

ONCOLOR™ COLORANTS FOR WIRE & CABLE

OnColor™ Colorants for wire & cable offer a comprehensive range of color series, covering the diverse specifications demanded by the cable industry. These colorants are designed for a wide variety of applications, in line with RAL, IEC 304, BS 6746C and AFNOR (Association Française de Normalisation) color requirements. The pigments and the overall formulations have been selected for optimum color incorporation and cable performance.

In addition to color series, custom solutions can be developed to fulfil specific application requirements. These include enhanced light resistance, high temperature resistance, ageing test resistance, low shrinkage, and many other performance criteria that can be required in the final application.

OnColor Colorants for wire & cable are heavy metal free and compliant with the RoHS Directive 2015/863/CE.

APPLICATION	DESCRIPTION
PVC General Purpose Cable	Optimal incorporation in PVC formulations Non ortho-phthalate range available
PVC Automotive Cable	 Optimized colors for T2 and T3 automotive applications Non ortho-phthalate range available
Unfilled PE, XLPE, PP Cable	 Specific color range for unfilled polyolefins Compatibility with cross-linkable systems Special range to minimize shrinkage or for thin skin applications
Filled Polyolefins, Non-Halogenated Flame Retardant PE Cable	 Full range of colors, halogen-free or low amounts of halogens Designed for incorporation into various non-halogenated flame retardant formulations
PE Visico/Ambicat [™] Crosslinked Polyethylene¹	 Full range of colors for PE Visico/Ambicat™ cross-linked polyethylene Specifically designed and tested to ensure compatibility with this cross-linking method
Thermoset Rubber Cable	 Colors designed for use with thermoset rubber Fully compatible with vulcanization process
Unfilled TPU Cable	 Color range for unfilled polyester or polyether TPU Provides good opacity at low addition levels
Flame Retardant TPU Cable	Color range for filled/non-halogenated flame retardant TPUProvides good color strength
TPE Cable	 Color range designed to enhance performance of various TPE brands High temperature range available
PA Cable	Different color ranges available depending on the polyamide type and the application
PBT Cable	 PBT color range mostly used in optical fiber, loose tube or tight buffered cables Selection of pigments to prevent migration of color in gel-filled materials

ADDITIVE SOLUTIONS FOR WIRE & CABLE

Color and Additive Combinations

Smartbatch[™] Combination

Colorants and Additives

Avient offers a wide range of additives to meet wire and cable industry requirements. They are designed to provide manufacturing efficiency, enhance performance by providing additional cable features, and meet end user specifications.



PRODUCT RANGE	ADDITIVE BENEFITS & PERFORMANCE	
Thermal Stabilizers		
Cesa [™] Nox [™] Antioxidant Additives	Improves thermal resistance or reduce polymer degradation during processing. Helps pass cable standards relating to thermal ageing tests. Extends cable lifetime. Improves flexibility: freedom to select the main polymer.	
UV Light Stabilizers		
Cesa [™] Light Additives	Long-term protection against weather degradation. Extends cable lifetime. Improves flexibility: freedom to select the main polymers for the cable jacket.	
Blowing Agents		
Hydrocerol™ Chemical Foaming Agents	Blowing agents to improve electrical performance, suitable for chemical or physical processing. Helps reduce the quantity of raw material used, and the weight of the cable. Full range of ADCA or ADCA free solutions.	
Brominated Flame Retardants		
Cesa [™] Flame Retardant Additives	Provide efficient flame retardancy across a variety of resins. Compatible with Ambicat™ cross-linking technology. Allows cable to pass flame retardant tests. Solutions available for polyolefins and TPU.	
Additives for Laser Marking		
Cesa [™] Laser Additives	Enhances marking contrast when laser technology is used. Highly durable marking with good resistance to friction and scratches. Eliminates use of consumables, such as inks and solvents.	
Processing Aids		
Cesa [™] Process Additives	Improves manufacturing efficiency: increase output, reduce die build-up.	
Crosslinking Agents		
Cesa [™] Dry Silane Additives for Wire & Cable	Silane cross-linking agents in solid form for use with extrusion equipment, for easy handling. Helps to minimize manufacturing investment while optimizing cross-linking benefits e.g., better thermal resistance. Suitable for polyethylene and flame retardant polyolefin formulations.	
Repellant Additives		
Cesa [™] Aversive Technology	Long-term protection against rats and termites. Extremely low-concern and long-lasting active substances. Compliant with the EU Biocidal Product Regulation (BPR).	

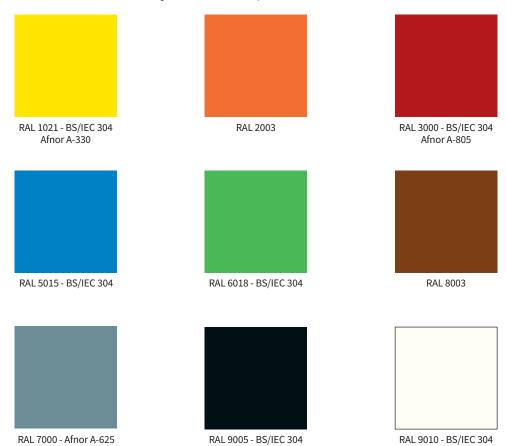
Combines custom or standard colors with a performance-enhancing or functional

additive in one pellet. Improves traceability as the color indicates the additive has also

been added. Reduces material inventory and allows the use of general purpose resins.



The following colors are available in all ranges with short-term delivery. Main RAL colors correspond to BS and/or Afnor colors.

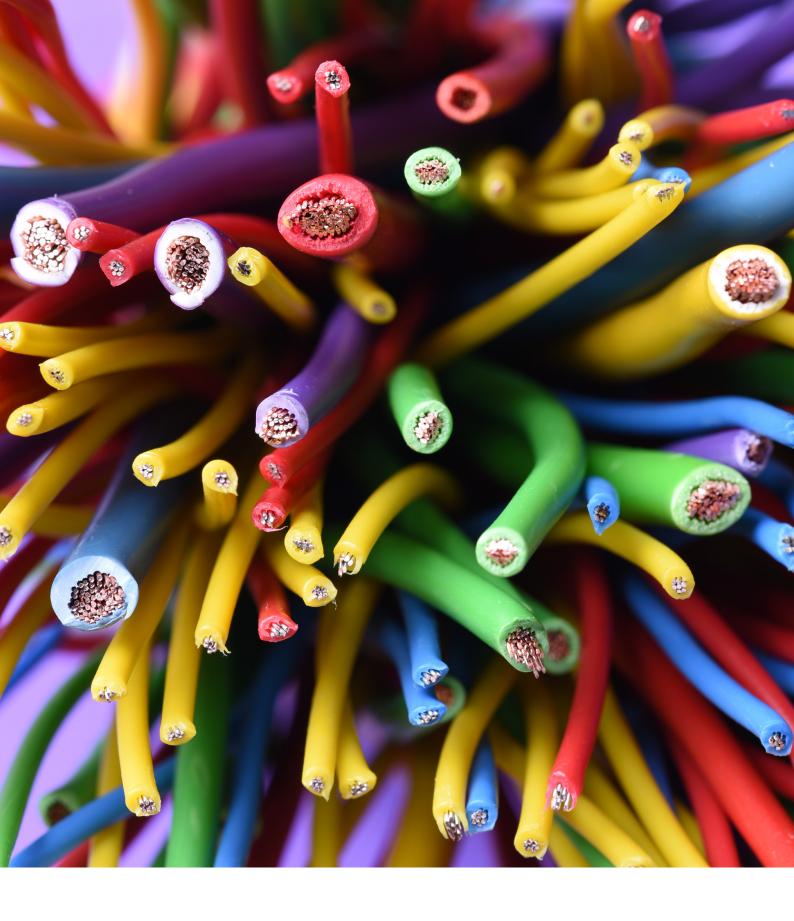


For certain ranges, the following colors are also available for short-term delivery.

Afnor A-603



Afnor A-665



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