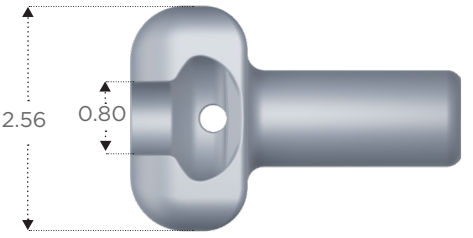
PDI Tongue



VLS Ball
ANSI 52-3

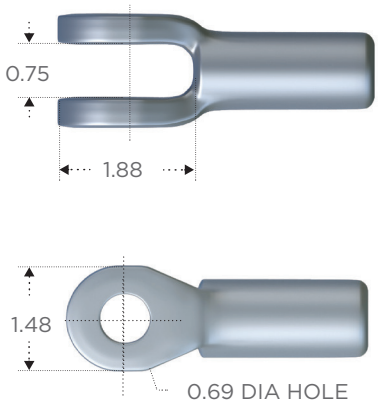


VLS Socket
ANSI 52-3

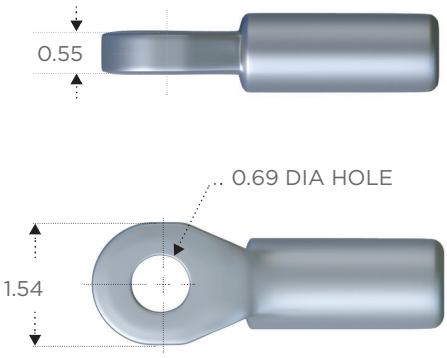


End Fitting Details (Inches)

VLS Clevis



VLS Tongue

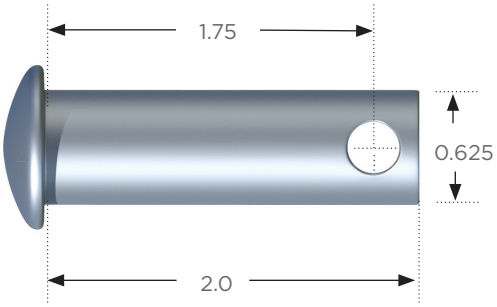


PDI Cotter

Part No. 86166-4002

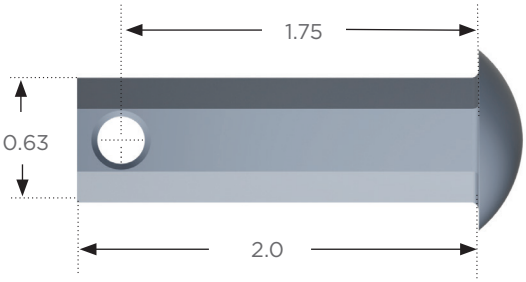
PDI Standard Clevis Pin

Part No. 81257-4206



PDI Hex Clevis Pin

Part No. 89858-4206



Notes

Notes

HUBBELL
Power Systems

Hubbell Power Systems, Inc. (HPS) manufactures a wide variety of transmission, distribution, substation, OEM and telecommunications products used by utilities.

GET IN TOUCH:

hpscs@hubbell.com

(573) 682-5521

www.hubbell.com/hubbellpowersystems

Hubbell Power Systems
210 N. Allen
Centralia, MO 65240

AIK-HPS-CAT-EN-03098_1 | 04/2025

A Hubbell brand HUBBELL