

MC CABLE

Type MC (Metal Clad) Cable Assemblies

Metal Clad cables are assemblies of one or more insulated circuit conductors with or without optical fiber members enclosed in an armor of interlocking metal tape, or a smooth corrugated sheath.

MC cables are widely used in 600 volt and medium voltage power, lighting and fixture whip control applications. MC Cables are permitted for use on services, feeders and branch circuits for power, lighting, control and signaling circuits.

MC cables are not permitted to be installed where subject to physical damage. MC cables must be supported and secured at intervals not exceeding six feet.

In many industrial application type MC cables, routed in cable trays, have proven to be an excellent economic alternative to wire in rigid conduit. When electrical wiring needs extra protection, metal-clad (MC) cable is a great solution and often required by electrical codes. MC cable is easier to work with than rigid conduit, and it too offers protection from fire, vibration, gnawing pests and physical harm in general.

MC Cable

Pros:

- Smaller outer diameter
- Lighter weight
- Excellent alternative to rigid conduit

Cons:

- Risks in manufacturing process
- Limited standard conductor color options
- Lacking conduit color options
- Limits labeling options
- Dirty jacket residue



Type MC Power Cable Assembly

PDU CABLES

Custom Cable Capabilities

Since 1981, PDU Cables has been the leading manufacturer of prefabricated power distribution cable assemblies to data centers throughout North America.

In addition to Liquid Tight Flexible Metal Conduit and Flexible Metal Conduit, PDU Cables is seeing a growing number of cable requests involving SO Cord, Tray Cable and MC Cable for applications including drop cords, feeder cables, battery and generator cables.

Building out or remodeling an open floor workspace? Are you reconfiguring a production line or warehouse? Need to bring power to workstations or equipment? We can help design the power cables necessary for each of your unique power supply needs. From custom overhead electrical drops with single or multi-circuit configurations, to junction box assemblies.

With inventory, tools, and capacity to produce thousands of cables weekly, each power cable PDU Cables prefabricates is UL Listed, pretested and comes with a limited lifetime warranty.

Whether you need a single cable or thousands, PDU Cables can meet your needs. Tell us what you want, and we'll help design it to NEC standards and then build it for you.

CUSTOM CABLE CAPABILITIES

SO Cord

Tray Cable

MC Cable



PDU Cables™
connect with us™

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PDU Cables™
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2" MC Cable 225 Amp Power Feed

SO CORD

SO Cord (SOOW) Cable Assemblies

Through its many varieties, SO cord is incredibly versatile, making it the most popular electrical cord on the market. The different types of rubber or plastic jackets surrounding the multi-conductors give you options for choosing the safest, most cost-effective cord option for your project.

SOOW is the most popular type of SO cord, and commonly used in industrial settings and offices. SO cord cable assemblies are commonly found in warehouses and offices where delivering overhead power to tools, and work stations are a must. It has a 600-volt rating but also comes as a junior service cord, SJOOW, which is rated for 300 volts.

SOOW is incredibly durable. Its thermoset rubber jacket makes the cord weather resistant, and the jacket hardens under a direct application of heat, which allows the cord to be unaffected by aging, abrasion, water, sunlight, and ozone. Oil-resistant insulation and jacketing lend to the cord's durability as well.

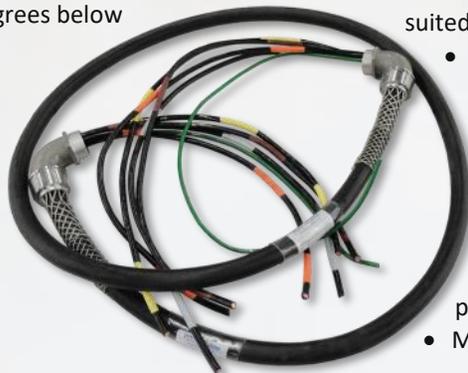
SOOW wire can be submerged underwater and is flame retardant; therefore, it's safe for all indoor and outdoor projects. The cord is safe up to 221 degrees Fahrenheit and offers flexibility at temperatures as low as 40 degrees below Fahrenheit.

Features:

- Extra-flexible stranding
- Abrasion-resistant
- Resists oils and solvents
- Flame-retardant
- Ozone-retardant
- 90° C rated conductors and jacket
- Water-resistant
- UL listed and CSA certified for indoor and outdoor use
- Ideal for overhead drop cord applications



SO Cord Cable Assembly



SO Cord Feeder Cable with Cord Grip

The types of SO cord:

- S** = Service cord
- J** = Junior service cord
- O** = Oil-resistant outside jacket
- OO** = Oil-resistant both inside insulation and outside jacket
- W** = Compliance, Safety, Accountability (CSA) designation for weather and water resistance
- T** = Thermoplastic
- E** = Elastomer

SO Cord

Pros:

- Pliable
- Moisture resistant
- Smaller outer diameter

Cons:

- Expensive
- Jacket off gassing (odor)
- Sticky jacket attracts dust
- Termination issues
- Limited configuration options
- Lead times
- Lacking conduit color options

Tray Cable

Pros:

- UV, moisture and oil resistant
- Offers a flexible, tight bend radius, suited for overhead basket trays

- Label friendly
- Lighter weight than either LFMC or FMC
- Overhead friendly

Cons:

- Can only be UL listed with inline devices
- Only available in Black and Grey
- More waste during the manufacturing process
- More expensive than traditional conduit options



DLO Cam-Lok Generator Cable



Tray Cable ATS Jumper Cable Assembly

TRAY CABLE

Tray Cable (STOOW) Cable Assemblies

Tray Cable (STOOW), Cable Assemblies STOOW cord, has the same oil and water-resistant features as SOOW and SEOOW, and you can use it in both indoor and outdoor applications. However, it has a thermoplastic (PVC) jacket that is the least flexible of the three options and deforms under extreme heat or pressure. This type of SO cord should have minimal exposure to chemicals, oil, and extreme temperatures.

Tray Cables are rated for 600 volts and designed for general use in manufacturing, industrial, and commercial distribution systems.

The use of Tray Cable is becoming more prevalent in overhead applications that require lighter weight conduit with increased flexibility and a tighter bend radius. Commonly run in suspended basket tray or ladder racking, Tray Cable has superior UV, moisture, and oil resistant properties. While color options are limited, Tray Cable is label friendly, allowing power path identification with colored conduit labels. UL listing limitations require the use of inline devices only.

Meltric PF400 power cable assembly with Cam-Lok and Strain Relief the assembly weighs 400 lbs.

