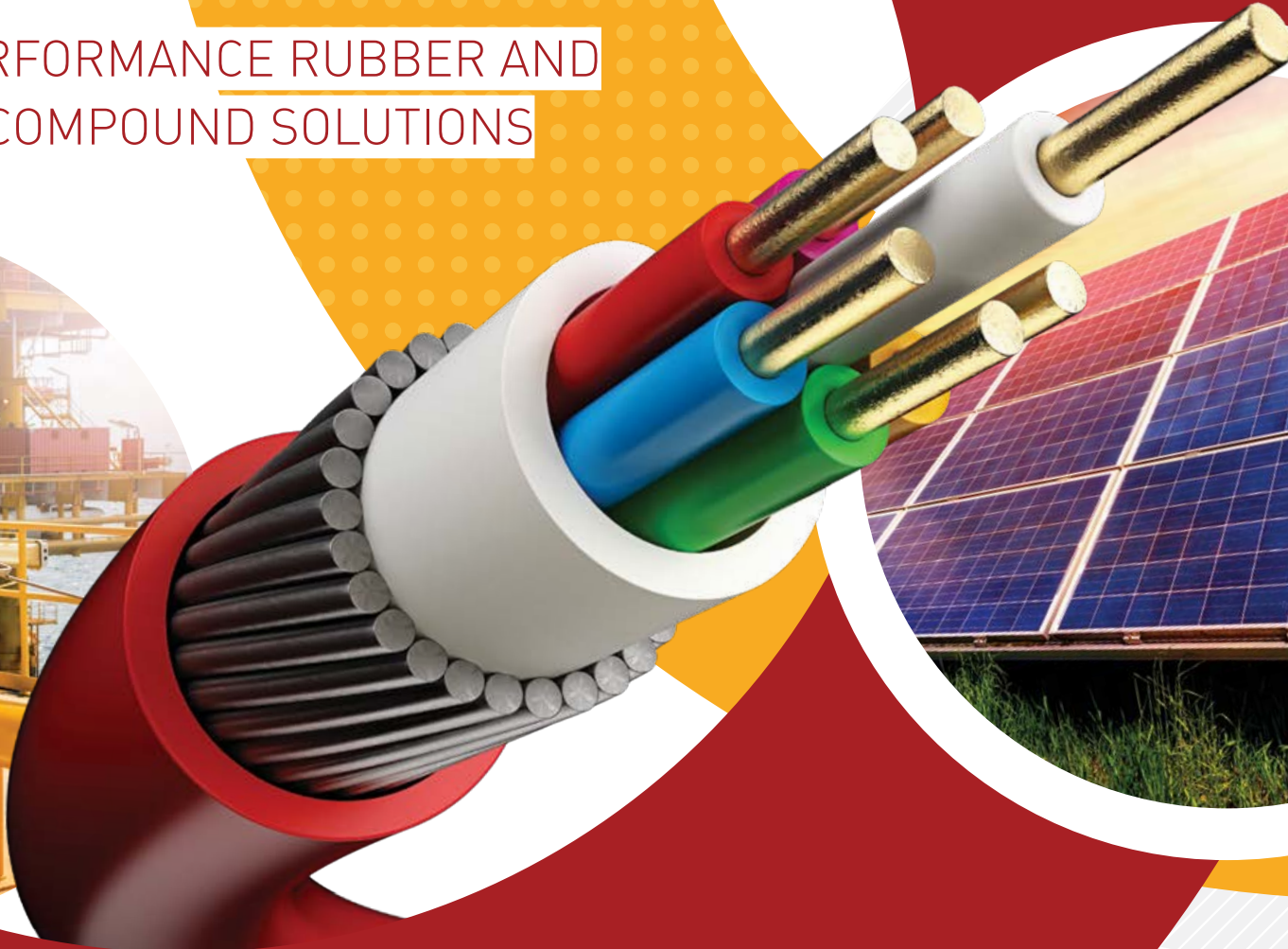


HIGH-PERFORMANCE RUBBER AND  
PLASTIC COMPOUND SOLUTIONS



electric cable  
**compounds**  
inc.



## SPECIALTY COMPOUNDING

Established in 1988, Electric Cable Compounds (ECC) is an independently owned global supplier, specializing in the design, development, and manufacture of high-performance compounds.

### TYPICAL BASE MATERIALS COMPOUNDED:

- EPR
- POE
- PE
- EVA
- PP
- High Performance Elastomers



**CAPABILITIES INCLUDE:**

- Formulation Design & Development
  - Custom Compounding
  - Toll Mixing
  - Customized Functional Masterbatches
- |                    |                  |
|--------------------|------------------|
| • Flame Retardants | • UV Stabilizers |
| • Antioxidants     | • Process Aids   |
| • Slip Agents      |                  |



**MARKETS SERVED:**

- |              |                             |
|--------------|-----------------------------|
| ○ Industrial | ○ Utility                   |
| ○ Oil & Gas  | ○ Shipboard                 |
| ○ Building   | ○ Appliance                 |
| ○ Automotive | ○ Alternative Energy        |
| ○ Mining     | ○ Medium/High Voltage Power |
| ○ Transit    |                             |





## MOISTURE CROSSLINKABLE SYSTEMS

AquaGraft® moisture curable systems allow customers to crosslink polymer systems without investing in expensive curing processes. The XL-rubber systems provide improved flexibility while maintaining high performance properties. Below is a selection of the systems offered. All are multi-component systems, which allow manufacturers to customize blend ratios to their specific needs.














 HALOGEN FREE
  FLAME RETARDANT
  ROHS COMPLIANT

## PE BASED SYSTEMS

PRODUCT NAME	MATERIAL TYPE	VOLTAGE CLASS	TEMPERATURE CLASS		FLAME CLASS	APPLICATION
AquaGraft® PEMC-1	Low Voltage Polyolefin Base	600/2000V/MV	90°C Wet/125°C Dry		N/A	Appliance, Automotive, UL 44, Control
AquaGraft® 1-6010	Low Voltage Polyolefin Insulation	600/2000V	90°C Wet/125°C Dry		Horizontal/FT-2	Appliance, Automotive, UL 44, Control
AquaGraft® 1-6008R	Low Voltage Polyolefin Insulation	600/2000V	90°C Wet/125°C Dry		VW-1/FT-4	Control, Industrial, Power, PV, UL 44
AquaGraft® 1-5150	Low Voltage FR Polyolefin Insulation	600/2000V	125°C Auto/150°C AWM		Horizontal/FT-2	Appliance, Automotive, Battery, Welding

## EPR BASED SYSTEMS

PRODUCT NAME	MATERIAL TYPE	VOLTAGE CLASS	TEMPERATURE CLASS		FLAME CLASS	APPLICATION
AquaGraft® EPMC-2	Low Voltage EPR Insulation	600/2000V/MV	90°C Wet/125°C Dry		N/A	Control, Industrial, Mining Cable, Power, PV, UL 44
AquaGraft® EPMC-4	Low Voltage EPR Insulation	600/2000V/MV	90°C Wet/125°C Dry		N/A	Control, Industrial, Mining Cable, Power, PV, UL 44
AquaGraft® EPMC-16	Low Voltage EPR Insulation	600/2000V/MV	90°C Wet/125°C Dry		N/A	Control, Industrial, Mining Cable, Power, PV, UL 44
AquaGraft® 8020	HFFR Polyolefin Insulation/Jacket	600V	125°C		Vertical/FT-4	Control, PV (TUV), Shipboard, Telecom
AquaGraft® 7020	HFFR Polyolefin Insulation/Jacket	600V	125°C		Horizontal /FT-2	Control, PV (TUV), Shipboard, Telecom
AquaGraft® 16-6010	Low Voltage Polyolefin Insulation	600/2000V	90°C Wet/125°C Dry		Horizontal/FT-2	Control, Industrial, Power, PV, UL 44
AquaGraft® 16-6008R	Low Voltage Polyolefin Insulation	600/2000V	90°C Wet/125°C Dry		VW-1/FT-4	Control, Industrial, Power, PV, UL 44
AquaGraft® 2-5150	Low Voltage FR Polyolefin Insulation	600/2000V	125°C Auto/150°C AWM		Horizontal/FT-2	Appliance, Automotive, Battery, Welding
AquaGraft® 4-5150	Low Voltage FR Polyolefin Insulation	600/2000V	125°C Auto/150°C AWM		Horizontal/FT-2	Appliance, Automotive, Battery, Welding
AquaGraft® 16-5150	Low Voltage FR Polyolefin Insulation	600/2000V	125°C Auto/150°C AWM		Horizontal /FT-2	Appliance, Automotive, Battery, Welding
AquaGraft® 61-7125	HFFR Low Voltage Polyolefin Insulation	600V	125°C Auto/150°C AWM		Horizontal/FT-2	Appliance, Automotive, Battery, Welding

## PEROXIDE CROSSLINKABLE EPR BASED COMPOUNDS

SuperOhm® peroxide crosslinkable EPR compounds are designed for high temperature stability and superior electrical performance.



HALOGEN FREE



FLAME RETARDANT



ROHS COMPLIANT

\*150kV per IEC standard

PRODUCT NAME	MATERIAL TYPE	VOLTAGE CLASS	TEMPERATURE CLASS		FLAME CLASS	APPLICATION
SuperOhm® 3455	Low Voltage FR EPR Insulation	600/2000V	125°C		FT-4	Control, Shipboard
SuperOhm® 3450	Low Voltage FR EPR Insulation	600/2000V	125°C		FT-4	Control, Nuclear, PV
SuperOhm® 2582	Low Voltage FR EPR Insulation	600V	125°C		Horizontal	Appliance
SuperOhm® 3443	Low Voltage FR EPR Insulation	600V	125°C Flex/150°C Stationary		Horizontal	Appliance
SuperOhm® 4863	Low Voltage FR EPR Insulation	600/2000V	90°C Wet/125°C Dry		VW-1/FT-4	UL 44, Control, PV
SuperOhm® 4474	Low Voltage FR EPR Insulation	600/2000V	90°C Wet/125°C Dry		VW-1/FT-4	UL 44, Control
SuperOhm® 3769	MV EPR Insulation	46kV (150kV)*	105°C		N/A	Industrial, Utility, Distribution Power
SuperOhm® 3768	MV EPR Insulation	46kV (150kV)*	105°C		N/A	Industrial, Utility, Distribution Power
SuperOhm® 3754	MV EPR Insulation	35kV (150kV)*	105°C		N/A	Industrial, Mining Cable
SuperOhm® 3753	MV EPR Insulation	35kV (150kV)*	105°C		N/A	Industrial, Mining Cable
SuperOhm® 3752	MV EPR Insulation	35kV (150kV)*	105°C		N/A	Industrial, Mining Cable
SuperOhm® 3749	MV EPR Insulation	46kV (150kV)*	105°C		N/A	Industrial, Utility, Distribution Power
SuperOhm® 3748	MV EPR Insulation	46kV (150kV)*	105°C		N/A	Industrial, Utility, Distribution Power
SuperOhm® 3728-5	MV/HV EPR Insulation	138kV (150kV)*	105°C		N/A	Industrial, Utility, Distribution Power
SuperOhm® 3712	MV EPR Insulation	35kV	105°C		N/A	Low Toxicity Transit Cable
SuperOhm® 240 NL-HE	MV EPR Insulation	25kV	105°C		N/A	Industrial, Mining Cable
SuperOhm® 240 NL	MV EPR Insulation	25kV	105°C		N/A	Industrial, Mining Cable
SuperOhm® 240 E	MV EPR Insulation	25kV	105°C		N/A	Industrial, Mining Cable
SuperOhm® 240 R	MV EPR Insulation	25kV	105°C		N/A	Industrial, Mining Cable
SuperOhm® 2502	MV/LV EPR Insulation	5kV	90°C Wet/125°C Dry		N/A	Industrial, Control, PV
SuperOhm® 2595	Down-Hole Pump Cable EPR Insulation	25kV	204°C		N/A	Down-Hole Oil Pump Power
SuperOhm® 2585	Down-Hole Pump Cable EPR Insulation	25kV	204°C		N/A	Down-Hole Oil Pump Power
SuperOhm® 2575	Down-Hole Pump Cable EPR Insulation	25kV	204°C		N/A	Down-Hole Oil Pump Power
SuperOhm® 2565	Down-Hole Pump Cable EPR Insulation	25kV	204°C		N/A	Down-Hole Oil Pump Power
SuperOhm® 2560	Down-Hole Pump Cable EPR Jacket	25kV	204°C		N/A	Down-Hole Oil Pump Power

## CROSSLINKABLE POLYOLEFIN BASED COMPOUNDS

Excelene grades are crosslinkable elastomeric polyolefin compounds designed for high temperature applications requiring a balance of mechanical properties, electrical properties, thermal stability, and performance.



HALOGEN FREE



FLAME RETARDANT



ROHS COMPLIANT

\*Irradiation crosslinkable. All others are peroxide cure.

PRODUCT NAME	MATERIAL TYPE	VOLTAGE CLASS	TEMPERATURE CLASS		FLAME CLASS	APPLICATION
Excelene 1000	MV/HV Filled XLPE Insulation	138kV	90°C		N/A	Industrial, Utility, Distribution Power
Excelene 5002	Battery Cable EPR/Polyolefin Insulation	600V	125°C		ISO 6722 Flame	Automotive
Excelene 5000	Battery Cable EPR/Polyolefin Insulation	600V	125°C		ISO 6722 Flame	Automotive
Excelene 3152	Low Voltage FR Polyolefin Insulation	600V	150°C		Horizontal	Appliance
Excelene 4980*	Low Voltage VW-1 Shipboard Insulation	600/2000V	90°C Wet/125°C Dry		VW-1	Control, Industrial, Power, Shipboard, UL 44
Excelene 3125	Low Voltage FR Polyolefin Insulation	600V	125°C		VW-1/FT-4	Appliance
Excelene 4963	Low Voltage FR Polyolefin Insulation	600V	125°C		VW-1/FT-4	Appliance
Excelene 3151	Low Voltage FR Polyolefin Insulation	600V	150°C		Vertical/FT-2	Appliance
Excelene 3150	Low Voltage FR Polyolefin Insulation	600V	150°C		VW-1/FT-4	Appliance

## LOW SMOKE, HALOGEN FREE, FLAME RETARDANT JACKET

ECC's CableArmor® jacketing compound is recognized for its balanced properties, including excellent flame retardancy, heat and deformation resistance, environmental and chemical resistant properties, and superior mechanical properties.

PRODUCT NAME	MATERIAL TYPE	VOLTAGE CLASS	TEMPERATURE CLASS		FLAME CLASS	APPLICATION
CableArmor® 1750	Thermoplastic HFFR Jacketing Compound	N/A	105°C		FT-4	Industrial, Power, Telecom, Building

## BEDDING/FILLER COMPOUNDS

CableFill® grades are non-halogenated, flame retardant cable filler compounds. These products are designed to help maintain cable shape, fill gaps/voids, prevent deformation, reduce water ingress, and provide additional flame-retardant benefits to the overall cable construction.

PRODUCT NAME	MATERIAL TYPE	VOLTAGE CLASS	TEMPERATURE CLASS		FLAME CLASS	APPLICATION
CableFill® 300	FR Polyolefin Bedding/Filler Compound	N/A	Construction Dependent		N/A	Shipboard
CableFill® 200	FR Polyolefin Bedding/Filler Compound	N/A	Construction Dependent		N/A	Shipboard

## RESEARCH AND DEVELOPMENT FOCUSED

ECC's experienced chemists and technicians are constantly working to develop innovative solutions in the field of rubber and plastics technology. They not only design and develop custom compounds, but also are available to support customers with technical assistance in a variety of areas.

ECC's technical laboratory capabilities include:

### ANALYTICAL TESTING

- Infrared Spectrometer (FTIR)
- Differential Scanning Calorimeter (DSC)
- Thermo Gravimetric Analysis (TGA)
- Rheology
- Limited Oxygen Index (LOI)
- Flammability/Combustion
- Thermal Ageing
- Moisture Content
- Chemical Compatibility
- Tensile/Elongation/Modulus
- Melt Flow Index
- Specific Gravity
- Hardness

### EXTRUSION

- Tape and Profile
- Pilot Wire Line

### PILOT COMPOUNDING

- Small scale complete manufacturing lines
  - Banbury
  - Twin Screw





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