Liquid Tight Power Distribution Cable Specification
Established for Underwriters Laboratories®
File E192099

General

All cables manufactured by the Power Cabling Corporation consist of flexible metal conduit containing the required insulated power, neutral and ground conductors as established by the National Electric Code. All cables are "LISTED" by Underwriters Laboratories and are approved for use for "Integrated Technology Equipment" per NEC 645 and are exempt from being secured in place. The power cable shall include an insulated, liquid tight, flexible and interlocking wound steel armored outer shield, which surrounds all of the conductors to minimize electrical and or mechanical disturbances to the conductors. The flexible conduit shall contain a continuous copper ground conductor built into the core. Material used for the outer shield shall conform to and be listed to UL Standard for Safety No. 360 (Conduit, Electrical, Liquid-Tight Flexible Steel). The "load" end of the output distribution cable shall be terminated in one of the following three ways as specified by the purchaser on a schedule provided separately from this specification.

1). A field-wired termination shall consist only of the specified length of Listed liquid tight conduit, 2 - Listed, insulated, straight liquid tight connectors, and the specified number of Listed conductors including a minimum of 18" of free conductors exiting the power cable at the "load" end.

2). A box-mounted receptacle termination shall consist of a Listed cast metal outlet box of water resistant design with threaded internal hubs, equipped with a Listed metal cover plate secured with screws to the outlet box and the appropriate Listed receptacle, 2 - Listed, insulated straight liquid tight connectors and the specified number of Listed conductors in the specified length of Listed liquid tight conduit.

3). An in-line or pin and sleeve termination shall consist of a circular in-line Listed connector-body in a water resistant housing, 2 - Listed, insulated straight liquid tight connectors and the specified number of Listed conductors in the specified length of Listed liquid tight conduit.

All cables shall contain a minimum of 60 inches (5 feet) of free conductors for attachment to power source.

Standards

The output conductors, liquid tight flexible metal conduit and fittings shall be sized in accordance with the National Electric Code and are Listed by Underwriters Laboratories and bear the appropriate UL mark. Each output cable shall be individually listed under UL Standard for Safety No. 478 as an NEC type "DP" (Data Processing) cable assembly.

Markings

Each output distribution cable shall be permanently labeled at each end of the cable with the UL mark, registration number, length and individual identification numbers.

Testing

All cables shall be thoroughly inspected at the factory for any defects in workmanship. All cables shall be tested for ground integrity, insulation leaks and proper phase rotation. All conductors shall be "Hi-Pot" tested at twice rated circuit voltage plus 1500 volts and pass the "Production Line Dielectric Withstand Test" using Biddle Model 230315 test equipment.

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UL Online Certifications Directory

QQYZ.E192099
Wiring Assemblies

Wiring Assemblies

See General Information for Wiring Assemblies

POWER CABLING CO, DIV OF E192099
ELECTRI-CORD MFG CO
312 E MAIN ST
PO BOX 167
WESTFIELD, PA 16950 USA
Last Updated on 2001-04-09

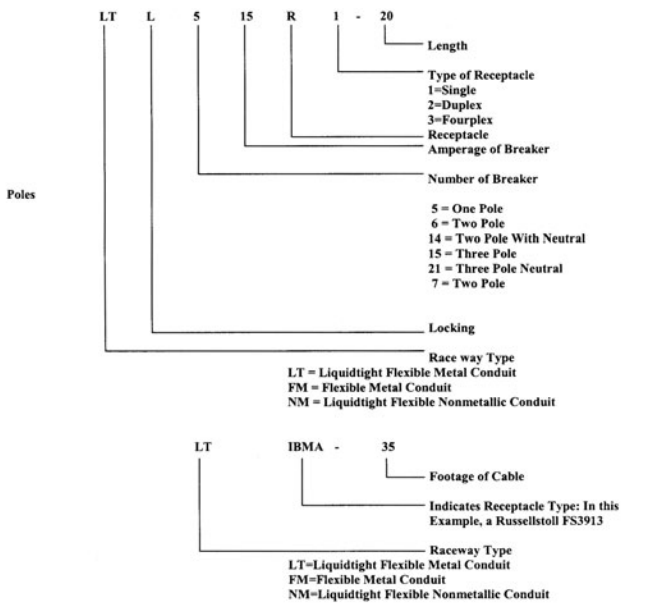
UNDERSTANDING THE
UL PART NUMBER LABEL

DESCRIPTION

PRODUCT COVERED:

Wiring Assemblies.

Cat. Nos.



UNDERSTANDING THE NEMA CODE

Example: L515R1

"L"

means that the device is "locking".

If no "L" is present the device is straight-blade.

If "IG" is present, it means the device has an "Isolated Ground".

(See cable descriptions)

"5"

The first number designates the "pole" and voltage:

5 = 1 Pole, 120v

6 = 2 Pole, 208v

14 = 2 Pole, 208/120v

15 = 3 Pole, 208v

21 = 3Pole, 208/120v

"15"

The second set of numbers designates the device AMPERAGE.

L515R2 is rated for 15 amps. L530R is rated for 30 amps and so on.

"R"

The last letter designates the device type:

R for receptacle. P for plug, and C for connector.

"Hard wire" or "Field Wire" are terms for cables that do not have devices (receptacles / connectors / plugs) installed on the end of the cable. They typically have 2' of free wire on one end that gets wired directly to the equipment requiring power.

The part number designations are broken down as follows:

First number indicates amount of poles' second numbers indicate amperage:

FW115 = 1 pole, 15 amps

An "N" at the end of the part number indicates a separate "neutral" wire:

FW220N = 2 pole, 20 amps w/neutral

Note* All single pole field wire cables include a neutral. A separate "N" is not required.