

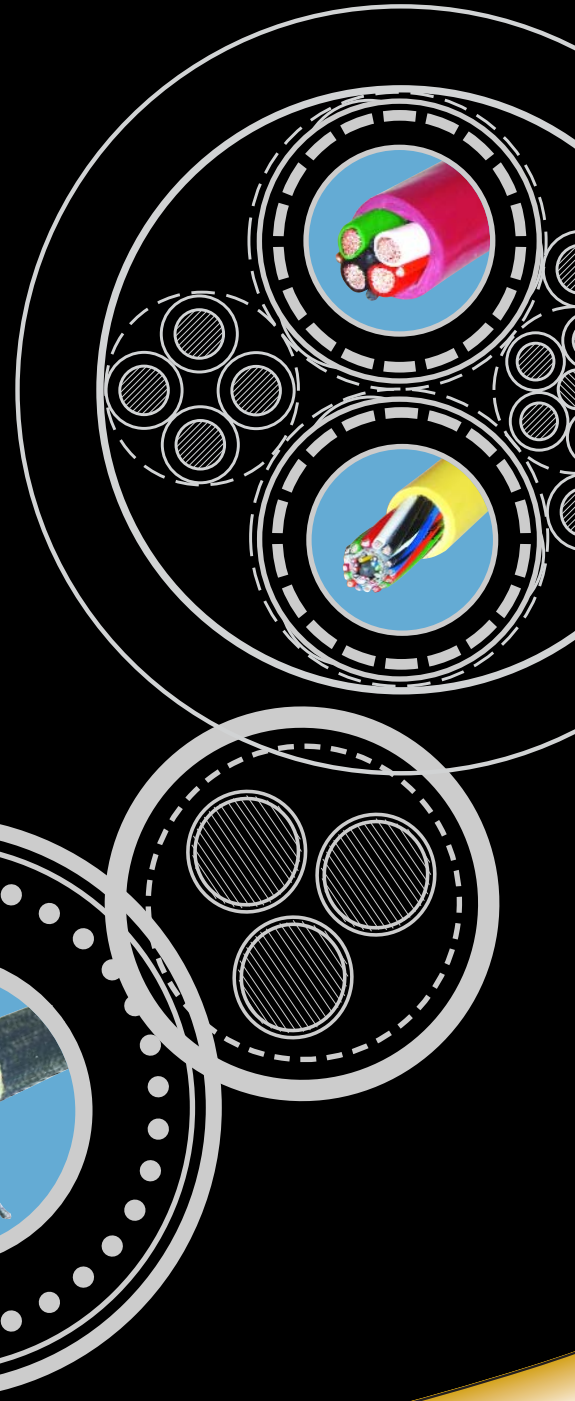


TPC WIRE & CABLE

A Premier Farnell Company

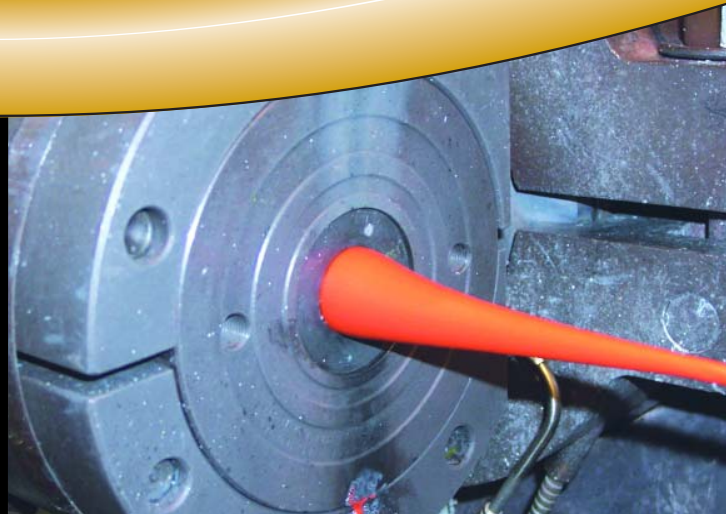
DESIGNING SOLUTIONS

Custom engineered
wire and cable
for specific
application
requirements



TPC Wire & Cable

TPC Wire & Cable



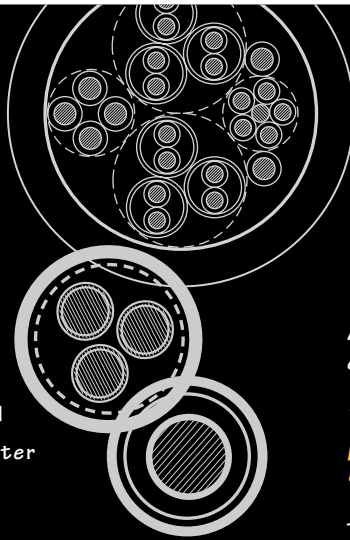
WIRE AND CABLE

is a vital link in your facility's electrical system.

Equipment requires quality cord and cable that can stand up to today's industrial environments.

Cord and cable applications are subject to one or more of the following conditions . . .

- Crushing & Abrasion
- Sunlight
- Impact & Vibration
- Extreme Hot & Cold
- Pulling & Flexing
- Oil, Chemicals & Water



CUSTOM DESIGNED AND ENGINEERED

high performance cables designed for the most demanding industrial applications. Cable designs include . . .

- Chemical Resistant Cables
- Custom Thermocouple Cables
- Kevlar Reinforced Cables
- Composite Cables
- High Temperature Cables
- Low Temperature Cables
- Custom Data Communications Cables
- High Tension Reeling Cables
- Water Resistant Cables

A major part of TPC's capabilities is working with customers to custom design and develop cables specifically for their application needs.

TPC's expertise in materials, design and manufacturing provides superior cable performance resulting in longer cable life and reduced equipment downtime.

TPC's cable design engineers can assemble the critical components of your cable into a final design that will give you a longer lasting cost effective alternative to constantly replacing cables.



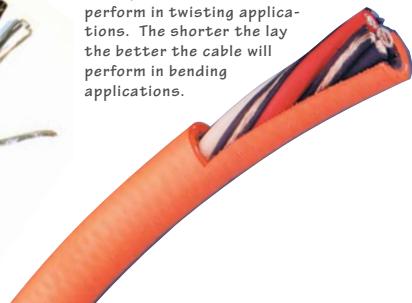
Jacketing is the first line of defense for any cable. Selection of the proper jacketing or over jacket materials is critical for cable life.



Shielding protects the electrical signal against EM and RF interference. In power cables, the shielding contains potential interference within the cable so that it does not affect control/communications conductors under the same jacket and other cables in close proximity.



Cabling "lay" of the conductors is the length of the twist applied to the conductors for one complete rotation. Depending on what the cable is designed to do, the conductors are twisted together in different ways. The longer the lay the better the cable will perform in twisting applications. The shorter the lay the better the cable will perform in bending applications.



Insulation life is affected by voltage, ampacity, temperature, flexing and frequency. Matching the insulation system to the application and environment is critical to maximizing cable performance.



Construction includes cabling and positioning of the conductors within the jacket to reduce the internal stresses and maximizing performance.

Conductors can be bare copper or copper that is plated with nickel, tin, or silver. The type of conductor is determined by both the application and the environment.

Stranding makeup has a significant impact on the flexibility of the final cable design. Selecting the proper stranding is critical to the product's overall flexibility.



Cables designed for . . .

- Abrasive Surfaces
- Alarm Systems
- Cable Reels
- Cat Tracks
- Control Pendants
- Critical Circuits
- Cutting Lubricants
- Elevators
- Ladle Cars
- Melt Furnaces
- Metal Machining
- Metal Treatment
- Outdoor Use
- Paint Booths
- Robotic Systems
- Sanitizing Areas
- Shuttle Presses
- Under Water
- Washdown Areas

Let TPC design the
perfect cable for you

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ONLINE www.tpcwire.com



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