## Cable Jacket Materials for Installation

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### 1. PVC (Polyvinyl Chloride)

PVC is perfect for indoor use, offering strong flame resistance and affordability. However, it's not suitable for extreme temperatures or environments with harsh chemicals.





## 2. PE (Polyethylene)

PE is the best choice for outdoor applications. It can handle moisture, UV rays, and harsh weather. However, PE doesn't perform well in environments where fire hazards are a concern.

## 3. PUR (Polyurethane)

For cables that need to move frequently, PUR is a top choice. It's resistant to oils, chemicals, and abrasion, making it perfect for industrial environments.





### 4. Ethylene Propylene Rubber (EPR)

EPR is a type of synthetic rubber that handles extreme temperatures, oxidation, and abrasion with ease. Its adaptable nature makes it suitable for both cable jacketing and insulation.

# 5. TPR/TPE (Thermoplastic Rubber/Elastomer)

TPR and TPE are great for cold environments. They stay flexible at low temperatures and resist oils and chemicals. However, they aren't as strong as PUR when it comes to heavy-duty use.





### 6. Thermoplastic CPE (Chlorinated Polyethylene)

Thermoplastic CPE is highly resistant to chemicals, UV radiation, and moisture, making it ideal for industrial and outdoor use. However, its lack of fire resistance makes it unsuitable for fire-prone indoor areas.

#### 7. Neoprene

Neoprene is perfect for extreme environments like marine and mining. It can handle heat, cold, and rough conditions without breaking. If your cables will face exposure to the elements, Neoprene is the best material for the job.





### 8. Fluoropolymers

Fluoropolymers provide excellent chemical resistance and can withstand temperatures up to 200°C, making them ideal for flame-retardant environments. However, they are more expensive and may release toxic fumes if overheated.

### 9. Cross-Linked Polyolefins (XLPO)

XLPO is a durable cable jacket material often used in high-traffic areas like office buildings and train stations. It protects cables from damage and helps reduce fire risks in the event of a fire.



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