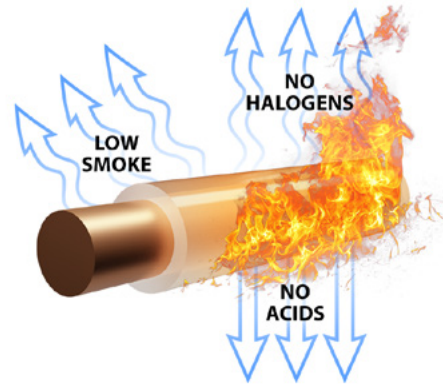
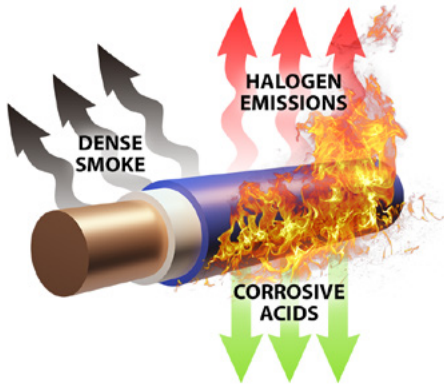


# Cicoil LSZH Cables VS Non-LSZH Cables



## Non-LSZH Cables

## Cicoil LSZH Cables

<p>Common jacketing materials like PVC, Neoprene, and PTFE/Teflon™ require the addition of halogens to reduce flammability. In cases, however, where combustion does occur, burning halogens result in dense smoke and corrosive/toxic gases.</p>	<p><b>VS</b></p>	<p>Cicoil's Flexx-Sil™ cable jacketing is inherently flame resistant and uses NO HALOGENS. Flexx-Sil™ is our proprietary elastomeric cable encapsulation material that is naturally resistant to combustion, and if ignited under extreme conditions, does not produce black smoke or toxic gas or corrosive substances.</p>
<p>Cables containing halogens present a serious risk to any populated environment. If exposed to water after being burned—as in the case of the use of fire suppression systems or even humidity in the air—halogen-containing cable/wire jacketing will release dangerous or even deadly chemicals such as hydrochloric acid.</p>	<p><b>VS</b></p>	<p>A safer choice for all environments, but essential when the safety of human life is a top priority, as in highly populated facilities, mass transit, and crewed vehicles. In the event of a fire, the danger to individuals will not be compounded by toxic, halogen-based airborne chemicals.</p>
<p>The microcircuitry aboard most electronic equipment is particularly susceptible to the acidic moisture produced by materials without LSZH classification.</p>	<p><b>VS</b></p>	<p>Mitigates damage done to equipment during a fire. Flexx-Sil™ does not release the corrosive chemicals that eat away at delicate electronics and computer systems.</p>
<p>Flame and combustion retardation additives used on common cable and wire jacketing typically stiffens the material, making the product less flexible and compliant, and susceptible to a shorter functional life in motion applications.</p>	<p><b>VS</b></p>	<p>Even with LSZH classification, Flexx-Sil™ jacketing provides <i>extreme</i> flexibility, is 100% transparent, self-heals small punctures, and remains very durable within stressful environmental conditions.</p>
<p>Industry standard cables are infused with color additives that contain contaminants and don't allow for inspection of the cable for possible wire shorts and safety issues.</p>	<p><b>VS</b></p>	<p>Crystal-clear jacketed cables offer 100% transparency, which allows for quick, safe inspection of cables in just about any application.</p>

# Cicoil LSZH Cables VS Other LSZH Cables

## LSZH Cables from Other Manufacturers

## Cicoil LSZH Cables

<p>Typically, LSZH cables require filler materials to make them low smoke and zero halogen. This makes the jacket less resistant to chemicals, water, and other environmental stresses as compared to non-LSZH cables, and may even inhibit the cables' mechanical and electrical characteristics.</p>	<p><b>VS</b></p>	<p>Cicoil's Flexx-Sil™ jacketing material is flame retardant by nature, completely non-toxic, and requires no additives to achieve zero halogen. It also offers excellent resistance to harsh environments, water, acid and many chemicals.</p>
<p>The materials used to make the cable LSZH limits the flexibility of the cable and impedes its performance in continuous motion and robotics applications.</p>	<p><b>VS</b></p>	<p>Cicoil's flat cables are designed to prevent wire breakage, jacket punctures, and operational failure when exposed to tight bending, flexing, mechanical stress, and harsh environments.</p>
<p>The outer jacket of LSZH cables may crack during installation or tight bends, so lubricants are recommended to prevent jacket damage.</p>	<p><b>VS</b></p>	<p>Cicoil's unique cable jacket requires minimal maintenance thanks to its self-healing properties and integrity through long term exposure to tight bending, confined spaces, and even vibration.</p>