Hanwha Solutions

Wire & Cable Division

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builds a better tomorrow with clean technology

Hanwha Solutions Wire and Cable Division, part of Hanwha Group (est. 1952), is a global chemical materials manufacturer specializing in high-performance polymer compounds for power cable applications. The division develops and produces XLPE, Semicon, and PE materials used for insulation and jacketing by MV, HV, and S/EHV cable manufacturers, across both underground and subsea applications.

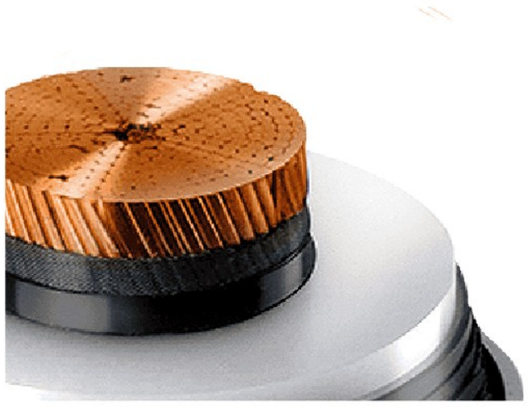
Operating state-of-the-art manufacturing facilities, Hanwha Solutions Wire and Cable Division supplies high-purity, high-reliability materials to more than 265 cable manufacturers worldwide, supporting critical power transmission infrastructure.

Through advanced polymer technology, strict quality control, and continuous innovation, the division continues to strengthen its position as a global specialty supplier of XLPE and power cable compounds, enabling excellence across the power cable value chain.

Power Cable Compounds

Class	Property / Grade	Melt Index	Density	Tensile Strength at Break	Elongation at Break	Application
		g/10min	g/cm3	kgf/cm2	%	
LV Power Cable Insulation	CLNA-8262	2.60	0.922	180	800	LLDPE, Base Resin for Silane Crosslinking
MV/HV/EHV/DC Power Cable Insulation	CLNB-8141S	-	0.921	200	550	XLPE for MV Power Cable Insulation (Up to 69kV(Um 72.5kV))
	CLNA-TR8142EC	-	0.922	200	550	Tree Retardant XLPE for URD or Submarine Cable (Up to 69kV(Um72.5kV))
	CLNA-8141SC	-	0.921	200	550	XLPE for HV Cable Insulation (Up to 161kV(Um 170kV))
	CLNA-8141EHV	-	0.921	200	550	XLPE for EHV Cable Insulation (Up to 230kV(Um 245kV))
	CLNA-8141SEHV	-	0.921	200	550	XLPE for EHV Cable Insulation (Above 230kV(Um 245kV))
	CLNA-8151	-	0.921	200	550	XLPE for DC Power Cable Insulation (Up to 800kV)
HV/EHV Subsea Cable Insulation	CLNS-8141SC	-	0.921	200	550	XLPE for HV Cable Insulation (Up to 161kV(Um 170kV)), Enhanced Long-run Processability, Shorter Degassing time
	CLNS-8141EHV	-	0.921	200	550	XLPE for EHV Cable Insulation (Up to 230kV(Um 245kV)), Enhanced Long-run Processability, Shorter Degassing time
	CLNS-8141SEHV	-	0.921	200	550	XLPE for EHV Cable Insulation (Above 230kV(Um 245kV)), Enhanced Long-run Processability, Shorter Degassing time
Outdoor Cable Insulation	CLBA-8923BK	-	0.932	200	550	Black XLPE for Outdoor Cable Insulation (Up to 36kV), Excellent Tracking Resistance
	CLBB-8923BK	-	0.923	200	550	Black XLPE for Outdoor Cable Insulation (Up to 36kV)
	CLBA-8924BK	-	0.930	200	550	Black XLPE for Outdoor Cable Insulation (Up to 36kV), Excellent Weatherability
Power Cable Semiconductive Shield	CTBA-8720BK	-	1.14	190	200	Conductor and Bonded Insulation Shield for MV Cable (Up to 69kV(Um 72.5kV))
	CTBA-8730BK	-	1.14	190	200	Conductor and Bonded Insulation Shield for MV Cable (Up to 69kV(Um 72.5kV))
	CCBA-8715BK	-	1.14	140	300	Strippable Insulation Shield for EPR and XLPE Cables (Up to 46kV(Um 52kV))
	CCBA-8725BK	-	1.14	140	300	Strippable Insulation Shield for MV Cable (Up to 69kV(Um 72.5kV))
	CCBA-8735BK	-	1.14	140	300	Strippable Insulation Shield for MV Cable (Up to 69kV(Um 72.5kV))
	CTBA-8740BK	-	1.14	150	190	Conductor and Insulation Shield for HV Cable (Up to 161kV(Um 170kV))
	CTBA-8745BK	-	1.14	150	190	Conductor and Insulation Shield for EHV Cable (Up to 230kV(Um 245kV))
★	CTBA-8750BK	-	1.14	150	190	Conductor and Insulation Shield for EHV Cable (Above 230kV(Um 245kV))
★	CTBA-8760BK	-	1.14	150	190	Conductor and Insulation Shield for DC Cable (Up to 800kV)

★ Aluminium Liner is applied to 8750BK and 8760BK to protect their electrical stability and cleanliness from moisture and oxygen.



Telecommunication Cable Compounds

Property / Grade	Melt Index	Density	Tensile Strength at Break	Elongation at Break	Application
	g/10min	g/cm3	kgf/cm2	%	
CHNA-8380	0.7	0.945	240	550	HDPE Insulation for Solid, Skin of Foam/Skin, LAN Cable
CHNA-8380L	0.7	0.945	240	550	HDPE Insulation for High Speed LAN Cable
8600H/L	8.5/2.0	0.962/0.921	260/120	500/600	HDPE/LDPE Insulation for Gas Injection Coaxial Cable

* The data is typical value, not the specification and may be varied depending on the test condition.

Jacketing Compounds

Property / Grade	Melt Index	Density	Tensile Strength at Break	Elongation at Break	Carbon Black Contents	Application
	g/10min	g/cm3	kgf/cm2	%	%	
CLBB-850BK	0.3	0.933	165	550	2.6	Black LDPE Jacketing Compound
CLNA-8400	0.7	0.920	180	800	-	Natural Colorable LLDPE Jacket, UV stavilizer needs to be blended
CLBA-8450BK	0.8	0.934	200	800	2.5	Black LLDPE Jacketing Compound
CMBA-8240BK	0.2	0.949	300	800	2.5	Black MDPE Jacketing Compound
CHBA-8241BK	0.2	0.955	300	800	2.5	Black HDPE Jacketing Compound
CHBA-8241RC	0.2	0.959	250	800	2.5	Black HDPE Jacketing Compound (50% recycled content)

* The data is typical value, not the specification and may be varied depending on the test condition.

EVA for Wire & Cable Compounds

Property / Grade	VA Content	Melt Index	Density	Melting Temp	Tensile Strength at Break	Elongation at Break	Hardness (Shore A)	Application
	%	g/10min	g/cm3	℃	kgf/cm2	%	–	
1815	15	6.0	0.936	88	160	800	93	Base Resin for Inner Semiconductive Compounds
2815	15	6.5	0.936	88	170	800	93	Base Resin for Inner Semiconductive Compounds
1828	28	4.0	0.950	75	200	800	79	Base Resin for Flame Retardant Compounds
1834	33	17.0	0.953	63	105	800	65	Base Resin for Outer Semiconductive Compounds

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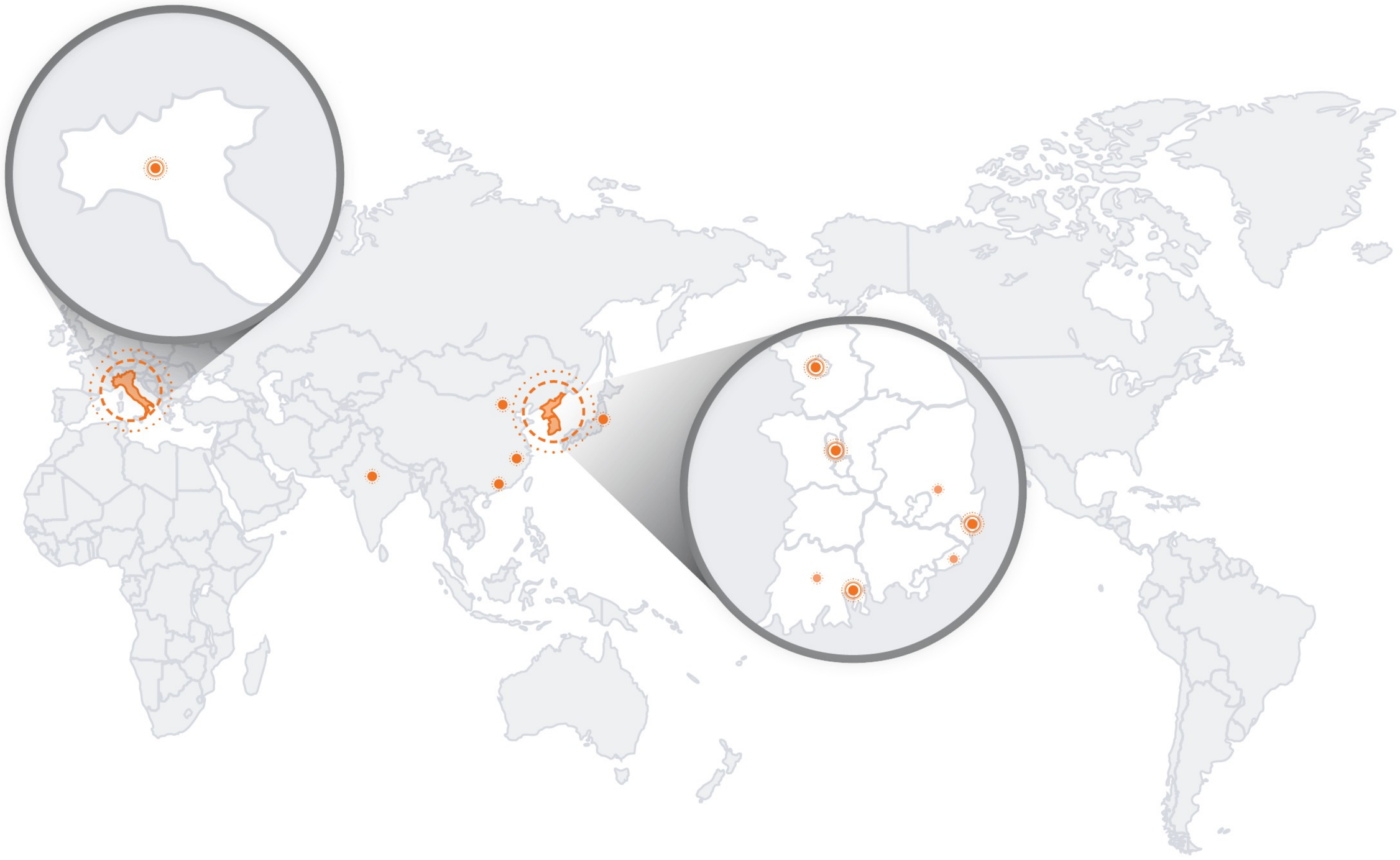
Global Networks



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Hanwha Solutions Wire & Cable Division, a key business unit of **Hanwha Solutions** under the Hanwha Group (est. 1952), is a global leader in advanced polymer materials for power cable applications. Building on decades of expertise in petrochemicals and material science, the division delivers high–performance compounds that enable reliable and efficient power transmission across the world. The division traces its origins to 1981 with the launch of the **Wire & Cable** business, followed by the completion of its first dedicated compound plant in 1985.
Since then, **Hanwha** has continuously expanded its capabilities, achieving key milestones such as the first development of 132kV XLPE in Korea in 1991, the commercialization of TR–XLPE in 2002, and successive expansions of super clean XLPE production facilities to meet growing global demand.

Through sustained investment in technology and infrastructure, the division has strengthened its leadership in high–voltage materials. Major achievements include successful PQ tests for 345kV XLPE (2009), 400kV XLPE (2024), and Type tests for HVDC 320kV and HVAC 500kV systems (2026), demonstrating world–class performance in both AC and DC transmission applications. In parallel, the division has advanced its semiconductive materials portfolio, including Korea's first commercial production of HV–grade semicon EBA (2022) and expansion of in–house semicon production capacity.

In recent years, **Hanwha Solutions Wire & Cable** Division has accelerated its global footprint and sustainability initiatives. The launch of **Hanwha Cable Solution** in Milan (2025) marked a significant step toward closer engagement with European customers, while the development of eco–friendly solutions such as recycled PE compounds (GRS certified) and CLNS–XLPE for submarine applications reflects its commitment to sustainable innovation.

Today, the division develops and manufactures a comprehensive range of materials, including XLPE, Semiconductive (Semicon), and polyethylene (PE) compounds, designed for insulation and jacketing in medium–, high–, and extra–high–voltage (MV, HV, and EHV) cable systems. These solutions are widely applied across underground and subsea cable infrastructure, supporting the rapid expansion of global power networks. With state–of–the–art production facilities and stringent quality control systems, **Hanwha Solutions Wire & Cable** Division supplies high–purity, high–reliability materials to more than 265 cable manufacturers worldwide. Through advanced polymer technology, continuous innovation, and a strong customer–centric approach, the division continues to strengthen its position as a trusted global supplier of specialty compounds, enabling the future of resilient and sustainable energy infrastructure.

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