

Manufacturer's Instructions for Lifeline® Power Cables

Lifeline® RHW-2 or RW90 Two-Hour Fire Resistive Cables in EMT

Technical Information Sheet #301G

This Technical Information Sheet (TIS) covers Lifeline® RHW-2 or RW90 Cables: UL Certified and Listed Two-Hour Fire Resistive Power Cables.

Applications

Lifeline® Power Cables have been qualified and listed to the demanding requirements of UL 2196, Tests for Fire Resistive Cables, and are UL Listed Type RHW-2 or RW90.

Lifeline® Power Cables meet various industry code requirements (NFPA 70, NFPA 101, NFPA 130 and NFPA 502) for fire resistance according to UL Standard 2196 when selected and installed per applicable codes including federal, state, local and municipal rules, laws and regulations as well as Electrical Circuit Integrity System 25B (FHIT 25B) and TIS #301G - Manufacturer's Instructions. Note that Authorities Having Jurisdiction (AHJ) should be consulted for approval prior to cable purchase and installation.

Requirements

1) Codes / Laws / Regulations

Selection and installation compliance is dependent on the applicable issue of any codes or addendums which covers the use of Lifeline® RHW-2 or RW90 Cables, Fire Resistant Cables.

2) UL Electrical Circuit Integrity System #25B (FHIT 25B)

The most current listing details and supporting information applicable to Lifeline® Cables' fire resistive rating classification can be obtained from UL's 'Online Certification Directory' website by searching for keyword: "FHIT 25B".

3) Manufacturer's Instructions - TIS #301G

All Lifeline® Cable products are covered by specific datasheets and supporting Technical Information Sheets that provide the user with information to properly select and install Lifeline® Cables in a reliable and trouble-free manner. Do not hesitate to contact your Lifeline® Cable representative should you have any questions.



Installation Parameters

1) Cable: Lifeline® RHW-2 or RW90

Code compliant cable classified as fire resistive per testing according to UL 2196 and listed in FHIT 25B. Fire resistive rating is two-hours in horizontal (H) installations and one-hour in vertical (V) installations. Appropriate cable selection is required for systems requiring a fire resistive rating.

2) Conduit System

Code compliant conduit system which meets the following requirements:

- a. Must be EMT Conduit with all steel components or other fire rated components (described in FHIT 25B) proven to meet the required fire resistance ratings. No substitute components are allowed.
- b. Conduit must be supported every five feet (60 inches) and secured to a fire rated structure with steel components or other fire rated components proven to meet the required fire resistance ratings. Noted exception: 5ft support spacing is in lieu of typical 10ft support spacing allowed in the National Electric Code.
- c. Conduit system shall not include zinc on the internal surface of conduit unless testing has proven the system meets the required fire resistance ratings.

3) Conduit Sizing

Lifeline® RHW-2 or RW90 FHIT.25B datasheets issued January 2016 provide cable diameters to calculate conduit fill which in lieu of the typical National Electrical Code requirements cannot exceed maximum fill level listed in the datasheet and FHIT 25B.

Marking

Lifeline® Power Cables are marked as follows:

DRAKA MA P/N G[#####] [X] [Y] LIFELINE us (UL) c E2268 RHW-2 OR RW90 600V FT4 ST1 VW1 FT1 (UL) R19359 FIRE-RESISTIVE CABLE FOR USE IN ELECTRIC CIRCUIT INTEGRITY SYSTEM FHIT.#25B AND SYSTEM FHIT.#25C (MONTH/YEAR) (SEQUENTIAL FOOTAGE)

Notes: [X] is the size of the cable in AWG or kcmil
[Y] is the size of the cable in mm²
[#] is cable part number

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