ZTACSR/VR2® Vibration Resistant Cable

Putting innovation on the line

VR2® Conductor – Southwire Company, LLC’s twisted pair conductor design – provides vibration and galloping resistance without the schedule delays associated with bagging problems during installation. Now, Southwire’s ZTACSR/VR2 conductor provides higher thermal resistance allowing for greater ampacity without having to increase conductor size.

Get the performance you expect, and more

- **Trusted performance** – same anti-galloping and Aeolian vibration-resistant characteristics as ACSR/VR2®
- **Thermally resistant Aluminum-Zirconium** – proven alloy historically used in other conductor applications
- **210°C continuous / 240°C emergency thermal rating** – highest operating temperatures in the industry for twisted pair conductors
- **Good conductivity** – 60% IACS
- **High temperature hardware** – uses the same high temperature hardware as ACSS conductor (sizes must be verified by hardware manufacturer)
- **Corrosion-resistant** – extended conductor life through use of a mischmetal steel core coating
- **Core options** – available in Standard, High-strength and HS285®
- **Size options** – 2 x #4 AWG – 2 x 1113 kcmil
- **Additional options** – trapezoidal-shaped wire (TW), non-specular (NS)
Technical Specifications

Construction
Southwire Company's ZTACSR/VR2® conductor is composed of two identical bare conductors twisted together. This varying profile disrupts the wind forces that cause conductor vibration, which helps to reduce galloping due to ice and wind. ZTACSR/VR2 is available with multiple conductor types, and in sizes up to 2 x 113 kcmil.

Applications
ZTACSR/VR2 conductor is designed for overhead applications subject to aeolian vibration and galloping due to ice and wind. ZTACSR/VR2 can be installed to the maximum allowable tension limits without the need for additional vibration protection.

Find out more today
The ZTACSR/VR2 design is a patented Southwire exclusive. Call 1-800-444-1700 or visit www.Southwire.com for more information.

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Technical Specifications

**Description**
- **Ref. ACSR**: Reference American Copper Square Foot (AFCF)
- **Equivalent Size (AWG-kcmil)**: Equivalent size in American Wire Gauge (AWG) kcmil
- **Type**: Type of conductor
- **Construction**: Construction details of the conductor
- **Alum.**: Diameter of Aluminum Conductor (in.)
- **Steel**: Diameter of Steel-Wrapped Conductor (in.)
- **Outer Diameter (in.)**: Outer diameter of the conductor (in.)
- **Equivalent Diameter (in.)**: Equivalent diameter of the conductor (in.)
- **Alum**: Aluminum content of the conductor (lb)
- **Steel**: Steel content of the conductor (lb)
- **Total**: Total weight of the conductor (lb)
- **Rated Strength (lb)**: Rated tensile strength of the conductor (lb)
- **DC @ 20°C**: DC loss at 20°C (W/m•km)
- **AC @ 75°C**: AC loss at 75°C (W/m•km)
- **Allowable Amplitude (amps)**: Allowable amplitude of the conductor (amps)

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