

# OKONITE

## CABLE JACKETS



**THE  
OKONITE  
COMPANY**

*Setting the Standard in Quality Since 1878*



# JACKET COMPOUND FACILITIES



**Orangeburg Compound Campus, where all Okonite thermoset compound is produced.**



**Testing in our Orangeburg, SC Flame Test Center.**

## **Flame Test Center, Orangeburg, SC**

To ensure our designs meet or exceed industry standards and customer specifications, Okonite constructed a state-of-the-art Flame Test Center at its Orangeburg, SC campus. The facility received UL's Data Acceptance Program certification in 2021. This gives us the total control over the finished product: design, production and QA/QC. All done 100% in-house.

# CABLE JACKETS

From the very first cables we manufactured in 1878 until today, Okonite has been on the forefront of cable jacketing innovation. Cable jackets are critical components in the proper operation and service longevity of power, control and instrumentation cables.



Okonite offers many jacket materials to suit any application. Okolon- TS and Okoclear-TS Thermoset compounds are designed and manufactured at our Orangeburg, SC jacketing facility to ensure quality conformance. Testing at our Materials Research Lab in Paterson, NJ as well as our Flame Test Center in Orangeburg, SC assure the finished cable meets or exceeds all applicable industry and customer specifications.

This brochure is intended to give an overview of the various materials we offer and the associated characteristics of each.  
In a snapshot, here are the jacket compounds we can provide:

## Thermoplastic

- **OKOLON®-TP**-Thermoplastic Chlorinated Polyethylene
- **OKOCLEAR®-TP** Thermoplastic Polyolefin, low smoke Zero Halogen
- **OKOLENE®-PP** Thermoplastic Polypropylene
- **OKOLENE®-LLPDE** Thermoplastic Linear Low Density Polyethylene
- **OKOSEAL®** Thermoplastic PVC (Polyvinyl Chloride)
- **OKOSEAL®-FR** Thermoplastic PVC (Polyvinyl Chloride) with enhanced flame resistance
- **OKOSEAL®-LT** Thermoplastic PVC (Polyvinyl Chloride) with enhanced low temperature performance
- **OKOSEAL®-LT/FR** Thermoplastic PVC (Polyvinyl Chloride) with enhanced low temperature performance and flame resistance
- **OKOSEAL®-LF Jacket** Thermoplastic PVC (Polyvinyl Chloride) - Low friction

## Thermoset

- **X-Olene®** Thermoset Cross-Linked Polyethylene
- **X-Olene®-FMR** Thermoset Cross-Linked Polyethylene with enhanced flame and moisture resistance
- **OKOLON®-TS\*** Thermoset Chlorinated Polyethylene
- **OKOCLEAR®-TS\*** Thermoset Polyolefin, low smoke zero halogen

## Thermoplastic vs. Thermoset

Today, and for the last several decades, polymeric materials have been the predominant choice for cable jacket use. These can be divided into two general classes: Thermoset and Thermoplastic. In general, Thermoplastic jackets lose their physical strength as temperatures increase. Thermoset jackets maintain good physical strength at elevated temperatures.





For example, choose Okolon-TS over Okolon-TP or other thermoplastic jackets for superior tensile strength, elongation, flexibility, deformation resistance, flame and overall heat resistance.

\* Passes IEEE 383/1202 Vertical Tray Tests

Other jackets available upon request such as Thermoplastic Rubber, ETFE, and Semiconducting.



# CABLE JACKET CHARACTERISTICS

Jacket Material	Moisture Resistance	Minimum Installation Temperature	Stock	Thermoset or Thermoplastic	Typical Applications	 Flame Resistant	 LSZH	 Oil and Chemical Resistant	 Flexibility	 Abrasion Resistant	 Temp Range
OKOLON-TS TS-CPE	Excellent	-40°F	1/C 600V, 2000V, 2.4kV, 15kV	TS	<ul style="list-style-type: none"> <li>Power Plants</li> <li>Rugged Industrial</li> </ul>	BEST	NO	BEST	BEST	BEST	BEST
OKOLON-TP TP-CPE	Excellent	-22°F	NO	TP	<ul style="list-style-type: none"> <li>Industrial</li> </ul>	GOOD	NO	BETTER	BETTER	FAIR	BETTER
OKOCLEAR-TS LSZH Polyolefin	Excellent	-31°F	NO	TS	Greater Protection <ul style="list-style-type: none"> <li>In Transit Tunnels</li> <li>Indoor Substations</li> <li>Power Plants</li> </ul>	BEST	YES	BEST	BEST	BEST	BEST
OKOCLEAR-TP LSZH Polyolefin	Excellent	-22°F	NO	TP	<ul style="list-style-type: none"> <li>Transit Tunnels</li> <li>Indoor Substations</li> <li>Power Plants</li> <li>Occupancies</li> </ul>	GOOD	YES	GOOD	GOOD	FAIR	FAIR
OKOLENE-PP Polypropylene	Excellent	-40°F	NO	TP	<ul style="list-style-type: none"> <li>Utility</li> <li>Reduced Diameter with Flat Straps</li> </ul>	NO	NO	GOOD	FAIR	BEST	BETTER
OKOLENE-LLDPE LLD Polyethylene	Excellent	-40°F	all URO-J	TP	<ul style="list-style-type: none"> <li>Utility</li> <li>Transit Direct Buried</li> </ul>	NO	NO	GOOD	FAIR	BEST	FAIR
X-OLENE Cross-Linked Polyethylene	Excellent	-40°F	NO	TS	<ul style="list-style-type: none"> <li>Renewables</li> <li>Direct Buried</li> </ul>	NO	NO	GOOD	FAIR	GOOD	BEST
X-OLENE-FMR Flame/Moisture Resistant XLPE	Excellent	-40°F	NO	TS	<ul style="list-style-type: none"> <li>Nuclear</li> </ul>	GOOD	NO	GOOD	FAIR	GOOD	BEST
OKOSEAL PVC	Good	14°F	5kV, 1/C 69kV	TP	<ul style="list-style-type: none"> <li>Industrial (In Conduit)</li> </ul>	NO	NO	FAIR/GOOD	GOOD	FAIR	FAIR
OKOSEAL-FR Flame Resistant PVC	Good	-40°F	1/C 5kV, 15kV, 35kV	TP	<ul style="list-style-type: none"> <li>Industrial (In Tray or Conduit)</li> </ul>	GOOD	NO	GOOD	GOOD	FAIR	FAIR
OKOSEAL-LT/FR Low Temp Flame Resistant PVC	Good	-40°F	1/C 5kV, 15kV, 35kV m/c 600V, all CLX Voltages, 3/C 5kV and 15kV Instrumentation	TP	<ul style="list-style-type: none"> <li>Industrial (In Tray or Conduit Direct Buried)</li> </ul>	GOOD	NO	GOOD	GOOD	FAIR	FAIR
OKOSEAL-LF Low Friction PVC	Good	14°F	1/C 500 kcm 15kV	TP	<ul style="list-style-type: none"> <li>Industrial (Low Friction in Conduit)</li> </ul>	GOOD	NO	FAIR/GOOD	GOOD	FAIR	FAIR

# Okonite Cables

## Facilities Overview

### District Offices, Manufacturing Plants & Service Centers

#### Manufacturing Plants



Orangeburg, SC - Compound Facility



Orangeburg, SC - Manufacturing Plant



Richmond, KY - Manufacturing Plant



Santa Maria, CA - Manufacturing Plant



Cumberland, RI - Manufacturing Plant



Paterson, NJ - Manufacturing Plant

#### Atlanta District Office

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Kansas City, KS



New Orleans, LA



Portland, OR



Pittsburgh, PA

#### Corporate HDO



Ramsey, NJ



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