Solution**Partner**

LG Wire & Cable Solutions XLPE for Power Cables



About LG Chem

LG Chem is playing the role of global solution partner that supports the success of customers in the business areas of Petrochemicals, IT & Electronic Materials, and Energy Solution.



LG Wire & Cable Solutions

LUTENE® Wire & Cable XLPE compounds for power cables are famous for high performance and widely acknowledged by top-tier cable producers. LG Chem has dedicated itself to the cable industry by supplying high performance XLPE with its unique technology.

LUTENE® Wire & Cable XLPE compounds show not only excellent electrical and crosslinking properties but also offers outstanding performance in processing.

LUTENE® Wire & Cable XLPE compounds offer our dear customers with a wide range of products to meet the diverse requirements in the cable industry.

On a mission to help the world to be better inter-connected, LG Chem is putting emphasis on R&D in the fields of HVDC as well as EHV materials. LG Chem is ready to grow with our customers leading the market.





LUTENE® Insulation XLPE for Power Cables

Grade	Density (g/cm ³)	Features	Applications	
XL8080NRS	0.921	LV & MV (\leq 11kV) Power cable insulation for peroxide cable	Up to 11kV	
XL8080NTS	0.921	MV power cable insulation for peroxide cable		
XL9090NT	0.921	Rapid cure XLPE insulation for peroxide cable	Up to 35kV	
XL8080TR	0.921	WTR-XLPE insulation for peroxide cable		
XL8080UCS	0.921	HV & EHV insulation for peroxide cable	Up to 230kV (HV & EHV)	
XL8080EHV	0.921	HV & EHV insulation for peroxide cable	Up to 400kV (HV & EHV)	
XL5050DC	0.921	D.C XLPE insulation for VSC (Voltage Source Converter)	DC & HVDC	

LUTENE® Semicon XLPE for Power Cables

Grade	Density (g/cm ³)	Features	Applications
XL2808BK	1.13	Conductor & bonded insulation shield	
XL2810BK	1.13	Conductor & bonded insulation shield (High viscosity)	
XL2700BK	1.17	Strippable insulation shield	Lin to 35kV
XL2710BK	1.17	Strippable insulation shield (High viscosity)	
XL2808BKTR	1.12	Conductor & bonded insulation shield showing excellent surface smoothness for WTR-XLPE cable	
XL2700BKTR	1.16	Strippable insulation shield showing excellent cross-linking property for WTR-XLPE cable	
XL2802BK	1.12	Conductor & bonded insulation shield	Up to 132kV (HV)
XL2902BK	1.13	Conductor & bonded insulation shield	Up to 400kV (HV & EHV)

Solutions for High & Extra High Voltage Power Cables

In times of rapidly growing high voltage networks, LG Chem has dedicated itself to help cable makers to meet the complicated needs of their customers.

LUTENE® Insulation XLPE for HV / EHV provides

- Superior cleanliness : Extremely low level of contamination
- Excellent electrical properties
- Wide range extrusion and excellent processability
- Enhanced scorch resistance

LUTENE® Semicon XLPE for HV / EHV provides

- Super smoothness surface
- Excellent electrical properties
- Long-run extrusion without scorch



Material System Recommendation for HV/EHV cables

LUTENE [®] Insulation XLPE		LUTENE [®] Semicon XLPE		Applications
Grade	Features	Grade	Features	Αμριισατιστισ
XI 90901105	Ultra-Clean XLPE compound	XL2802BK	Conductor & Bonded Insulation Shield (HV)	HV (up to 132kV)
XL8080UCS	for HV / EHV Power Cable	XI 000051/	Conductor & Bonded Insulation Shield (HV/EHV)	EHV (up to 230kV)
XL8080EHV	Extra-Clean XLPE compound for EHV Power Cable	YT305RK		EHV (up to 400kV)

Solutions for Medium Voltage Power Cables

Power distribution networks are demanding more competitiveness to cable makers under current economic hardships. LG is ready to be your solution.

LUTENE® Insulation/Semicon XLPE for MV power cables offers cable makers the solution with both high-productivity and high-quality materials.

LUTENE® Insualtion XLPE for MV power cables provides

- Excellent electrical properties
- Very low level of contamination
- Superb processing performance

LUTENE® semicon for MV power cables provides

- Excellent electrical properties
- Stable conductivity over a wide temperature range
- Excellent extruded surface smoothness



Material System Recommendation for MV cables

	ulation XLPE	LUTENE [®] Semicon		
Grade	Features	Bonded Type	Strippable Type	Features
XL8080NTS	Classical	XL2808BK	XL2700BK	Standard viscosity
XL9090NT	Rapid cure	XL2810BK	XL2710BK	High viscosity
XL8080TR	Water tree-retardant	XL2808BKTR	XL2700BKTR	Standard viscosity

Solutions for Direct Current(DC) Cables

The need for sustainable & green growth requires powers to be delivered from distant sources which is challenging for cable makers. LG Chem is the right solution.

LUTENE® XL5050DC is a Ultra-clean(UC) version of XLPE for peroxide-cured DC cables and has an extremely low level of contamination. This was specially developed for low space charge accumulation in DC cables. LG Chem is constantly developing materials for the future of our customers.

The features of LUTENE® XL5050DC for DC cables are

- Superior cleanliness
- Low space charge accumulation
- Longevity of production period
- Enhanced scorch safety



Grade	Density* (g/cm ³)	MI* (g/10min)	Degree of Crosslinking (%)	Application
XL5050DC	0.92	2.0	min. 80	XLPE insulation for peroxide cured D.C cables

* Base resin

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