



## VR2<sup>®</sup> Vibration Resistant Cable

### Dual-conductor vibration resistance

**VR2<sup>®</sup> Conductor** – Southwire Company, LLC’s twisted pair conductor design – provides vibration and galloping resistance without the schedule delays associated with bagging problems during installation. VR2 conductor is the easiest installing dual-conductor cable construction you can find.



#### Decrease labor associated with bagging problems

- The patented VR2 design eliminates conductor separation and bagging by limiting relative movement between conductors.
- Reduce the labor costs required to bump loops and bags out of installed conductors.
- VR2 uses the same installation and mounting hardware as traditional dual-conductor cables.

#### Get the performance you expect, and more

- Available in transmission and distribution sizes with industry-leading lengths to squeeze install costs.
- Field studies and computer modeling shows VR2 delivers equal to or better resistance to aeolian vibration and ice galloping than traditional dual-conductor constructions.
- Advanced dynamic analysis measured drag force, lift force, moment load and vortex-shedding frequency at multiple wind angles.
- Sag calculations for standard conductors work for VR2.
- VR2 helps you bring your dual-conductor project in on schedule and within budget.

# VR2® Vibration Resistant Cable

## Construction

Southwire Company's VR2® cable is composed of two identical bare conductors twisted together in a figure 8 spiral shape. This spiral shape disrupts the wind forces that cause cable vibration. Torsional and bending characteristics also reduce or eliminate cable galloping due to ice and wind. VR2 is available with multiple conductor types, and in sizes up to dual 1113 kcmil conductors.

## Applications

VR2 bare aluminum cable is designed for overhead applications subject to aeolian vibration and galloping due to wind and ice. VR2 can be strung to the maximum allowable tension limits without the need for additional vibration protection.

## Find out more today

The VR2 design is a patented Southwire exclusive. Call 1-800-444-1700 or visit [www.Southwire.com/VR2](http://www.Southwire.com/VR2) for

Code Word		Description		Stranding		Weight - lbs./M ft					Resistance Ohms/1000 ft		Allowable Ampacity (amp)	
Equivalent Size (AWG-kcmil)	Type	Construction	Alum.	Steel	Outer Rated Dimensions (in)	Equivalent Diameter (in)	Alum	Steel	Total	Rated Strength (lb)	DC@ 20°C	AC@ 75°C		
Swan/VR2	1	ACSR	2 x #4-6/1	6 x 0.0834	1 x 0.0834	0.250 x 0.500	0.409	78.3	36.8	115.1	3,720	0.2016	0.2577	221
Sparrow/VR2	2/0	ACSR	2 x #2-6/1	6 x 0.1052	1 x 0.1052	0.316 x 0.631	0.517	124.0	58.7	182.7	5,700	0.1265	0.1666	296
Robin/VR2	3/0	ACSR	2 x #1-6/1	6 x 0.1181	1 x 0.1181	0.355 x 0.710	0.581	156.3	73.9	230.2	7,100	0.1005	0.1340	349
Raven/VR2	4/0	ACSR	2 x #1/0-6/1	6 x 0.1327	1 x 0.1327	0.398 x 0.796	0.652	197.3	93.4	290.7	8,760	0.0797	0.1080	396
Quail/VR2	266.2	ACSR	2 x #2/0-6/1	6 x 0.1489	1 x 0.1489	0.447 x 0.894	0.732	248.4	117.5	365.9	10,620	0.0632	0.0720	453
Pigeon/VR2	335.6	ACSR	2 x #3/0-6/1	6 x 0.1672	1 x 0.1672	0.502 x 1.004	0.822	313.2	148.2	461.4	13,240	0.0502	0.0595	538
Penguin/VR2	423.2	ACSR	2 x #4/0-6/1	6 x 0.1878	1 x 0.1878	0.563 x 1.126	0.922	395.1	187.0	582.1	16,700	0.0398	0.0393	588
Waxwing/VR2	533.6	ACSR	2 x 266.8-18/1	18 x 0.1217	1 x 0.1217	0.609 x 1.218	0.997	500.3	78.5	578.8	13,760	0.0321	0.0312	721
Merlin/VR2	672.8	ACSR	2 x 336.4-18/1	18 x 0.1367	1 x 0.1367	0.684 x 1.368	1.120	631.2	99.1	730.3	17,360	0.0255	0.0312	835
Chickadee/VR2	795	ACSR	2 x 397.5-18/1	18 x 0.1486	1 x 0.1486	0.743 x 1.486	1.216	745.9	117.1	863.0	19,880	0.0216	0.0265	924
Ibis/VR2	795	ACSR	2 x 397.5-26/7	26 x 0.1236	7 x 0.0961	0.783 x 1.566	1.282	749.5	344.5	1094.0	32,600	0.0214	0.0262	936
Hawk/VR2	954	ACSR	2 x 477-26/7	26 x 0.1354	7 x 0.1053	0.858 x 1.716	1.405	898.8	413.1	1311.9	39,000	0.018	0.0224	1048
Osprey/VR2	1113	ACSR	2 x 556.5-18/1	18 x 0.1758	1 x 0.1758	0.879 x 1.758	1.439	1043	164	1207	27,400	0.0154	0.0194	1134
Peacock/VR2	1210	ACSR	2 x 605-24/7	24 x 0.1588	7 x 0.1059	0.953 x 1.906	1.560	1140	417	1557	43,100	0.0141	0.0177	1210
Swift/VR2	1272	ACSR	2 x 636-36/1	36 x 0.1329	1 x 0.1329	0.930 x 1.860	1.522	1192	94	1286	27,500	0.0135	0.0172	1223
Flamingo/VR2	1333.2	ACSR	2 x 666.6-24/7	24 x 0.1667	7 x 0.1111	1.000 x 2.000	1.637	1256	459	1715	47,500	0.0128	0.0162	1283
Stilt/VR2	1431	ACSR	2 x 715.5-24/7	24 x 0.1727	7 x 0.1151	1.036 x 2.072	1.696	1348	493	1841	51,000	0.0119	0.0152	1339
Coot/VR2	1590	ACSR	2 x 795-36/1	36 x 0.1486	1 x 0.1486	1.040 x 2.080	1.702	1490	117	1607	33,500	0.0108	0.0140	1395
Ruddy/VR2	1800	ACSR	2 x 900-45/7	45 x 0.1414	7 x 0.0943	1.131 x 2.262	1.851	1695	331	2026	48,900	0.0096	0.0125	1507
Rail/VR2	1908	ACSR	2 x 954-45/7	45 x 0.1456	7 x 0.0971	1.165 x 2.330	1.907	1797	351	2148	51,800	0.0090	0.0119	1559
Ortolan/VR2	2067	ACSR	2 x 1033.5-45/7	45 x 0.1515	7 x 0.1010	1.212 x 2.424	1.984	1947	380	2327	55,400	0.0083	0.0111	1630
Bluejay/VR2	2226	ACSR	2 x 1113-45/7	45 x 0.1573	7 x 0.1049	1.258 x 2.516	2.059	2097	409	2506	59,600	0.0077	0.0104	1699

+ Ampacity calculated assuming: ambient 25oC, wind 2ft/sec., sun.

Additional sizes and specifications available in the Product Catalog on [southwire.com](http://southwire.com)

