VFD and Servo Cable Compliance Under NFPA 79

NFPA 79 is the U.S. Electrical Standard for Industrial Machinery and is referenced by the National Electrical Code under Article 670. NFPA 79 applies to the electrical equipment used within a wide variety of machines—and groups of machines operating in a coordinated manner.

While previous NFPA 79 editions reference wire and cable primarily in Chapters 12 and 13, the 2018 Edition of NFPA 79 refers to cable in Chapter 4, *General Requirements and Operating Conditions*. This chapter directly corresponds to the conditions surrounding variable frequency and servo drive systems.

"Electrical conductors and equipment supplied by power conversion equipment as part of adjustable speed drive systems shall be listed flexible motor supply cable marked RHH, RHW, RHW-2, XHH, XHHW, or XHHW-2 or selected based on the equipment manufacturers instructions."

-Circuits Supplied From Power Conversion Equipment, Chapter 4, Section 4.4.2.8, NFPA 79 2018

This revision supports the use of high performing cable insulation to reduce safety concerns in these applications. Note that the revision not only applies to the conductors listed but also other materials based on the equipment manufacturers' instructions.

LAPP CABLES COMPLY WITH NFPA 79 2018

LAPP offers a variety of cables designed specifically to meet the technical and compliance requirements of variable frequency drives (VFD) and servo drives. These VFD and servo cables are composed entirely from high-quality materials that meet or exceed the standards set by leading drive and motor manufacturers—including Allen-Bradley[®] and SIEMENS[®].

LAPP's extensive research, development and testing programs ensure that our full line of UL-listed cables not only meet or exceed NFPA 79 2018 standards but also offer best-of-class EMI protection, oil resistance and flexibility.

Allen-Bradley[®] is a registered trademark of Rockwell Automation, Inc. SIEMENS[®] is a registered trademark of SIEMENS AG.



To download a white paper on cable solutions for VFDs, visit https:// lappdigitallibrary.cld.bz/Reliable-VFD-Cables

INNOVATIVE CABLING FOR VFD AND SERVO DRIVE SYSTEMS

ÖLFLEX® VFD:

- Premium insulations—XLPE plus, LAPP Surge Guard, 600/1000/2000V
- Multiple grounding systems—300% ground symmetrical, 100% foil/braid

STOT OF COMPANY

- Signal pair for brake
- Continuous flex

ÖLFLEX® SERVO:

- Premium insulations—polypropylene, XLPE
- Continuous flex
- Designs for most servo drive manufacturers



For more information, please contact sales@lappusa.com