



INDUSTRIAL

Inventing *the Future* of Wire and Cable



Champlain Cable XLE 1,000v UL3657

Champlain Cable has designed a new 1,000v Class B lead wire for use in motor and electrical panel applications.

This product is a potential alternative when traditional rubber-based insulation materials (like Hypalon® and Neoprene). The differences in the products are often the benefits of the XLE...

	Neoprene	Hypalon	XLE	
High Temp UL:	90°C	105°C	105°C	
Low Temp UL:	- 30°C	- 30°C	- 70°C	
Max. Temp Exposure:	149°C / 24hrs	149°C / 24hrs	200°C / 24hrs	
RoHS:	TBD	No/Yes	Yes	
Oil Resistance:	Very Good	Very Good	Very Good	
Hot Oil Temp Resistance:	80°C	80°C	80°C	
Sandpaper Abrasion	TBD	49mm/.001"	189mm/.001"	
Nom. OD (example):				OD Reduction:
18awg	.142"	.142"	.107"	24%
12awg	.190"	.190"	.151"	21%
8awg	.285"	.290"	.241"	17%
2awg	.454"	.454"	.413"	9%

Although UL rates the XLE at 105°C, it is important to note that the UL rating is limited due to UL's testing procedures. The XLE also meets 150°C per ISO 6722 standard.

The strongest selling features of this product are expected to be:

Oil Resistance: Both Hypalon and Neoprene have very good oil resistance. Unlike all XLPE's, XLE has very good oil resistance at temperatures up to 80°C...

Reduced Size: In control panels, small motors, and other electrical apparatuses, space savings can be a real virtue.

Flexibility: The XLE is as flexible as Neoprene and Hypalon.

Low Temp. Flex: Not many materials survive cold bend testing at -70°C, and the XLE is one of them.

Cables: Champlain has a UL listing for 1,000v multi-conductor cables too. Pound for pound, the XLE can provide a higher performing cable, which is smaller, and more flexible than its nearest competitors.

Strip-ability: As an Irradiated cross-linked insulation, the XLE does not embed into the conductor strands, a problem encountered with Hypalon and Neoprene, rendering the wire very difficult to strip. No barrier tapes are required on the conductor for XLE insulations.

RoHS: All XLE insulation grades are RoHS compliant unlike the competitive products.

Price: Perhaps best of all, Hypalon and Neoprene volumes are on the decline, and prices are on the rise. We expect the XLE to be roughly 10% lower in price.

* Neoprene and Hypalon are a registered trademark of the DuPont Corporation.

**Neoprene and Hypalon performance values per published web page spec sheets.

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