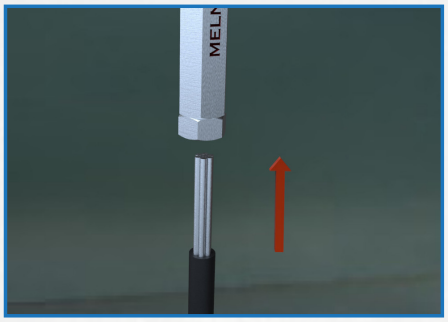
MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

Setting A New Standard In The Electrical Industry.

1. Acquire all components, attach BD-2HLS to paddle.



2. Insert conductor into the BD-2HLS.

3. Tighten nut to value on label.

REMKE CONNECTS YOU TO MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

Traditional electrical connector methodology is based on crimping, using a device to conjoin two pieces of metal by deforming one or both of them in a way that causes them to hold to each other. This requires multiple lugs and specialized dyes, each one manufactured for a specific cable size.

The process is lengthy and intricate, requiring precise tools to secure the connection, such as hydraulic or mechanical crimps that are expensive and hard on the installer's back and shoulders.

Though this practice is time consuming, expensive and hazardous, it has been the accepted process for years.

But all it takes is one idea to change everything.

Introducing the BD-2HLS Melni Crimpless Connector.

The BD-2HLS is a mechanical connector that can replace existing commercial mechanical and crimp-style connectors. Its crimpless installation design and spiral insert technology simplifies the connection process making it safer, easier and less expensive.

A revolutionary innovation, the BD-2HLS is redefining the electrical industry.

While traditional 2-hole lugs are non-range taking, the Melni BD-2HLS accepts anything between 2/0 AWG and #2AWG, spanning a large range of cable and wire sizes, and drastically reducing installation time.

The BD-2HLS is all that's required for a variety of electrical applications - having multiple lug sizes and specialized dies on hand just isn't necessary anymore.

Traditionally, dependable electrical connections require multiple measurements, tool change outs and crimps. But, with the Melni BD-2HLS, you can cut down on time and labor - standard, everyday wrenches are all that's needed to forge a fast and reliable connection.

Excessive force and physical strain doesn't have to be part of the process.

The BD-2HLS exceeds the UL secureness standards by over 250 pounds and is ergonomically better than any other traditional crimping tool on the market today. It is also UL rated for both aluminum and copper cabling, reducing the number of tools required for daily installations.

The Melni crimpless connector is applicable across the electrical industry and will forever change how Power Lineman, Electrical Contractors, High Voltage Electricians, Construction Lineman and others install power, splice or change-out cords and cable.

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

Meet Mark Melni

Source: http://www.techhelp.org/melnisuccess/

Mark Melni is an ”Inventrepreneur,” combining the innovative mind of an inventor with the drive, vision and business sense of an entrepreneur.

Having spent most of his adult life working with computers and wires, it pained Mark to see his staff at Microchips Etc. wear out their hands crimping wires in the traditional manner. He knew there had to be a better way.

In the summer of 2007, Mark invented The Melni Electrical Connector in his garage. With a design concept similar to the Chinese finger trap, this revolutionary invention contains an electrically-conductive spiral. Once the connector is twisted, the spiral can “grip” stripped wires, cables and other elongated elements to securely connect them. Featured on ABC’s Shark Tank, Melni moved forward to market a patented, UL approved electrical connector.

The Melni product pipeline has grown to include a Direct Burial Butt Splice Connector, a Solar Connector, a Modular Connector, a Battery Terminal, a Lug Terminal, a Zap Nut Connector and an Immediate Splice Connector.

Remke is the Master Distributor of Melni Connectors for the electrical industry.

Featuring the BD-2HLS, a no-crimp electrical connector making it simple to power, splice or change out cords & cable. It’s one tool for all your electrical needs.

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

Out with the old.

To forge a dependable electrical connection, some sort of connector or terminator is required. Wires, crimp connectors, a crimping tool, battery drill motor and an adjustable wrench is generally the equipment used when connecting traditionally. Generally speaking, you attach the connector and insert the other cable or wire, then use a crimper to crush the connector down onto the wire, requiring a lot of force and strength on the part of the lineman or installer.

Traditional crimping requires space to crimp and time to test out and locate the right size crimps for effective, safe connections. The proper conductor needs to be matched to the correct size lug and die tool or hydraulic crimper. Lugs come in a multitude of sizes and installers need to have many on hand to fit an array of cable or wiring.

Crimping often requires expensive crimp devices and specially gaged dies that are awkward to hold, difficult to transport and expensive. Crimping in multiple places to secure the connection is recommended, but time consuming to position the lug properly and hard to hold. The process can result in misalignment of the bolt hole in the paddle and improperly crimped wires, forcing the user to redo the connection, wasting time and materials.

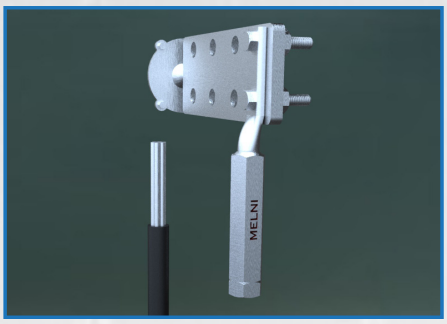
"I have looked at and understand the application of Mark Melni's invention, and I think it is by far the best design I have ever seen. The surface area of the conductor is contacted in a manner that is far superior to a crimp connection, thereby eliminating the heat problem from a bad crimp."

Steven Westphal, Licensed Journeyman Electrician
State of Idaho – ELE J 4971 – Issued 01.11.80
Electrical Contractor – ELE C 13609 – Issued 04.20.92
Public Works Contractor – PW C 11079 – Issued 04.05.93

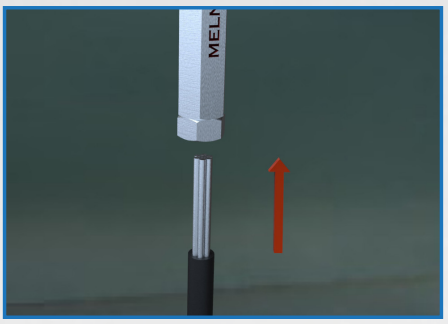
REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.



1. **Acquire all components, attach BD-2HLS to paddle.**



2. **Insert conductor into the BD-2HLS.**

3. **Tighten nut to value on label.**

In with the new.

We make the process simple and quick. When using the Melni BD-2HLS, all that's needed is the wire or cable, BD-2HLS and an adjustable torque wrench.

Once all components are in place, attach the BD-2HLS to a paddle and insert the conductor into the connector. Hand-tighten the gripper/seal ring on the Melni connector and then use a torque to tighten the connector to the value on the label. Put washers and nuts on the bolts, then tighten to proper wrench.

Melni's spiral insert technology collapses around the conductor as the nut on the end of the connector is tightened, resulting in a complete wrapping of the conductor with the Melni connector. The elements inside the connector constrict down on top of the conductor, creating a perfect environment for the electrical transfer.

Time spent searching for the right size lug is completely eliminated as the BD-2HLS accepts a wide range of conductors (2/0AWG - #2 AWG) reducing install equipment needed and labor.

This process eliminates the time-consuming, unreliable and expensive crimping, soldering and wrapping that is prevalent with many current electrical connectors today.

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

The Melni BD-2HLS is proven to be ergonomically better for you.

In July, 2016 an ergonomic assessment of the Melni BD-2HLS mechanical lug connector (Melni connector) was conducted by Lee Ostrom, Ph.D., CSP, CPE, CTM in Idaho Falls, ID within a controlled industrial setting.

A report was published that documented the ergonomic assessments performed on the traditional lug connection for 2/0 electrical cable on an industrial panel and the Melni connector to perform the same connection.

The master electrician performed two (2) connections using each methodology. The tasks were performed in the Melni laboratory area on a mocked up electrical panel simulating connection 2/0 cable to a transformer or industrial panel. The data was analyzed using observational/video analysis and the Rapid Upper Limb Assessment (RULA) tool to perform a postural analysis of the two sets of tasks.

Results:

The analysis found that the ergonomic risk factor associated with the Melni connector method was minimal as was the posture of the electrician leaning into the panel when tightening the connector nuts and the Melni connector.

But, it was quite apparent that using the traditional method and crimping tool places great musculoskeletal stress on the user.

The ergonomic risk factors associated with the traditional connection method were as follows:

- **Twisted back postures for several aspects of the task**
- **Repetition associated with crimping the lug connector**
- **High forces and duration when crimping the lug connector**
- **Compression of the thigh, shoulders, and hands when crimping**

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

Ergonomic Assessment Continued

Rapid Upper Limb Assessment (RULA) Scores

The RULA scores for the traditional connection method were 7+ (the highest score possible) indicating a person is working in the worst posture with an immediate risk of injury and changes should be made immediately.

The ergonomic hazards associated with using the Melni connector were fewer in number and, according to the RULA analyses, less stressful.

While RULA scores for 3 parts of the crimping process related to the traditional connection method were 7+, the highest RULA score for any of the steps associated with the Melni connector was 2, indicating it was an acceptable task. According to the RULA methodology, this task would be considered safe from an ergonomic perspective.

The report noted a clear risk of the crimping tool slipping while performing the crimping steps for a traditional connection leading to an acute injury. The Master Electrician also reported that he often suffers from bruises after doing a traditional lug connection.

> "I have been in the electrical distribution industry for over 26 years. Over the years, I have seen many different gadgets invented by electricians, but this terminal connector, I think, is revolutionary. I, as an electrical distributor, feel this product will change forever the way manufacturers look at the way they make their terminals. I would also be one of the first to stock and promote this product in the field."
>
> **Garret K. Karl, Manager**
> *Columbia Electric Supply*

Conclusion

The overall conclusion of the analysis was that the Melni connector method has significant ergonomic benefits over the traditional method of performing connections on 2/0 electrical cable to transformers/ industrial type panels and appears to take less time to perform.

The Melni method should replace the traditional method whenever feasible.

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

Any electrical application that utilizes a 2-hole lug can be switched to the BD-2HLS Melni design. Save time and prevent lineman injuries in the field with the Melni BD-2HLS crimpless connector.

Read first-hand, how Electrical Distributors, Master Electricians and Licensed Journeymen see real value and implicit benefit in the Melni BD-2HLS.

"My name is Ron Rinehart. I am Manager of Consolidated Electrical Distributors (CED) of Twin Falls, Idaho. I also manage the CED Profit Center in Jerome, Idaho. I have been in the electrical industry since 1971. I have worked as a panel builder, an apprentice electrician, and a wholesale distributor.

Over the past 30+ years, I have seen literally dozens of so-called, "new" devices for terminating wire. Some have made a successful impact in the market, and others have come and gone. I believe Mark Melni's wire termination invention is truly revolutionary. I have been asked, many times, for a wire termination that does not require purchase and use of an expensive crimp tool to make a wire termination. Even with the use of a proper tool, crimp terminations can fail, especially if installed by an untrained—or undertrained—person. Mark's invention would be virtually "tool-less" and could easily replace many different existing wire terminations and could be properly installed without specialized training.

I am eagerly awaiting production of this wire terminal and would be willing to stock and support promotion and sale of the end-product to our electrical contractor, OEM and industrial customers."

Ron Rinehart, Manager
CED – Twin Falls, Idaho
CED – Jerome, Idaho

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI

MELNI BD-2HLS
THE SMARTER CRIMPLESS CONNECTOR.

With their unique, patented spiral insert technology, Melni Connectors have changed the game in the electrical industry.

Considering the minimal install time, range-taking capacity and basic equipment requirements, the Melni BD-2HLS serves as the best alternative to traditional crimp connectors.

At Remke, we are proud to partner with a company that's producing innovative solutions for quick, reliable electrical connections.

Replace inefficient mechanical and crimp-style connectors with the Melni Smarter Crimpless Connector today!

To learn more about the Melni BD-2HLS, contact Remke at Remke.com | 1.877.438.8833

"I graduated from Great Basin College in Electrical Technology in 1998. Since then, I have worked as an industrial electrician and controls technician in the mining and food processing industries. I have had the opportunity to work around motors and electrical connections from 1 HP to 6000 HP and voltages of up to 24kV. During my experience in the field, I have seen numerous connection failures in many different applications. I have seen and understand the theory of operation of the invention that Mark Melni is proposing, and I believe this invention will change the industry standard for electrical connections. His design is perfect. The area of the conductor that makes contact with the connector, and any other conductors that are included in the connection, far surpasses that of any connector that I have ever seen on the market, greatly reducing heat in the connection. And, a by-product of this design is that by the design itself, human error is virtually eliminated, and good connections can be made—every time. I can't stress enough how important I think it is to the industry that you take the time to see how this invention works. You will not be disappointed."

Kirt Johnson, Manager
Darigold Process Control Division
Jerome Idaho Plant
Idaho Electrical License #J16115

REMKE CONNECTS YOU TO
MELNI SMARTER CRIMPLESS CONNECTORS

847.325.7825 OR VISIT WWW.REMKE.COM/MELNI