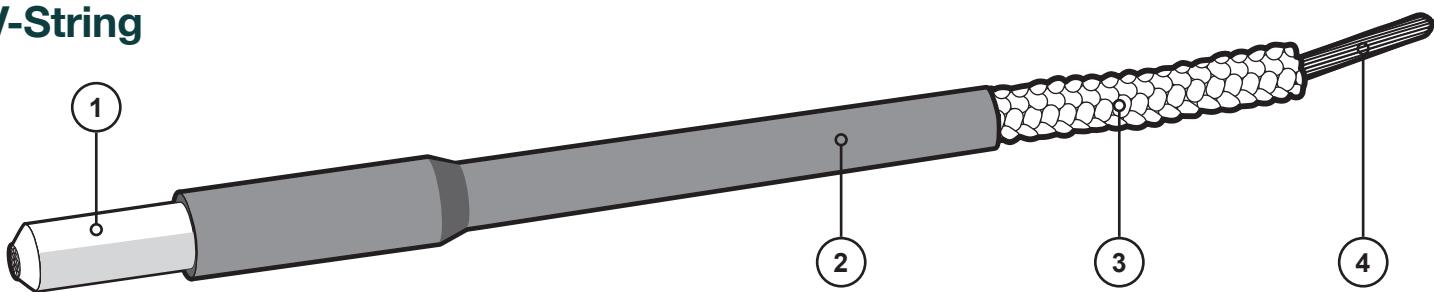


### V-String



#### General

The Polatrak V-String electrode is a low-cost zinc reference electrode designed for offshore platform and pipeline monitoring. It is suitable as either a general-purpose cathodic-protection monitoring retrofit system or as a supplement to other Polatrak monitoring instruments, such as the DR-2 dual reference cell or the MA-1 monitored sacrificial anode. The V-String's accuracy is +/- 0.02 V.

The electrode wire consists of a galvanized-steel

aircraft cord with a PVC jacket and an overbraid of polyester fibers. V-Strings have been installed on dozens of types of structures, from platforms and offshore pipelines to shallow-water wind farms.

The ultra-flexible cord coupled with the dynamic polyester overbraid offers superior abrasion resistance and toughness while allowing precision point monitoring. The unique self-bleeding electrode design provides excellent potential stability.

Interrogating the electrode can be done in several ways. If installed on a traditional structure, the conductor can be wired to the surface and connected to a monitoring panel. In some instances, the panel can also be wired to a satellite transmitter. For subsea assets and offshore pipelines, the V-String can be interrogated by ROV using the SunStation subsea readout.

#### Zinc electrode (Item 1)

The zinc electrode is cast directly onto the steel conductor wire.

	Length (Inches)	Diameter (Inches)	Weight (lbs)	Life (Years)
V-20	4 [101.6 mm]	0.75 [19 mm]	0.50 [0.23 kg]	20
V-25	4 [101.6 mm]	0.85 [21.6 mm]	0.65 [0.29 kg]	25
V-30	4 [101.6 mm]	0.95 [24.1 mm]	0.81 [0.37 kg]	30
V-35	4 [101.6 mm]	1.0 [25.4 mm]	0.90 [0.41] kg	35
V-40	4 [101.6 mm]	1.1 [28 mm]	1.08 [0.49 kg]	40

#### Electrode composition (MIL-A-18000-K)

##### Element Weight %

Fe	0.005 max.
Pb	0.006 max.
Cu	0.005 max.
Al	0.1 - 0.5
Cd	0.025 - 0.070
Zn	Balance

Electrode potential vs. Ag/AgCl-sw (-)1.050 v

#### Polyshrink (Item 2)

##### Description

High-density heat-shrinkable cross-linked polyolefin

#### Polyester-fiber overbraid (Item 3)

##### Description

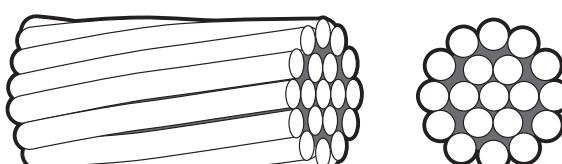
The electrode wire is sheathed in a PVC jacket and has an overbraid of polyester fibers braided at 4.9 picks per inch coverage.

18,000 denier type 77 dacron

#### Conductor cable (Item 4)

##### Description

Galvanized steel aircraft cord that is a flexible strand of nineteen wires.



##### Material

Galvanized steel

##### Diameter

1/8 inch [ Ø 3.175 mm ]

##### Ibs per 1,000 ft.

35 [15.88 kg]

##### Breaking strength (lbs)

2,100 [ 952.5 kg ]

##### MIL SPEC

MIL-DTL-83420