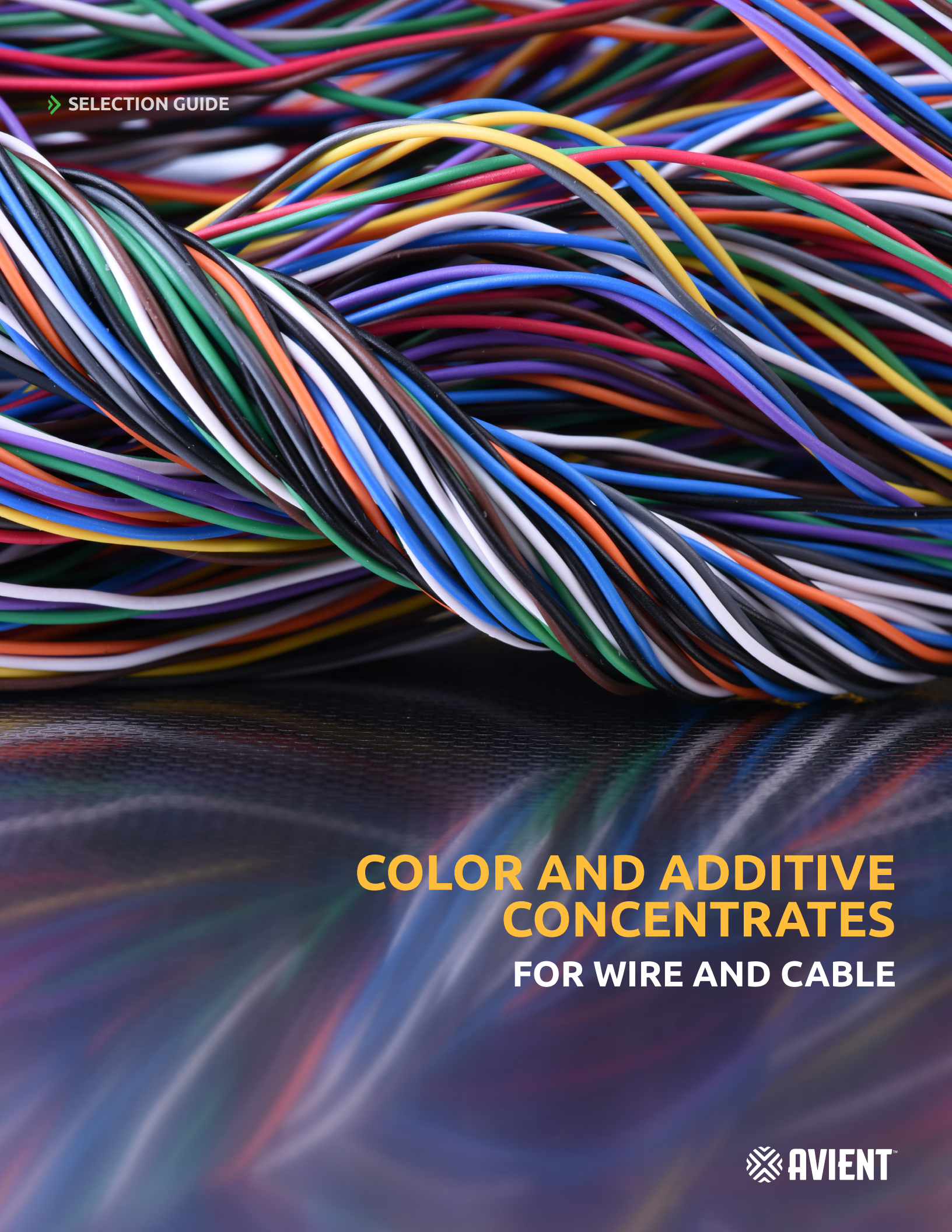




» SELECTION GUIDE

COLOR AND ADDITIVE CONCENTRATES FOR WIRE AND CABLE



As a leading supplier to the wire and cable industry, we offer a broad portfolio that includes colorants and additives for various standards, applications, and polymer systems. A wide range of stock colors is readily available while an expansive selection of additives serves to enhance product performance. Custom formulations to meet specific requirements can be developed on request.

ONCOLOR™ COLOR CONCENTRATES

- Complete range of in-stock color solutions designed specifically for telecommunications, energy, and automotive applications
 - Complete Munsell color range for telecommunications applications
 - Complete NEMA color range for electrical applications
 - J1128 SAE specifications for automotive applications
 - UL 2885 file E482856 for halogen-free formulations
- Custom color solutions for your most demanding low smoke, non-halogenated, UV, temperature, aging, and shrinkage requirements
- Weatherable pigments providing color fade resistance for demanding outdoor applications
- Optimized formulations for cross-linked polyethylene wire and cable constructions

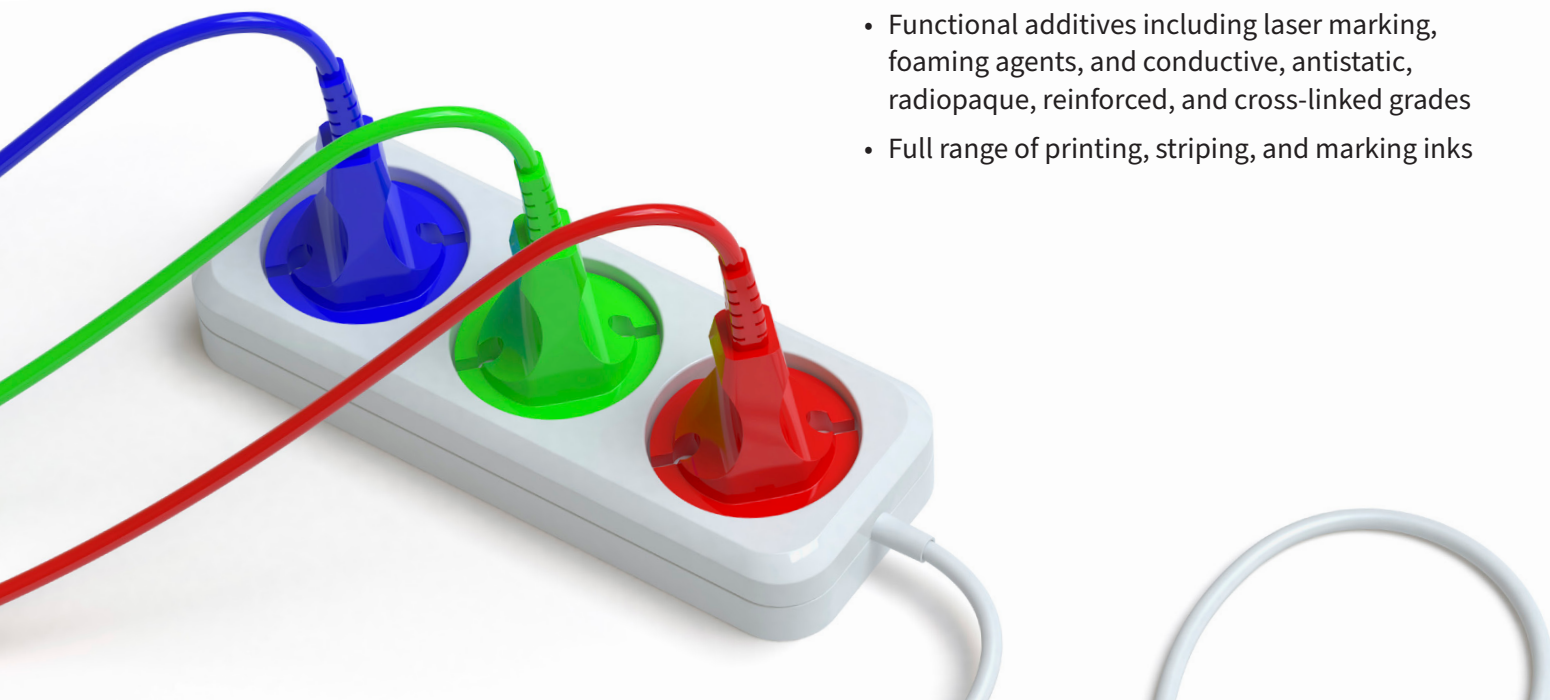
CESA™ PERFORMANCE ADDITIVE CONCENTRATES

Custom designed additive solutions for your specific applications, providing added value through ease of processing, product performance, and operational cost savings.

- **Laser marking** - improve marking reliability and durability in all types of cable jacketing and insulating materials
- **Antimicrobial** - help protect cables from harmful mold and bacteria growth
- **Nucleating agents** - maintain critical dimensions and manage shrink characteristics
- **Chemical foaming agents** - take out weight and reduce resin costs
- **UV stabilizers** - protect resin material and extend product life
- **Antioxidants** - maintain physical properties
- **Processing aids** - minimize die drool associated with some materials

COLORANT CHROMATICS™ HIGH-TEMPERATURE POLYMER SOLUTIONS

- Fluoropolymer and high-temperature thermoplastics-based colorant and additive concentrates and compounds
- Dispersed pigments for coloring PTFE
- Functional additives including laser marking, foaming agents, and conductive, antistatic, radiopaque, reinforced, and cross-linked grades
- Full range of printing, striping, and marking inks





ONCOLOR™ SOLUTIONS FOR TELECOMMUNICATIONS

- PVC colorants designed for telecommunications and fiber optic applications
- PE colorants that are excellent for foam skin and solid insulation applications
- EVA colorants designed for cross-linked materials and resin applications including XLPE, XLPO, PVC, PE, and more

PE	PRODUCT CODE	LET DOWN RATIO	COLOR (Munsell)
	CC00000001	1.00%	Black
	CC00012837	1.00%	White
	CC10225296	1.00%	Red
	CC10225298	1.00%	Gray
	CC10225300	1.00%	Green
	CC10225295	1.00%	Blue
	CC10225297	1.00%	Orange
	CC10225299	1.00%	Yellow
	CC10225301	1.00%	Brown
	CC10225603	1.00%	Purple
	CC10225293	1.00%	Aqua
	CC10225294	1.00%	Pink

PVC	PRODUCT CODE	LET DOWN RATIO	COLOR (Munsell)
	CC10225921	1.00%	Black
	CC00012573	1.00%	White
	CC10222359	1.00%	Red
	CC10223395	1.00%	Gray
	CC10222361	1.00%	Green
	CC00012376	1.00%	Blue
	CC10222363	1.00%	Orange
	CC10222360	1.00%	Yellow
	CC10223394	1.00%	Brown
	CC00012516	1.00%	Purple
	CC10062368	1.00%	Aqua
	CC10223396	1.00%	Pink



PBT	PRODUCT CODE	LET DOWN RATIO	COLOR (Munsell)
	CC10190635	3.00%	Black
	CC10190642	3.00%	White
	CC10190641	3.00%	Red
	CC10190637	3.00%	Gray
	CC10190638	3.00%	Green
	CC10185195	3.00%	Blue
	CC10185197	3.00%	Orange
	CC10190643	3.00%	Yellow
	CC10190636	3.00%	Brown
	CC10190640	3.00%	Purple
	CC10190634	3.00%	Aqua
	CC10190639	3.00%	Pink

UL 2885	PRODUCT CODE	LET DOWN RATIO	COLOR (Munsell)
	CC10246438WE	2.00%	Aqua
	CC10245005WE	2.00%	Black
	CC10246090WE	2.00%	Blue
	CC10264438DR	2.00%	Brown
	CC10245008WE	2.00%	Gray
	CC10246092WE	2.00%	Green
	CC10264439DR	3.00%	Orange
	CC10261866DR	2.00%	Pink
	CC10261867DR	2.00%	Purple
	CC10264436DR	2.00%	Red
	CC10245006WE	2.00%	White
	CC10246093WE	2.00%	Yellow

EVA	PRODUCT CODE	LET DOWN RATIO	COLOR (Munsell)
	CC00012853	1.00%	Black
	CC00012946	1.00%	White
	CC10221766	1.00%	Red
	CC10221760	1.00%	Gray
	CC10221765	1.00%	Dk Green
	CC10221764	1.00%	Lt Green
	CC10221757	1.00%	Dk Blue
	CC10221761	1.00%	Lt Blue
	CC10221767	1.00%	Orange
	CC10221763	1.00%	Yellow
	CC10221758	1.00%	Brown
	CC10221762	1.00%	Purple
	CC10224626	1.00%	Tan
	CC10221759	1.00%	Pink

PRODUCT CODE*	LET DOWN RATIO (HB Rated)	LET DOWN RATIO (FV-1 Rated)	LET DOWN RATIO (VW-1 Rated)	COLOR (Munsell)
CC10199188OC	1.00%	2.00%	2.00%	Black
CC1041114625	1.00%	2.00%	2.00%	Blue
CC1041495625	1.00%	2.00%	2.00%	Brown
CC1041347125	1.00%	2.00%	2.00%	Gray
CC1041114825	1.00%	1.00%	1.00%	Green
CC1041507925	1.00%	2.00%	2.00%	Orange
CC10371409WE	1.00%	2.00%	2.00%	Pink
CC1041347225	1.00%	2.00%	2.00%	Purple
CC1040965625	1.00%	2.00%	3.00%	Red
CC10269093WE	1.00%	1.00%	2.00%	White
CC1041270325	1.00%	2.00%	2.00%	Yellow

* Standard weatherable grades listed—also available in more robust UV performance tested formulations.

ONCOLOR™ SOLUTIONS FOR ENERGY CABLE APPLICATIONS

- Recommended use rate may vary depending on specific application, process, equipment, and resin grade

PVC	PRODUCT CODE	LET DOWN RATIO	COLOR (NEMA)
	CC00012342	1.00%	Black
	CC00012575	1.00%	White
	CC00012547	1.00%	Red
	CC10018221	1.00%	Gray
	CC00012444	1.00%	Dk Green
	CC10018222	1.00%	Lt Green
	CC00012408	1.00%	Dk Blue
	CC00012407	1.00%	Lt Blue
	CC10013140	1.00%	Orange
	CC00036502	1.00%	Yellow
	CC00012363	1.00%	Dk Brown
	CC00012373	1.00%	Lt Brown
	CC00012526	1.00%	Purple
	CC10018225	1.00%	Tan

NYLON	PRODUCT CODE	LET DOWN RATIO	COLOR (NEMA)
	AB13820380	3.00%	Yellow
	AB24820333	3.00%	Orange
	AB32820571	3.00%	Pink
	AB33820570	3.00%	Red
	AB44820167	3.00%	Purple
	AB54820507	3.00%	Dark Blue
	AB63820502	3.00%	Dark Green
	AB72820811	3.00%	Gray
	AB84820533	3.00%	Brown
	AB94820333	3.00%	Black
	CC00016954	1.00%	White

ONCOLOR™ SOLUTIONS FOR AUTOMOTIVE APPLICATIONS

- EVA colorants designed for use with cross-linked materials like XLPE
- Recommended use rate is 1.00% and may vary depending on specific application, process, equipment, and resin grade

EVA, J1128	PRODUCT CODE	LET DOWN RATIO	COLOR
	CC00012853	1.00%	Black
	CC00012946	1.00%	White
	CC10221766	1.00%	Red
	CC10221760	1.00%	Gray
	CC10221765	1.00%	Dk Green
	CC10221764	1.00%	Lt Green
	CC10221757	1.00%	Dk Blue
	CC10221761	1.00%	Lt Blue
	CC10221767	1.00%	Orange
	CC10221763	1.00%	Yellow
	CC10221758	1.00%	Brown
	CC10221762	1.00%	Purple
	CC10224626	1.00%	Tan
	CC10221759	1.00%	Pink

PVC, J1128	PRODUCT CODE	LET DOWN RATIO	COLOR
	CC00012342	1.00%	Black
	CC00012575	1.00%	White
	CC00012535	1.00%	Red
	CC00012461	1.00%	Gray
	CC00012425	1.00%	Dk Green
	CC00012426	1.00%	Lt Green
	CC00012379	1.00%	Dk Blue
	CC00012378	1.00%	Lt Blue
	CC00012490	1.00%	Orange
	CC00012585	1.00%	Yellow
	CC00012363	1.00%	Brown
	CC00012525	1.00%	Purple
	CC00012561	1.00%	Tan
	CC00012507	1.00%	Pink



A RANGE OF WORLD-CLASS SERVICES

With manufacturing facilities and innovation centers across the globe, we work with you to understand your goals and provide the expertise you need for your wire and cable applications.

LOOK TO US FOR SUPPORT WITH:

Testing and Validation

Fully accredited, in-house testing capabilities to generate data for insight into material behavior, environmental effects, and more

Regulatory Coordination

Dedicated product stewardship team assisting with new product approvals to reduce regulatory overhead and minimize risk

Application Development Technical Support

Technical experts specifically trained to work directly with your team in solving definitive application challenges

Field Technical Service

Onsite support for tool design, startup, and production optimization to gain manufacturing efficiencies and resolve technical issues

Color and Additive Design Services

Trend and color insights, and product development assistance to optimize design and gain speed to market

Sustainability

Innovative materials and solutions to help you meet your sustainability goals

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