



VORTX™ VIBRATION DAMPER

VORTX DAMPERS respond to wind induced line vibration that is characterised by high frequency, low amplitude motion known as aeolian vibration. The VORTX damper with large and small weights can achieve greater power dissipation and frequency coverage response performance than ‘symmetrical weight’ Stockbridge damper designs. Wider frequency coverage translates into better protection as energy is more effectively dissipated over the entire range of conductor/ cable frequencies.

FEATURES AND BENEFITS

- Messenger Strand: Precision manufactured galvanized steel messenger strand efficiently absorbs vibration energy.
- Weight: Open galvanized ductile iron weights do not enclose the messenger, reducing the possibility of corrosion.
- VORTX Dampers are tested in accordance with Overhead Lines Requirements and tests for Stockbridge Type Aeolian Vibration Dampers.
- PLP has developed a proprietary computer program know as the VORTX Vibration Damper Placement Software or VORTX VDP for short. This software is based upon data gathered from laboratory testing, field studies, CAD research and PLP’s 50+ year knowledge based on vibration.
- Weight Attachment: PLP’s novel weight attachment system exceeds the pull-off strength requirements of the IEC standards without changing the properties of the adjoining messenger.



Specifications

Damper Cat.No.	Attachment Rod Cat. No.	Conductor Names	Conductor Range(mm)	Attachment Rods			
				Colour Code	Shop length	Wire Diam.	Mass (kg)
VSD-128	VSDRD 315/340	-	8.00-8.64	Black	600	4.47	1.5
	VSDRD 347/389	-	9.31-9.88	Black	650	4.47	1.5
	VSDRD 390/413	Hazel, Rabbit, Fly	9.91-10.49	Yellow	700	4.47	1.5
	VSDRD 414/436	Pine, Bluebottle,Mink	10.52-11.07	Red	700	4.47	1.5
	VSDRD 437/463	Earwig	11.10-11.76	Blue	700	4.47	1.5
	VSDRD 464/490	Willow, Racoon	11.79-12.45	Green	700	4.47	1.5
	VSDRD 491/521	Skunk	12.47-13.23	Orange	750	5.18	1.5
	VSDRD 522/558	Oak, Dog, Hare	13.26-14.17	Brown	750	5.18	1.5
	VSDRD 559/585	-	14.20-14.86	White	750	6.35	1.5
	VSDRD 586/606	-	14.88-15.39	Blue	800	6.35	1.6
	VSDRD 607/630	Mulberry	15.42-16.00	Orange	800	6.35	1.6
	VSDRD 631/655	Hornet, Tiger	16.03-16.64	Red	800	6.35	1.6
	VSDRD 656/679	-	16.66-17.25	Black	845	6.35	1.6
	VSDRD 680/703	Ash	17.27-17.86	Yellow	865	6.35	1.6
	VSDRD 704/739	Wolf	17.88-18.77	White	890	6.35	1.6
VSD-177	VSDRD 740/782	Elm, Chicadee	18.80-19.86	Red	900	6.35	1.6
	VSDRD 783/814	Lark, Ibis	19.89-20.68	Green	990	6.35	2
	VSDRD 815/845	Pelican, Lemon	20.7-21.46	Brown	925	6.35	2
VSD-271	VSDRD 846/907	Flicker, Hawk, Sycamore	21.49-23.04	Yellow	1075	6.35	2
	VSDRD 908/942	Bear, Kingbird	23.06-23.93	Orange	1200	6.35	2
	VSDRD 943/983	UPAS	23.95-24.99	Green	1200	7.62	2
VSD-406	VSDRD 977/1016	-	24.82-25.81	Blue	1235	7.62	4.1
	VSDRD 1017/1035	Goat	25.83-26.29	Black	1355	7.62	4.1
	VSDRD 1036/1064	Centipede, Tern	26.31-27.03	Blue	1385	7.62	4.1
	VSDRD 1065/1098	-	27.05-27.89	Grey	1350	7.62	4.1
	VSDRD 1099/1139	Zebra	27.91-28.93	Yellow	1390	7.62	4.1
	VSDRD 1140/1161	-	28.96-29.49	Blue	1480	7.62	4.1
	VSDRD 1162/1208	Rail, Scorpion	29.51-30.68	Green	1475	7.62	4.1
	VSDRD 1209/1269	IEC 560	30.71-32.23	Brown	1635	7.62	4.1
	VSDRD 1270/1327	-	32.26-33.71	Black	1515	7.62	4.1
VSD-514	VSDRD 1328/1390	-	33.73-35.31	Grey	1745	7.62	5.2
	VSDRD 1391/1440	DINOSAUR, BERSFORD	35.33-36.58	White	1765	7.62	5.2
	VSDRD 1270/1327	BULL	36.59-38.30	Red	1830	7.62	5.2