



INDUSTRIAL STRENGTH ELECTRICAL PRODUCTS FOR INDUSTRIAL STRENGTH USERS



Duraline[®]
MADE WITH PRIDE IN THE USA



1. Male & Female 518 Sr.
[Blue Female & Red Male]
518 Jr. [Black]
518 Micro Male and
2. Light Streamers
3. 5MJ15 & 5FJ15
4. Cam-Type Single Pole
5. Streamer Socket

SECURELY POWERING INDUSTRY AND THE MILITARY FOR OVER 65 YEARS >>



INDUSTRIAL

Duraline® connects industries – from utilities to transportation, shipbuilding to food processing – and can implement a solution for virtually any water and environmental power distribution problem. Our connectors can handle up to 1,100 amps and 5,000 volts and are built with up to 20 conductors.



MILITARY

Duraline® Cam-type positive latching connectors are the standard used by all Navy facilities and shipyards, both in the USA and abroad. Nobody puts a connector through its paces like the Navy. That's why they've ranked Duraline® connectors as the finest connectors available.



COMMERCIAL

Lights, camera, action! Duraline® products help light up and power the film and theater industries, as well as carnivals, cruise lines, convention centers, and virtually every enterprise that has high-power distribution needs.

IF IT'S INDUSTRIAL AND ELECTRICAL, IT HAS TO BE Duraline®

Duraline® was established in 1946 as a supplier of safety-engineered electrical distribution systems to the U.S. Navy and commercial shipbuilding industry. Since then, we've grown to supply industries as diverse as mining, petrochemicals, aviation, railroad and food processing to medical, entertainment and telecommunications.

Duraline® products are made with pride right here in the USA. All molding, soldering, crimping and assembly are done on-site at our Florida facilities. In addition, we have the latest CNC lathe and milling machines to produce custom work on-site.

To guarantee that our products are safe, we follow the most stringent manufacturing and quality control requirements and are audited quarterly by outside NRTLs to ensure compliance. Tell us your needs. At Duraline®, we're ready to exceed your expectations.





TEMPORARY LIGHTING SYSTEMS

LET THERE BE LIGHT UNDER ALMOST ANY CONDITIONS

Whenever temporary lighting is needed, it's usually needed in the most challenging environments. That's why Duraline® manufactures temporary lighting systems that perform flawlessly and safely, even under the harshest conditions: wet and cold, steamy and hot. From shipyards to construction sites to bridges, tunnels and mines, Duraline® lights the way.

All Duraline® temporary lighting products are molded to heavy-duty 600 volt SOOW cable in solid rubber. Some manufacturers consider our systems overbuilt. We think they're built just right.

- 6. Heavy-Duty Streamer
- 7. Vapor-Proof Streamer
- 8. Handlight
- 9. Specialty Streamer
- 10. Rotary Switch [Red]
GFCI In-Line [Black]



11. Optional 12-Volt Round Transformer Available



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12. Cam-Type Single Pole Connectors
13. 30M2/30F2 [Brown]
MTP2 [Yellow]
FTP2 [Red]
2W30P [Black]

ELECTRICAL CONTROL CONNECTORS

NOTHING IS TOUGHER THAN Duraline®

Whether submerged in water, dragged through the mud or run over by a speeding truck, Duraline® connectors make electrical connections that last. No matter how extreme the environment or hazardous the conditions, you can turn to the company with the world's highest quality, custom-designed, submersible, IP68-rated connectors and lighting.



SINGLE-POLE POWER CONNECTORS

We build positive latching ball nose, J-style, long shroud and polarized styles for virtually any heavy-duty application. We can also build custom styles in custom colors to fit your specific needs.



MULTI-PIN POWER CONNECTORS

Duraline® builds a wide variety of connectors ranging from 2 to 16 pin configurations in a range of shapes and sizes. All exceed O.S.H.A. requirements, and are suitable for IEC Class IP67, IP68 and/or NEMA 6 applications.

Duraline® connectors are built right and built tough in the USA, so you know you can trust the quality. We have a 50+ year track record of reliability in the harshest environments to prove it. They all feature solid, molded thermoset rubber construction with no voids or air gaps and solid copper alloy contacts that are sized to reduce heat buildup and increase product life.

Duraline® CONNECTORS

- » CHEMICAL AND FUEL RESISTANT
- » VIBRATION RESISTANT
- » WATERPROOF AND MOISTURE RESISTANT
- » SELF-EXTINGUISHING [UL-94 V-0 RATED]
- » CRUSH-PROOF
- » UV-STABILIZED TO PREVENT FADING



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When professionals need to connect thousands of volts safely and securely, they depend on thoroughly tested, USA-made Duraline® products.

14. 3MT20/3FT20S [Blue]
35M3/35F3 [Black]
15MP3 [Small Red]
3MFP30 [Big Red]
15. 30F4/30M4 [Blue]
5J15 [Small Black]
4M50 [Big Black]
60MFP4/60FP4 [Big Orange]
4M20 [Small Orange]
16. 6MP30, 8MP10/8FP10,
10MP7, 16MP7





17. Cam-Type Single Pole Connectors

18. Ship-to-shore 3-gang top and bottom cover plate receptacle assembly, shown here with protective snap covers.

MAKE EVERY CONNECTION SHIPSHAPE

Duraline®'s Positive-Latching Single Pole Cam-Type Connectors are designed for quick, safe, positive power connections.



Shore Power Panel Box showing 30 degree angled housing assemblies in 3 and 4-gang configurations, with snap covers or molded caps. Individual 30 degree molded receptacles are also shown.

High conductivity with low resistance is assured through connections that lock tight and stay tight, yet can quickly and easily be connected and disconnected without the need for tools. As the original manufacturer of the Cam-Type style positive latching connector and receptacles, we have been supplying shipyards for over 50 years, and our connectors are the standard used by all Navy facilities and shipyards, both in the United States and abroad. Our connectors have been thoroughly tested and field-proven to be the finest available. These locked connectors are impervious to vibration and will not twist loose from cable flexing; all this while maintaining a highly conductive fit, allowing the connections to run cool.

The connectors maintain positive connections through a unique latching design. High locking pressures are developed, yet unlocking is quickly accomplished by depressing an insulated, external button.

Insulators are available in several colors for phase identification. Typical applications include motor connections, generators, power panels and ship-to-shore systems. Polarized contacts have a male pin female keyway, which prevent incorrect phasing of power connections.

SINGLE POLE IN-LINE CONNECTORS ARE AVAILABLE IN THREE BASIC INSULATOR STYLES:

- J-SERIES-TAPER NOSE
- BALLNOSE SERIES
- LONG SHROUD-LONG TAPER NOSE

THE INSULATORS ARE ALSO AVAILABLE WITH BACK ENDS SUITABLE FOR VULCANIZATION TO CABLE, OR FOR INSTALLATION AS FIELD ATTACHABLE CONNECTORS (FA).

Duraline® ALSO MANUFACTURES PANEL MOUNT RECEPTACLES, MOLDED TO CABLE RECEPTACLE BLOCKS AND STEEL RECEPTACLE ENCLOSURES TO SUIT YOUR APPLICATION.



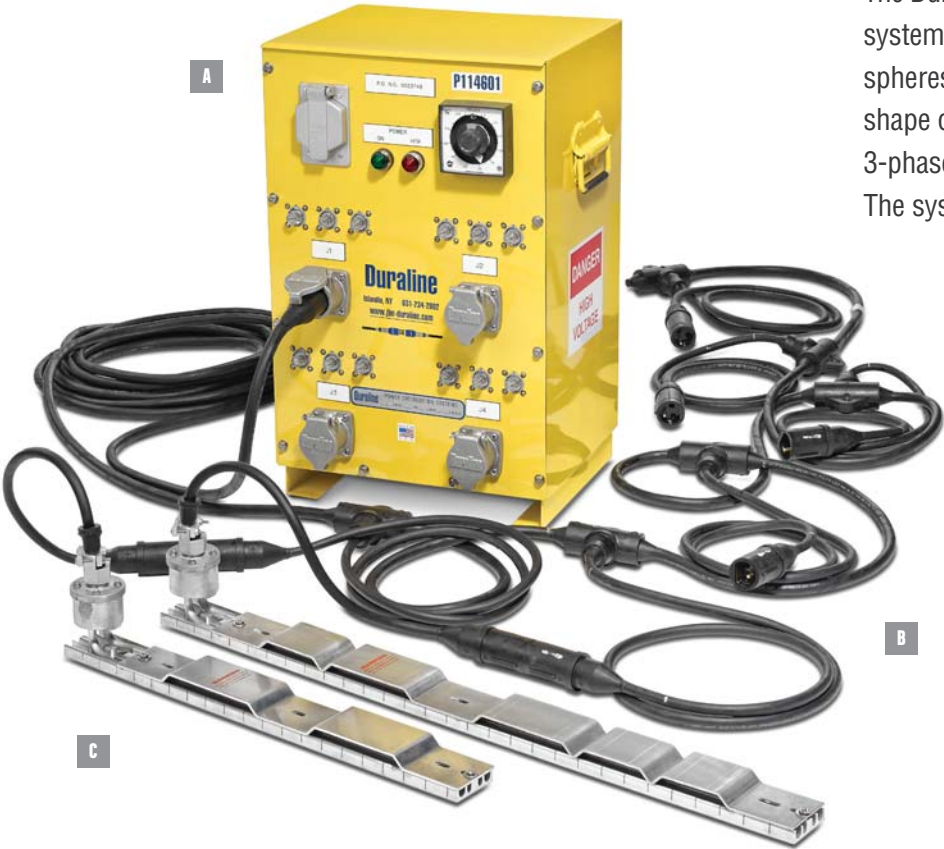
Shore Power Cable Assembly with molded crotch, molded to THOF500 Cable.

A COMPLETE PLUG-IN SYSTEM TAILORED TO YOUR WORK

MINI-STRIP HEATER SYSTEM FOR PREHEAT

The Duraline® Mini-System is a line voltage resistance heating system. Its main applications are for preheating plates, spheres, vessels and other weldments having a fairly regular shape or a radius great than 1'. It is designed for use at 480V, 3-phase, 60A, 60HZ and can deliver up to 48KW for pre-heat. The system is comprised of:

- A. 146 Controller Panel – A weather-tight controller equipped with (4) 20A, 4-pole receptacles and appropriate fuses. Unit includes a step-down transformer (480/120) for control circuits, and temperature control is by means of a 1 minute percentage timer.
- B. 147 Power Streamer – An all-molded distribution line with 4-wire input connector, 3-wire output connectors and taps permanently bonded to the cable jacket. Input connector plugs into the Controller. There are (6) molded taps with staggered and balanced phases to each of the (6) output plugs.
- C. Strip Heaters – The standard strip heater for the mini-system is a 36", 2000W heater, however other options are available such as 12", 18" and 24" lengths. 72" lengths are also available for other applications.



SYSTEM LAYOUT

- D. Input cable assembly – From main breaker or safety switch to automatic control unit – bonded conductors of 600V, double-jacketed 2/0 cable with molded “donut” joiner and hanging hooks every 3'. Standard length, 50'. Other lengths available, and end connectors and lugs provided on assembly to suit installation.
- E. Primary Distribution Panel – Model 4P6, with grounding stud – Solid-molded thermoset rubber block with (6) 3-pole, polarized female receptacles, rated 60A each. Input – (3) male Duraline® connectors on 2/0 cable. Block is rated 180KW at 460V, 3-phase.
- F. Secondary Distribution – 30DB6-4S, 6-outlet, distribution block – block includes a 60MFP4 male fused plug input connector molded to 25' or 50' of 10/4, SOOW cable. 480 volts, 3-phase, maximum load allowed with this block is 15,000 Watts.
- G. Distribution Spider – Includes a 30MFP316 male fused plug on input side, fused at 15 Amps, 480 volts to mate with 30DB6-4S secondary distribution block. The 14/3 cable is split into two or three legs by means of a molded junction and each of the output legs includes a molded connector to suit the appropriate heater for the application.



INPUT CABLE ASSEMBLY AND INTERMEDIATE DISTRIBUTION CABLE ASSEMBLIES

From main breaker or safety switch to automatic control unit, and from automatic control unit to primary distribution panels, respectively – bonded conductors of 600V, double-jacketed 2/0 cable with molded “donut” joiner and hanging hooks every 3'. Standard length, 50'. Other lengths available, and end connectors and lugs provided on assembly to suit installation.



HEATER CORD — MODEL 30MFP-3

From secondary distribution block to heater – 3-pole polarized male fused plug with strain-relief handle molded to 14/3, 105 degrees F., SOOW cable. High temperature lugs crimped on other end with strain relief bushing and mounting hardware for assembly to heater. Standard length is 15' with other lengths available.



TC-108 THERMATROL PERCENTAGE TIMER CONTROL TIMER

480 Volts, 3-Phase – The Thermatrol Control Unit is the heart of the system, and is built to NEMA standards for watertight integrity and outdoor use under all conditions. It incorporates a percentage timer, variable from 0 to 100% of a minute, a 24-hour clock for starting and stopping the system at any specified time, and a bypass switch for periods when the clock is not in use.



30DB6-4S, 6-OUTLET DISTRIBUTION BLOCK WITH ROTARY SWITCH

30DB6 Power Distribution Block with 460V, 60A, 60MFP4 male fused input plug. Molded, In-Line rotary disconnect switch available.

SPECIALTY ITEMS



518 SR FA

Duraline®'s 518 Series high-power connectors feature an innovative 360-degree ball and socket locking collet design. This allows the connector pairs to be mated and locked without regard to a specific orientation. There is no cam or keyway to line up, and there are no polarizing positions or twisted cables to worry about. When engaged, the locking ring provides positive locking force while allowing free rotation, even with rigid cables.



IN-LINE GFCI [BLACK]

Watertight/Sealed GFCI in-line block, 125V, 20A with molded cover. This GFCI in-line block, tested for submersion in 3 feet of standing water has a sealed molded cover. The internal GFCI can be reset, from the top of the block without having to remove the cover.

IN-LINE ROTARY SWITCH [RED]

In-Line rotary switch is a 3-phase, safety-disconnect that allows operator to shut power at work site to disconnect and reconnect devices from and to power line.

POWER DISTRIBUTION PANEL CUSTOM BUILT TO YOUR SPECIFICATIONS

Duraline® designs and manufactures portable power distribution centers and components for temporary electric service for large construction sites, plant maintenance, multi-building complexes, utilities, sports centers and anywhere else temporary power is required. All power distribution centers are manufactured in 12 gauge steel and are reinforced with steel "A" frames, enabling the centers to withstand indoor and outdoor construction site environments and abuse. Additionally, they can be used job after job, eliminating the cost of temporary wooden racks. All Duraline® portable power distribution centers are custom-built to meet the needs of the customer and the intended environment.



Key Benefits:

- Labor Saving – Temporary distribution assembly is eliminated, reducing amount of man-hours required to set up system.
- Material Savings – All breakers, receptacles and distribution are permanently housed enabling them to be reused.
- Convenient – One primary connection energizes the entire panel, and a variety of outlet sizes and styles can be installed at the customer's request.
- Safe – The entire panel can be de-energized by a master breaker, and each separate circuit is protected by its own breaker. All receptacles are grounded and 120-volt receptacles have GFI protection.
- Portable – The centers can be readily transported from location to location by crane or forklift. Removable legs make storage and transportation simple. One single panel is a power source for heavy equipment, hand tools and lighting.



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Duraline®
MADE WITH PRIDE IN THE USA



518 SR, Field Attachable, for up to 5KV, 1000A



Shore-Power, Field-Attachable, Cam-Type Connectors

