

# WIRE & CABLE SOLUTIONS

Specialty Engineered Materials

# High performance insulation, jacketing, and cross-web formulations for the wire and cable industry

## **Syncure™ XLPE Cross-linkable Polyethylene Formulations**

- Ambient curing
- Flame performance
- Resistant to heat, oil, creep, & abrasion
- Low temperature properties
- Low capital investment
- High extrusion speeds
- DBDPE-free grades available
- UL/CSA bulletins

## **Maxxam™ FR Flame Retardant Polyolefin Formulations**

- FEP alternative
- Fire performance
- UL 444 & plenum yellow card compliance
- Low dielectric
- High extrusion speeds
- Thin wall extrudability

## **Maxxam™ SY Foamable Flame Retardant Formulations**

- Low dielectric
- Uniform cell structure
- Crush & heat resistance
- Ease of chemical foaming

## **ECCOH™ Low Smoke and Fume Non-Halogen Formulations**

- Improved fire safety
- Low smoke, fume, non-halogen (LSFOH) formulations
- Chemical resistance

## **ECCOH™ XL Cross-Linkable Solutions**

- Non-halogen, low smoke, toxicity, & corrosiveness
- Excellent mechanical & electrical properties
- Easily processed
- Operating temperature of 90°C
- Moisture cure technology

## **Synprene™ Flame Retardant Thermoplastic Elastomers**

- Flexibility
- Flame performance
- Low temperature brittleness (LTB) resistance
- Chemical resistance
- Easily colored

## **FireCon™ CPE Insulation Jacketing Formulations**

- Resistance to harsh environments
- Low temperature performance
- Flame performance
- High extrusion speeds
- Sunlight resistance



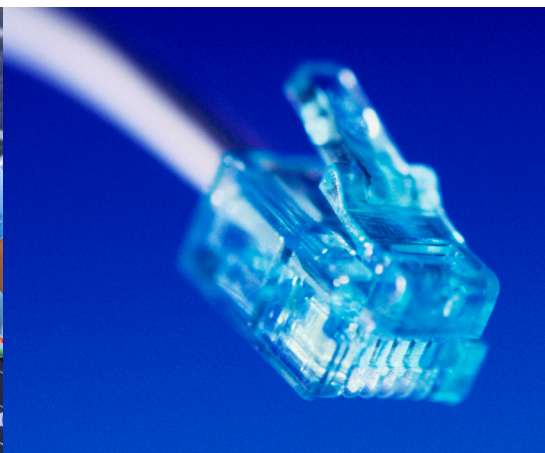


## INSULATION FOR POWER CABLE SYSTEMS

### Low Voltage Power Cables

- Flame performance
- Resistance to heat, oil, creep, & abrasion
- Low temperature performance
- Low capital investment
- High extrusion speeds

	FEATURES	SPECIFICATION
ECCOH™ XL 8148	Non-halogen, low smoke, toxicity, & corrosiveness	EN50618
Syncure™ S100FH	Horizontal flame	UL 44
Syncure™ S100FH-XUV	Horizontal flame, UV resistant	UL 44
Syncure™ S100FH-UV	Horizontal flame, FV-1 flame, UV resistant	UL 44, UL 4703
Syncure™ S100FV	VW-1 flame	UL 44
Syncure™ S100FV-UV	VW1, UV resistant	UL 44
Syncure™ S112NA	Non-flame retardant	CSA 22.2
Syncure™ S120NA	Non-flame retardant	NSF 61
Syncure™ S200FH	Horizontal flame, DBDPE-free	UL 44
Syncure™ S200FV	VW-1, DBDPE-free	UL 44





## INSULATION & CROSS-WEBS FOR DATA CABLE SYSTEMS

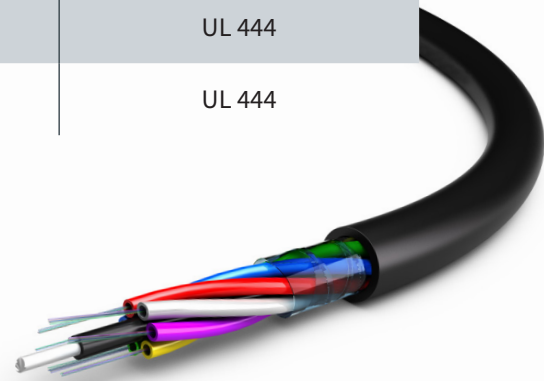
### Category Cables

- FEP alternative
- Flame performance
- Low dielectric constant
- High extrusion speeds & thin wall capability
- Chemical resistance
- Low temperature performance
- Flexibility

	FEATURES	SPECIFICATION
Maxxam™ FR 0521-48 R1	Low smoke & fume, non-halogen	UL 444
Maxxam™ FR 0587-21 R3	Halogenated to plenum performance	UL 444

### Optical Fiber Cables

- Resistance to harsh environments, chemicals, & sunlight
- Low temperature brittleness (LTB) resistance
- Low smoke & toxicity
- Flexibility
- High extrusion speeds



	FEATURES	SPECIFICATION
ECCOH™ 6649 UV Low DD	Low smoke & fume, non-halogen	Meets customer-specific flame requirements

### Coaxial Cables

- Flexibility
- High extrusion speeds
- Low dielectric constant
- Uniform cell structure
- Crush & heat resistance



	FEATURES	SPECIFICATION
Maxxam™ SY 89-22-7	Foamable	Meets customer-specific flame requirements

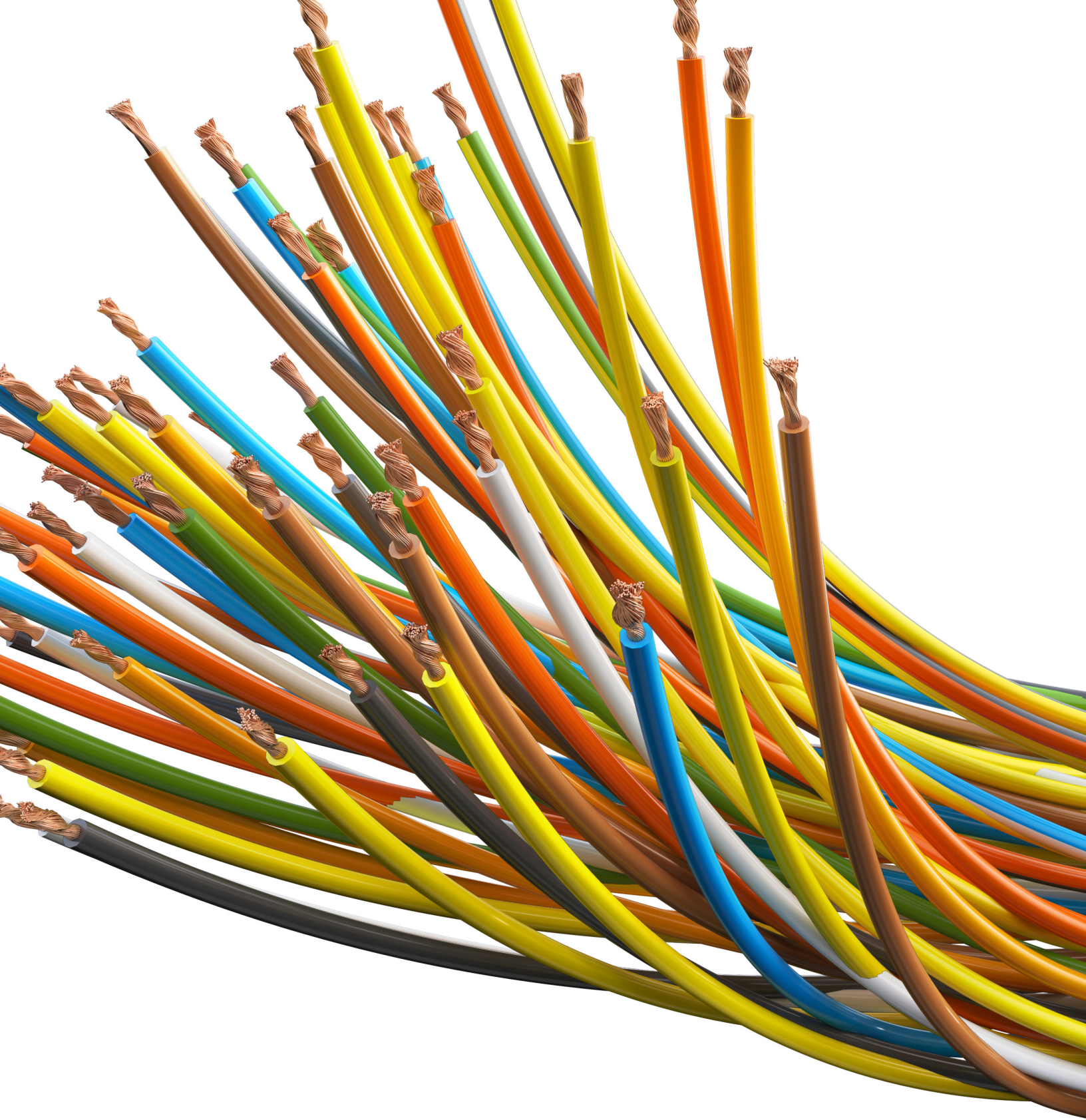
## JACKETING FOR POWER & DATA CABLE SYSTEMS

### Low & Medium Voltage Jacketing

- Resistance to harsh environments, chemicals, & UV degradation
- Low temperature brittleness (LTB) resistance
- Low smoke & toxicity
- Flexibility
- High extrusion speeds
- Easily colored

	FEATURES	SUBMARKETS & USES
FireCon™ CPE 30-33 RoHS Black	Flame retardant, flexible	Building & construction, industrial, nuclear
FireCon™ CPE 37-36 RoHS Black	Flame retardant, flexible	Building & construction, industrial, nuclear
FireCon™ CPE 30-20 RoHS Natural	Flame retardant, flexible	Building & construction, industrial, nuclear
ECCOH™ 5549 UV	Low smoke & fume, non-halogen, flame retardant	Building & construction, industrial
ECCOH™ 6649 UV Low DD	Low smoke & fume, non-halogen, flame retardant	Optical fiber, ducts
ECCOH™ 5981 UV	Low smoke & fume, non-halogen, flame retardant	Industrial, Teck 90 wire
Synprene™ RT5180	Flame retardant, LTB resistance	Building & construction, industrial
Synprene™ RT5180UV	Flame retardant, LTB resistance	Building & construction, industrial
Synprene™ RT3870M	Flame retardant, LTB resistance	Building & construction, industrial





**1.844.4AVIENT**  
**[www.avient.com](http://www.avient.com)**



Copyright © 2023, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.