

## Cable Specifications

Cable Materials, Applications, and Relative Costs

Cable Jacket Material	Applications	Relative Cost
<b>PVC</b> - <i>polyvinylchloride</i> is a general purpose thermoplastic jacketing material, it has good mechanical strength, and is resistant to chemicals.	Typically used in instrumentation and control environments as well as Food and Beverage applications.	<b>LOW</b>
<b>PUR</b> - <i>polyurethane</i> is a broad class of polymers noted for its resistance to abrasion and tolerance to solvents.	Well suited material for metal cutting environments and other applications that require higher flex rates and resistance to coolants, oil and grease.	<b>MEDIUM</b>
<b>PUR/PVC</b> - contains an inner wall of PVC and an outer wall of PUR material.	Cost effective replacement for 100% PUR in some applications.	<b>LOW/MEDIUM</b>
<b>IRRADIATED PVC</b> - cross linked PVC by means of irradiation. Contains the same properties of PVC, above.	Cost effective replacement for CPE in welding.	<b>MEDIUM</b>
<b>CPE</b> - <i>chlorinated Polyethylene</i> is a flexible synthetic rubber material with high tear strength, good wear resistance, resistant to most inorganic chemicals, inherently difficult to ignite due to its thermoset nature and provides good protection against the effects of ozone.	This material is well suited for welding and outdoor applications where heat, oils, coolants, and many other chemicals are used.	<b>HIGH</b>
<b>TPE</b> - <i>Thermo-Plastic-Elastomer</i> is a good general use cable, excellent for flexing applications, including C-Track. Very good resistance to oils and coolant. Similar to PUR	Hi-Flexing (C-Track) Power limited tray cable, excellent resistance to machining oils. Well suited for welding applications.	<b>MEDIUM/HIGH</b>
<b>Halogen Free PUR</b> - Polyurethane Jacket. Entire cable is halogen free. Very good for flexing applications and highly resistant to oils and coolants.	Similar performance to regular PUR, but meets the Halogen-Free requirements for European countries.	<b>LOW/MEDIUM</b>
<b>Halogen Free PUR - Irradiated</b> Same as Halogen-Free PUR, but has a jacket material that has been cross linked by an irradiation process.	Same as Halogen-Free PUR, but additionally is superior for welding applications.	<b>MEDIUM</b>