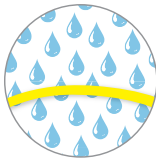
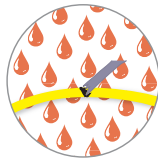


Choosing Between PVC, PUR, and TPE

CABLE JACKET SELECTION GUIDE FOR AUTOMATION CONNECTIONS

PVC, PUR, or TPE? Which cable jacket is best for your application?

| | PVC | VS | PUR |
|-------------------|---|----|---|
| What is it? | Polyvinyl Chloride Standard automation and washdown | | Polyurethane Abrasion and fluid resistant, halogen free |
| |  | |  |
| Benefits and Info | <ul style="list-style-type: none"> Widely available General purpose Typically best price point Durable High moisture resistance -55°...105°C (-67°...221°F) | | <ul style="list-style-type: none"> Mostly Asia and Europe Abrasion resistance Halogen free, reduced toxicity when combusted Excellent oxidation Oil and ozone resistance -40°...80°C (-40°...176°F) |
| Gotchas | <ul style="list-style-type: none"> Causes toxic black smoke Sensitive to UV and oxidation degradation Limited thermal capability | | <ul style="list-style-type: none"> Not recommended for high temperatures Service temperature limited |

Relative Cable Performance

| Resistance to: | PVC | PUR | TPE |
|-----------------------------|------------------|------------------|-------------|
| Oxidation | Excellent | Excellent | Outstanding |
| Heat | Good - Excellent | Excellent | Outstanding |
| Oil | Fair | Outstanding | Outstanding |
| Low Temperature Flexibility | Poor - Good | Excellent | Outstanding |
| Weather, Sun | Good - Excellent | Excellent | Outstanding |
| Ozone | Excellent | Excellent | Excellent |
| Abrasion | Fair - Good | Excellent | Excellent |
| Electrical Properties | Fair - Good | Excellent | Excellent |
| Flame | Excellent | Excellent | Outstanding |
| Nuclear Radiation | Fair | Excellent | Poor |
| Water | Good - Excellent | Good - Excellent | Excellent |
| Acid | Good - Excellent | Excellent | Excellent |
| Alkali | Good - Excellent | Excellent | Excellent |
| Gasoline | Poor | Excellent | Excellent |
| Benzol | Poor - Fair | Excellent | Excellent |
| Degreaser Solvents | Poor - Fair | Excellent | Excellent |
| Alcohol | Good - Excellent | Excellent | Excellent |
| Weld Slag | Fair | Excellent | Excellent |

Note: These relative ratings are based on average performance. Special selective compounding of the jacket can improve the performance.