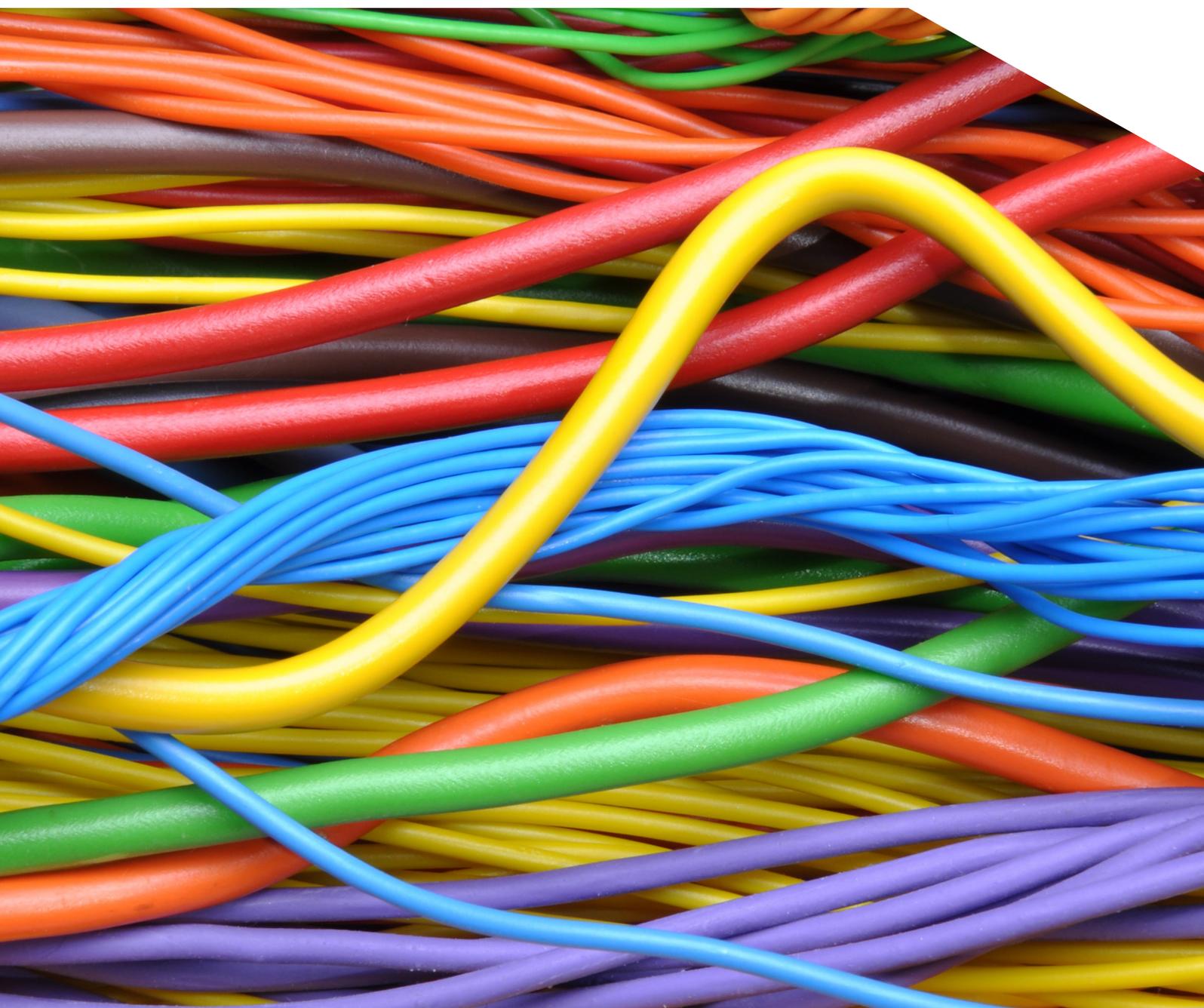


Wire & cable

Advanced polyolefin solutions and masterbatches



Everyday energy

Powering wire & cable applications with advanced polyolefin solutions and color masterbatches.

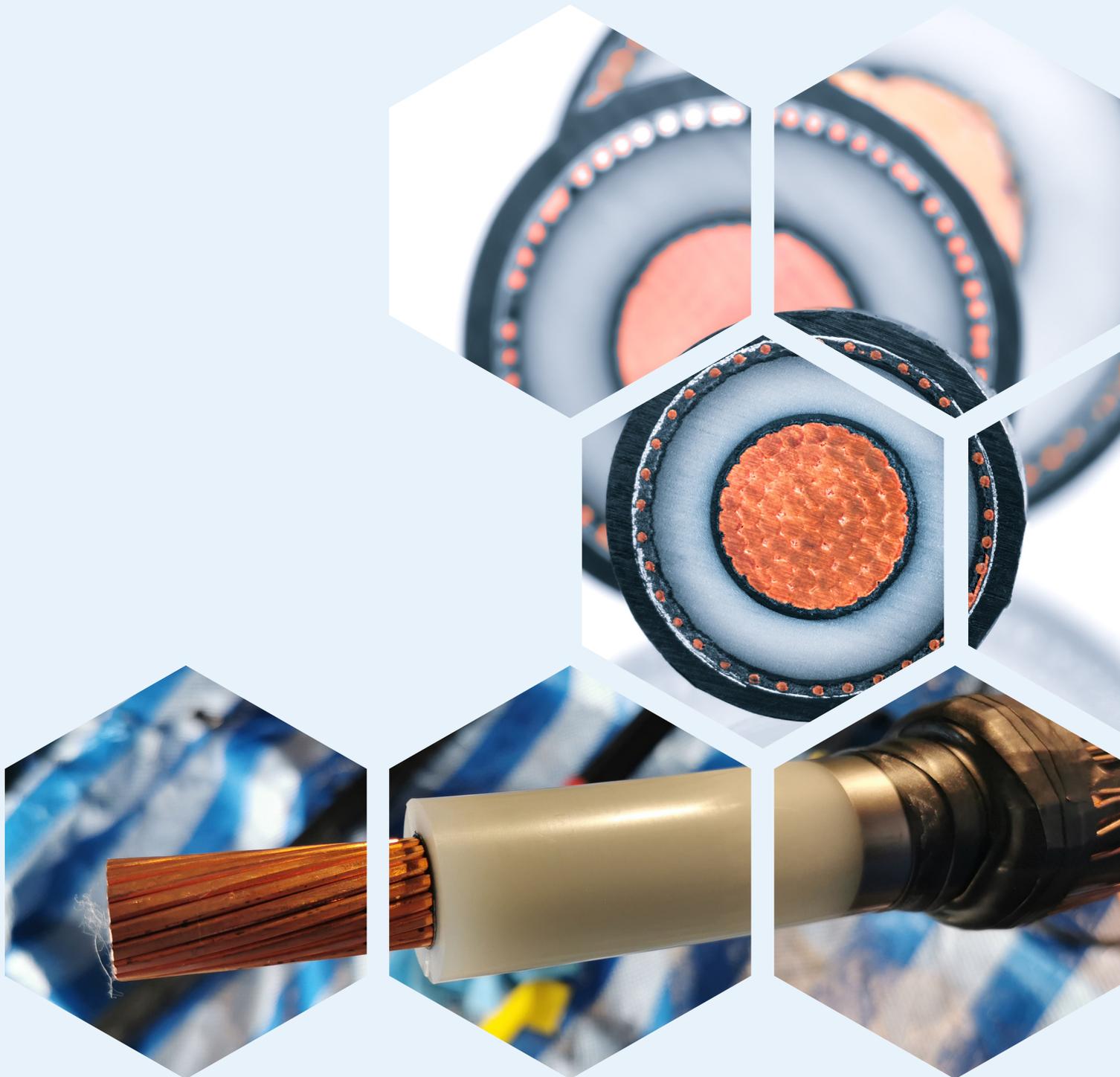
At LyondellBasell (LYB), we understand that the Wire & Cable market demands cutting-edge materials. That's why we offer a broad portfolio of high-performance polyolefin resins and compounds—the backbone of durable wire and cable solutions. Engineered for insulation and jacketing, our materials meet the rigorous requirements of power, data, automotive, and industrial applications, delivering reliability and performance across industries.

Our products continue to demonstrate exceptional performance and reliability, proven by the fact that customers have trusted and purchased our resins for more than 50 years. This enduring demand reflects the consistent quality, durability, and value our materials deliver across decades of technological and market changes.

In addition to our resins and (flame-retardant) compounds, LYB offers tailor-made color and additive masterbatches. These solutions specifically target wire and cable technical needs and meet industry standards, providing customers with customized options to achieve desired properties and aesthetics.

Power cable solutions

In power transmission and distribution, reliable cable performance is essential. LYB provides a broad range of solutions that meet industry standards, helping ensure the durability and safety of power cables. Our polyolefin resins for insulation and jacketing are crucial for protecting the conductive core and safe, reliable performance.



Solutions for the energy & power market – high and medium voltage cables

Market	Applications	Product type	Grade name	MFR*	ρ	Description	
High voltage power cables	Insulation	TPO	<i>Hifax</i>	0.8	0.880	Building block approach	
		PP	<i>Moplen</i>	1.8	0.900	Building block approach	
	Jacketing	HDPE	Alathon 9305TC (natural)	0.75	0.949	Bimodal HDPE, Broad molecular weigh distribution	
			Petrothene LR590005 (natural)	0.80	0.948	Low shrinkback after extrusion, Metal deactivator stabilized	
			Petrothene KR52828 (black)	0.30	0.956	Bimodal HDPE, Broad molecular weight, UV resistance	
			Petrothene LR52800E (natural)	0.3	0.950	Bimodal HDPE, Broad molecular weight	
			Petrothene KR52828E (black)	0.30	0.956	Bimodal HDPE, Broad molecular weight, UV resistance	
			Petrothene GA808091 (natural)	0.75	0.920	Broad molecular weight distribution	
	LLDPE	Petrothene PR92735 (black)	0.72	0.930	UV resistance		
		Semi-Conductive Compounds Inner & Outer	Partnership with Premix	<i>PRE-ELEC®</i> Compounds	--	--	Compatible with HPTE insulation, HPTE-TPO
Medium voltage power cables	Insulation: Solid & Foamed, Direct Peroxide Injection	XLPE Peroxide / LDPE	Petrothene NA951080	2.2	0.920	DPI Insulation Process	
			<i>Lupolen GX 4087</i>	1.5	0.919	DPI Insulation Process	
	Insulation	HPTE – TPO	<i>Hifax CA 7910A</i>	0.9	0.880	Ready to use solution	
		HPTE – TPO	<i>Hifax CA 7441A</i>	0.8	0.880	Building block	
		PP	<i>Moplen RP210G (natural)</i>	1.8	0.900	Building block approach combination of <i>Hifax</i> + <i>Moplen</i>	
		EVA / EBA / Co-Polymers	<i>Lucalen A2700H (EBA, natural)</i>	1.4	0.922	EBA natural flexible base resin (15% nBA)	
			Ultrathene UE624000 (natural)	2.1	18%	EVA natural flexible base resin	
	Semi-Conductive Compounds Inner & Outer	EVA / EBA / Co-Polymers	Petrothene YR92126 (EVA, black)	7.7	1.13	EVA natural flexible base resin	
			<i>Lucalen A2700M (EBA, natural)</i>	7.2	0.924	EBA natural flexible base resin (17% nBA)	
			<i>Lucalen A2700P (EBA, natural)</i>	15	0.924	EBA natural flexible base resin (17% nBA)	
			Semi-Conductive Compounds Inner & Outer	Partnership with Premix	<i>PRE-ELEC®</i> Compounds	--	--
	Jacketing	HDPE	Alathon 9305TC (natural)	0.75	0.949	Bimodal HDPE, Broad molecular weight distribuiton	
			Petrothene LR590005 (natural)	0.80	0.948	Low shrinkback after extrusion, Metal deactivator stabilized	
			Petrothene LR52800E (natural)	0.3	0.950	Bimodal HDPE	
			Petrothene KR52828E (black)	0.3	0.956	Bimodal HDPE, Broad molecular weight, UV resistance	
			MDPE	<i>Luflexen hyPE 35P FA (natural)</i>	0.75	0.936	Natural high ESCR product
			LLDPE	Petrothene GA808091 (natural)	0.75	0.920	Broad molecular weight distribution
		Petrothene PR92735 (black)	0.72	0.930	UV resistance		
PP		Petrothene PP1510PC (natural)	1.3	0.902	HECO, Excellent long-term aging, Metal deactivator stabilizer		

Grades highlighted in blue = Produced in North America, Grades highlighted in black = Produced in Europe

*For more information, please refer to the product TDS

Solutions for the energy & power market – low voltage cables

Market	Applications	Product type	Grade name	MFR*	ρ	Description
Low voltage power cables	Insulation	EVS Co-Polymer XLPE	<i>Aquathene AQ120000 (natural)</i>	1.5	0.9225	Moisture cure, EVS copolymer base resin
	Moisture cross-linkable		<i>Aquathene FR420000 (HFR)</i>	3.0	2.01	Moisture cure, RoHS-compliant, colorable FR-catalyst masterbatch, VW-1, UV resistant
	Halogenated		<i>Aquathene FR409800 (HFR)</i>	0.70	1.47	Moisture cure, HDPE riser, RoHS-compliant, colorable FR masterbatch for MC, XHHW-2
	Flame Retardant	Catalyst / Masterbatch	<i>Aquathene CM04482 (natural)</i>	7.0	0.926	Moisture cure, Catalyst Masterbatch
	Control Cable		<i>Aquathene CM04483 (natural)</i>	--	1.14	Moisture cure, Catalyst Masterbatch
	Insulation		<i>Aquathene PM92949C (black)</i>	--	1.14	Moisture cure, Catalyst Masterbatch, UV resistant
	Insulation / Jacketing	Sioplas XPLE LLDPE / LDPE	<i>Petrothene GA616050 (natural)</i>	6.2	0.918	Gas Phase Technology
			<i>Petrothene PM92973 (black)</i>	6.8	1.14	Gas Phase Technology, Black masterbatch formulated to be melt blended with LLDPE base resin
			<i>Lupolen 1840D</i>	0.25	0.919	High melt strength
	Insulation	Monosil XLPE / LLDPE	<i>Petrothene GA808091 (natural)</i>	0.75	0.920	Broad molecular weight distribution
			<i>Petrothene GA1820 (natural)</i>	2.0	0.918	Good strength and toughness
			<i>Petrothene GA1832 (natural)</i>	3.2	0.918	Good strength and toughness
		HPTE - TPO	<i>Hifax</i>	--	--	Under Development
	Jacketing	HDPE	<i>Petrothene LR590005 (natural)</i>	0.80	0.948	Low shrinkback after extrusion, Metal deactivator stabilized
		LLDPE	<i>Petrothene GA808091 (natural)</i>	0.75	0.920	Broad molecular weight distribution
<i>Petrothene GA564189 (natural)</i>			20	0.924	Broad molecular weight distribution	
PP		<i>Petrothene PP1510PC (natural)</i>	1.3	0.902	HECO, Excellent long-term aging, Metal deactivator stabilized	

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Telecommunications

As global demand for high-speed, high-capacity communication networks continues to grow, the materials used in telecommunications and data center infrastructure must deliver exceptional signal integrity, long-term reliability, and excellent electrical properties. Whether in coaxial or fiber optic cables, consistent performance is essential to ensure uninterrupted data transmission in both residential and commercial settings.

LYB offers a robust portfolio of materials engineered to meet these critical demands.



Solutions for telecommunications

Market	Applications	Product type	Grade name	MFR*	ρ	Description
Commu- nications General purpose	Insulation	HDPE	<i>Petrothene LR590001 (natural)</i>	0.80	0.948	Low shrinkback after extrusion, Metal deactivator stabilized
			<i>Petrothene LR590005 (natural)</i>	0.80	0.948	Low shrinkback after extrusion, Metal deactivator stabilized
		PP	<i>Pro-fax EP315J (natural)</i>	2.6	0.900	HECO, Excellent long-term aging, Metal deactivator stabilized
			<i>Petrothene PP1510PC (natural)</i>	1.3	0.902	HECO, Excellent long-term aging, Metal deactivator stabilized
Fiber optic cable	Buffer Tubes	PP	<i>Pro-fax EP632KX01 (natural)</i>	4.0	0.910	Low Shrinkage
	Jacketing	HDPE	<i>Petrothene LR590001 (natural)</i>	0.80	0.948	Low shrink back after extrusion, Metal deactivator stabilized
			<i>Petrothene LP540200 (natural)</i>	0.17	0.940	High ESCR, Blend component for improved stiffness
			<i>Petrothene KR92828 (black)</i>	0.17	0.955	High ESCR, Blend component for improved stiffness, UV resistance
			<i>Alathon L4907 (natural)</i>	0.075	0.949	Bimodal HDPE, Broad molecular weight
			<i>Petrothene GX 5125</i>	0.3	0.956	FTTH Drop Cable, Fiber Reinforced Product (FRP), Excellent Addition to standard strength member
			<i>Petrothene LR52800E (natural)</i>	0.3	0.950	Bimodal HDPE
		MDPE	<i>Petrothene KR52828E (black)</i>	0.3	0.956	Bimodal HDPE, Broad molecular weight, UV resistance
			<i>Petrothene GA837091 (natural)</i>	0.75	0.935	Broad molecular weight distribution
			<i>Petrothene HR92953 (black)</i>	0.75	0.945	MDPE black jacket used in FOC, CATV
			<i>Petrothene PM96750 (black)</i>	0.90	1.10	MDPE black jacket used in FOC where track resistant is required
	Micro-duct	HDPE	<i>Alathon L4930TC</i>	0.30	0.949	Micro-duct, Conduit, Excellent balance of stiffness, toughness, and processability
			<i>Hyperzone HY44930</i>	0.32	0.949	Micro-duct, Conduit
			<i>Hyperzone HY55430</i>	0.34	0.954	Micro-duct, Excellent ESCR
			<i>Hostalen ACP 5231D</i>	0.30	0.952	Micro-duct
	Subsea Insulation	MDPE	<i>Petrothene GA837095 (natural)</i>	0.75	0.935	Broad molecular weight distribution, enhanced stabilization
	Subsea Jacketing	HDPE	<i>Alathon 9305TC (natural)</i>	0.75	0.949	Bimodal HDPE, Broad molecular weight distribution
<i>Petrothene KR52828E (black)</i>			0.3	0.956	Bimodal HDPE, Broad molecular weight, UV resistance	
LAN cable Category cable	Insulation / Jacketing	HDPE	<i>Petrothene LR590005 (natural)</i>	0.80	0.948	Low shrinkback after extrusion, Metal deactivator stabilized
			<i>Aquathene FR409800 (HFR)</i>	0.70	1.47	Metal deactivator stabilized
		PP	<i>Petrothene FR200000 (HFR)</i>	2	1.22	PP plenum cable insulation, U.L. CMP-listed component
			<i>Petrothene FR5112</i>	0.30	1.56	VW1 Rated Low Smoke Nonhalogenated TP Jacket Compound

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Solutions for telecommunications

Market	Applications	Product type	Grade name	MFR*	ρ	Description
Coax cable	Insulation Solid Dielectric	LDPE	<i>Petrothene NA217080 (natural)</i>	5.6	0.923	Primary insulation for coaxial cable applications
			<i>Petrothene NA940000 (natural)</i>	0.25	0.918	Excellent toughness and shrink properties
			<i>Lupolen 1840D</i>	0.25	0.919	High melt strength
	Insulation Chemical Foam	HDPE	<i>Petrothene GA808093 (natural)</i>	0.75	0.920	Broad molecular weight distribution
			<i>Alathon M6080WC (natural)</i>	8.0	0.960	Solution Technology, Gas Injection Blend Component, Narrow Molecular Weight Distribution, Enhanced stiffness
	Insulation Physical Foam	HDPE	<i>Alathon M5370RF (natural)</i>	7.3	0.953	Solution Technology, Gas Injection Blend Component, Narrow Molecular Weight Distribution, Enhanced stiffness
	Radio Freq (RF)	LDPE	<i>Petrothene NA217080 (natural)</i>	5.6	0.923	Primary insulation for coaxial cable applications
	Jacketing	LLDPE	<i>Petrothene GA808091 (natural)</i>	0.75	0.920	Broad molecular weight distribution
			<i>Petrothene PR92735 (black)</i>	0.72	0.930	Broad molecular weight distribution
		MDPE	<i>Petrothene GA837091 (natural)</i>	0.75	0.935	Broad molecular weight distribution
<i>Petrothene HR92953 (black)</i>			0.75	0.945	Broad molecular weight distribution	
<i>Luflexen hyPE 35P FA</i>			0.75	0.936	Natural high ESCR product	
Sustainable design	Jacketing	rHDPE	<i>CirculenRecover HD5603 Ivory</i>	0.3	0.956	Mechanically recycled HDPE
			<i>CirculenRecover HD5603 Silver</i>	0.4	0.956	Mechanically recycled HDPE

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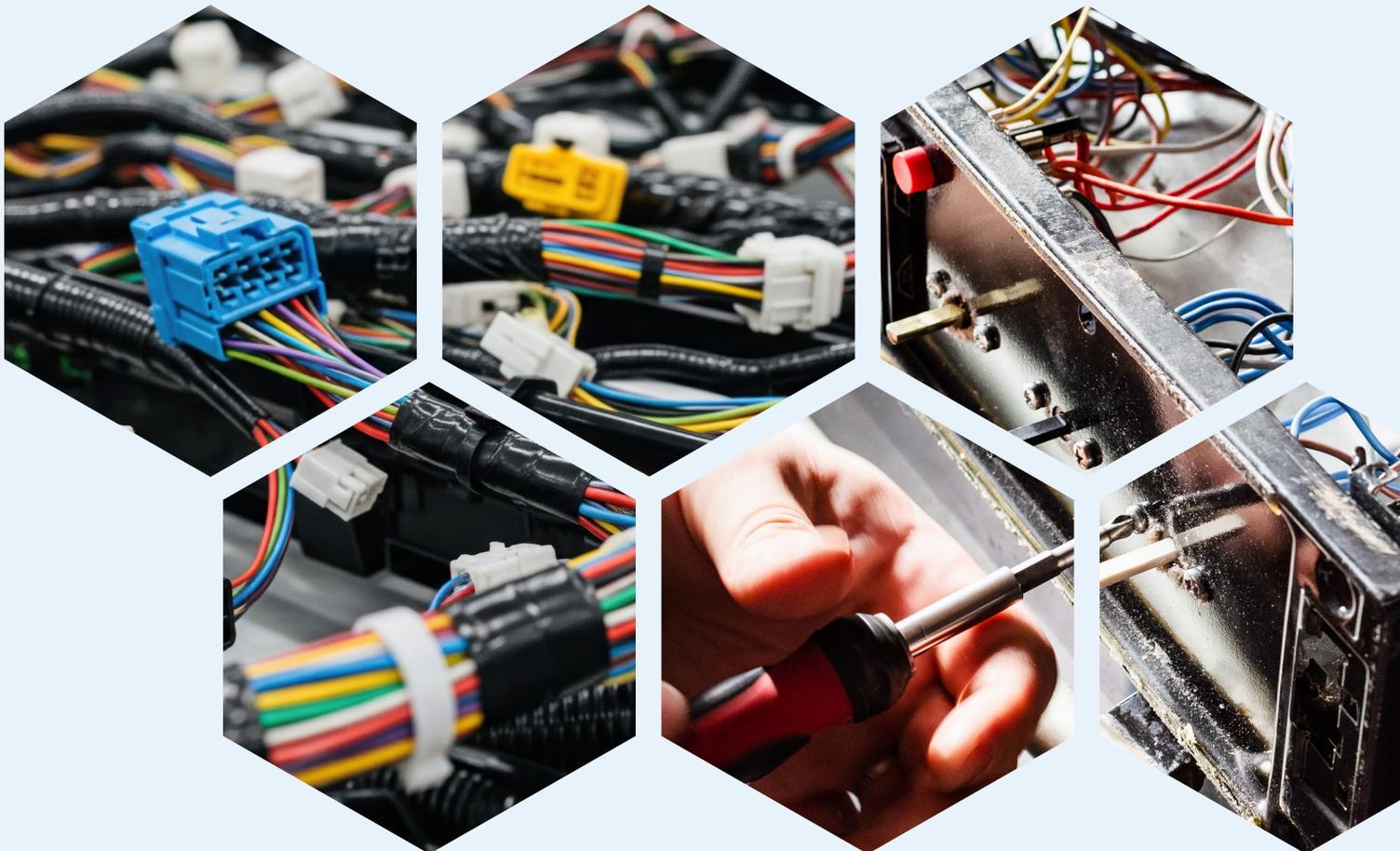
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Automotive & appliance wiring solutions

Modern vehicles demand wiring systems that can withstand extreme temperatures, mechanical stress, and chemical exposure—while maintaining flexibility and long-term reliability. At LYB, our polyolefin compounds are engineered to deliver exceptional heat resistance, durability, and flexibility in the most demanding environments. As automotive electrical systems become more complex, our materials help ensure safe and efficient electrical connections, supporting both vehicle safety, flame retardancy, and high performance.

Beyond automotive, our wire and cable solutions also power appliance applications, offering materials designed for insulation and jacketing that combine durability, flame retardancy, and design versatility.

With our color masterbatches, we help appliance manufacturers achieve both functional excellence and aesthetic appeal.



Solutions for the automotive market / appliances

Market	Applications	Product type	Grade name	MFR*	ρ	Description
Automotive	Underhood Wire	XLPE	<i>Petrothene T3XL7420</i>	2.1	1.40	CV Crosslinkable, 125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene YR19600B</i>	2.1	1.40	E-Beam Crosslinkable, 125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene YR19548</i>	2.1	1.40	E-Beam Crosslinkable, 125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene YR21501</i>	2.1	1.40	E-Beam Crosslinkable, 150°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene XL07425</i>	2.1	1.40	CV Crosslinkable, 125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene XL07417</i>	2.1	1.40	Stiff Battery Cable, 125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene XHF1500</i>	2.1	1.40	Flexible Battery Cable, 150°C Halogen Free Flame Retardant (HFFR)
Appliances	Consumer / Industrial	XLPE	<i>Petrothene XL07407</i>	2.1	1.40	125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene XL07425</i>	2.1	1.40	125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene XL07580</i>	2.1	1.40	125°C Halogen Free Flame Retardant (HFFR)
			<i>Petrothene T3XL7420</i>	2.1	1.40	125°C Halogen Free Flame Retardant (HFFR)

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Masterbatches

Our portfolio includes heavy-metal-free color masterbatches for wire and cable applications. These grades deliver vibrant, durable coloration while supporting compliance with the latest regulatory and environmental standards. Engineered for consistent processing and long-term performance, they provide reliable solutions that enhance visual differentiation.



Heavy-metal-free color masterbatches

RAL	1021	2003	3000
Color	Rapeseed yellow	Pastel Orange	Flame Red
Cable Application	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC
Heat Stability/Light Fastness/ Weather Fastness	260°C / 7-8 / 1	290°C / 7-8 / 1	300°C / 8 / 3
RAL	5015	6018	6027
Color	Sky Blue	Yellow Green	Light green
Cable Application	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC
Heat Stability/Light Fastness/ Weather Fastness	280°C / 8 / 4-5	290°C / 6-7 / 1	300°C / 8 / 4-5
RAL	7000	7032	7035
Color	Squirrel grey	Pebble Grey	Light Grey
Cable Application	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC
Heat Stability/Light Fastness/ Weather Fastness	250°C / 7-8 / 3-4	260°C / 8 / 4-5	260°C / 8 / 4-5
RAL	8003	9002	9003
Color	Clay Brown	Black	White
Cable Application	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC	Polyolefin, XLPE, & PVC
Heat Stability/Light Fastness/ Weather Fastness	300°C / 8 / 4-5	300°C / 8 / 5	300°C / 8 / 5

1) RAL references are an indication of the closest reference based on 2% masterbatch addition. This RAL color overview reflects the LYB standard Wire & Cable portfolio; additional colors can be matched and developed on request.

(2) Heat stability refers to 5% masterbatch addition in the respective carrier resin (ISO 12877-2, maximum color change of 4 according to Grey Scale ISO 105-A02, 5 minute dwell time)

(3) Light fastness refers to 5% masterbatch addition in the respective carrier resin (ISO 4892-2, measured according to Blue Wool Scale ISO 102-B02, 8 = very good, 1 = very poor)

(4) Weather fastness refers to 5% masterbatch addition in the respective carrier resin (ISO 4892-2, measured according to Grey Scale ISO 102-A02, 5 = very good, 1 = very poor)

About us

We are LyondellBasell (LYB) – a leader in the global chemical industry creating solutions for everyday sustainable living. Through advanced technology and focused investments, we are enabling a circular and low carbon economy. Across all we do, we aim to unlock value for our customers, investors and society. As one of the world’s largest producers of polymers and a leader in polyolefin technologies, we develop, manufacture and market high-quality and innovative products for applications ranging from sustainable transportation and food safety to clean water and quality healthcare. For more information, please visit www.lyb.com or follow [@LyondellBasell](https://www.linkedin.com/company/lyondellbasell) on LinkedIn.

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