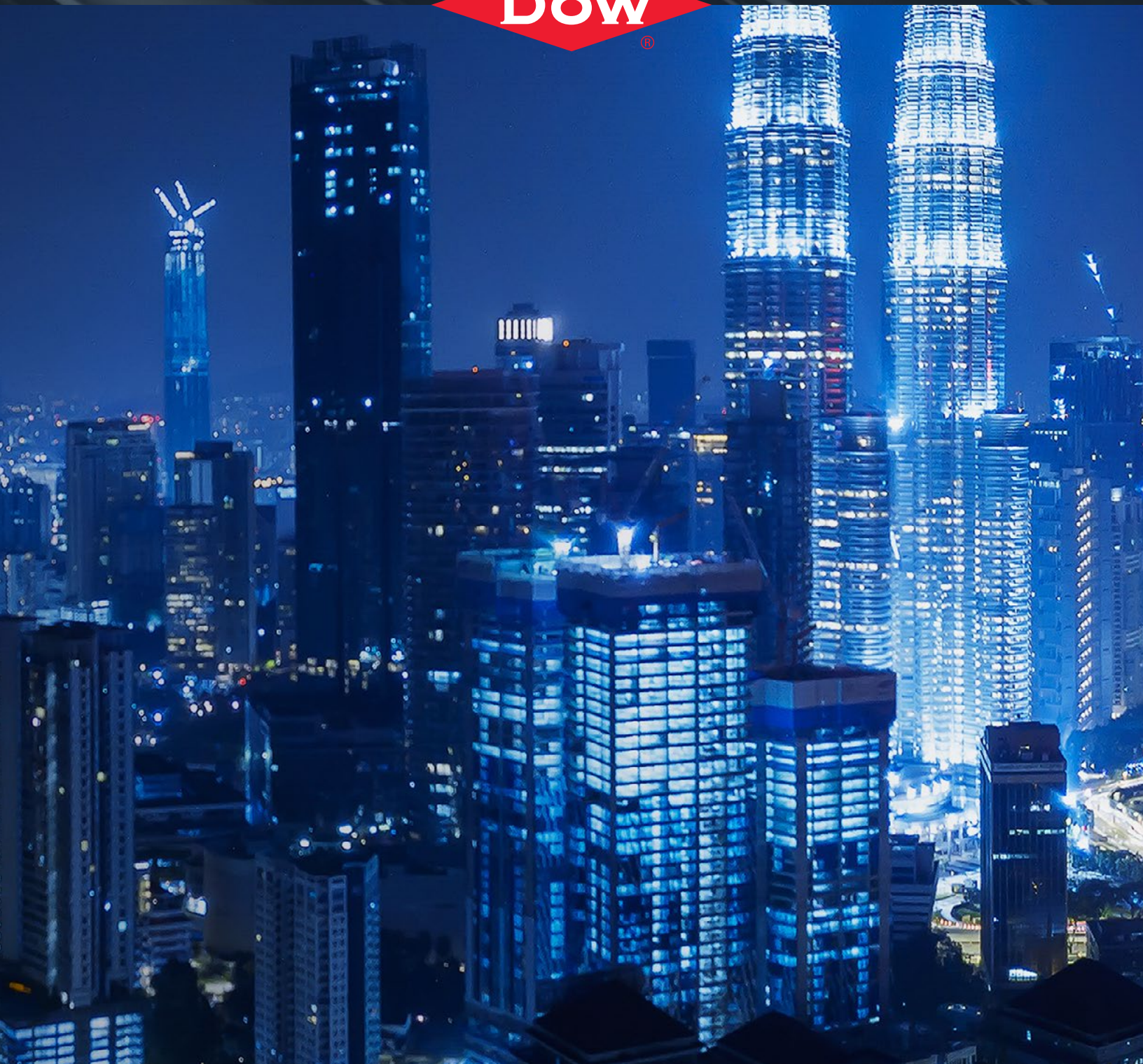


Why **SI-LINK™**?

Focused on the safe, efficient delivery of low voltage power.

DOW®



Protecting power – and people – in an evolving world.

In the largest cities...and the smallest towns. Low voltage (LV) cables carry electrical power directly to homes, and into office buildings and industrial centers. It's an extremely important job. One that requires strong, dependable protection to ensure not just efficient delivery, but the safety of people and communities.

By working closely together, we can provide that service – and help the power industry evolve through innovation.

A powerful solution.

SI-LINK™ Moisture-Curable Compounds are specifically designed to produce insulation and jacketing for high-performance LV cables. To meet and exceed such difficult challenges, these crosslinkable, silane-ethylene copolymers offer:⁽¹⁾

- UL44 recognition
- Voltage service for applications up to 2 kV
- 75°C and 90°C wet temperature ratings
- Enhanced scorch resistance, flame retardance (FR) up to VW-1, sunlight resistance (SR), and photovoltaic (PV) capabilities
- Suitability for most moisture-cure extrusion technologies
- Oil and gas resistance
- -40°C rated RoHS (Restriction of Hazardous Substances) compliance

Backed by strong technology.

SI-LINK™ Moisture-Curable Compounds are produced using proprietary reactor copolymer crosslinking technology that enables comparable or better performance than widely used, competitive moisture-cure technologies:

- **Total costs** – SI-LINK™ compounds can help lower overall costs with reduced
 - Rolled cost/lb.
 - Product SKUs
 - Warehouse space using bulk containers/silo storage

- **Shelf life** – Unlike competitive products, SI-LINK™ materials have a shelf life of more than one year. In addition to longer storage, this allows the use of partial boxes. The exceptional stability of SI-LINK™ also helps guard against partial or premature crosslinking.
- **Processability** – SI-LINK™ offers excellent productivity and high output rates, with customers reporting less scrap and scorch than competitive materials. Other benefits include longer run times, easier changeover, and comparable or better extrusion speeds.
- **Cure speed** – The cure rate of SI-LINK™ compounds can be adjusted based on catalyst package and application needs.

Changing for the better.

It's no secret. We've evolved quite a bit ourselves over the last few years. The deep portfolio of materials available from Dow now includes acrylates, cellulose, polyolefins, silicones, and urethanes – greatly expanding the range of solutions based on SI-LINK™ moisture-cure technology.

Of course, some things are better left as is. So, we still offer global R&D, manufacturing, and supply capabilities...as well as industry-leading quality control. And most important, our goal is still to help you develop the best possible insulation and jacketing solutions for your specific needs.

Answering new challenges.

What's one thing you can count on in the ever-changing power industry? Our commitment to innovation, and to you.

A few of our recent LV developments include faster curing, scorch-resistant SI-LINK™ AC products, combined catalyst master batches, and VW-1 FR solutions. We're constantly working to find better answers. And we're looking forward to the discoveries we can make together.

Collaboration is the key.

With more than 75 years of experience, we've been working hand-in-hand with power customers and utilities for a long time. In many cases, decades.

But now – with constantly growing and evolving needs – close collaboration is more important than ever. By combining your expertise and experience with ours, plus input from other key members of the value chain, we can keep setting industry standards for efficiency, reliability, longevity, and ease of installation.



⁽¹⁾ Typical values, not to be construed as specifications. Users should confirm results by their own tests.
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Table 1: SI-LINK™ Moisture-Curable Compounds Portfolio

	Non-FR 600V Distribution Cables				Horizontal Burn Large Size Cables (≥ 6 AWG)	Horizontal Burn Circuit Size Cables				Tray Cables for Industrial	VW-1		
	CABLE TYPE	USE & USE-2			XHHW, XHH, XHHW-2, RHH, RHW, RHW-2, SIS, USE, USE-2	XHHW, XHH, XHHW-2, RHH, RHW, RHW-2, SIS, USE, USE-2				XHHW, XHH, XHHW-2, RHH, RHW, RHW-2, SIS, USE, USE-2	XHHW, XHH, XHHW-2, RHH, RHW, RHW-2, SIS, USE, USE-2		
	UL COMPOUND LISTINGS	SI-LINK™	SI-LINK™ AC		SI-LINK™ DFDB-5445 BK	SI-LINK™ DFDB-5425 UV	SI-LINK™ DFDB-5425 BK	SI-LINK™ DFDB-5425 AC BK		SI-LINK™ CT	SI-LINK™ DFDA-5427 BK		SI-LINK™ DFDA-5427 UV
Silane Copolymer Base Resin	DFDA-5451 NT	88.7%	-	-	60.0%	70.0%	63.7%	-	-	38.7%	41.6%	41.6%	45.0%
	DFDB-5451 NT		88.7%	92.0%				63.7%	67.0%				
Catalyst Master Batch (MB)	DFDB-5480 NT	5.0%	-	-	5.0%	-	5.0%	-	-	5.0%	5.0%	-	-
	DFDA-5481 NT		-	-	-	-		-	-				
	DFDA-5488 NT	-	5.0%	-	-	-	-	5.0%	-	-	-	-	-
	DFDB-5418 BK	-	-	8.0%	-	-	-	-	8.0%	-	-	-	-
Flame Retardant MB	DFDB-5445 BK	-	-	-	35.0%	-	-	-	-	-	-	-	-
	DFDB-5400 NT	-	-	-	-	-	25.0%	25.0%	25.0%	50.0%	-	-	-
	DFDA-5401 UV	-	-	-	-	30.0%	-	-	-	-	-	-	-
	DFDA-5470 NT	-	-	-	-	-	-	-	-	-	50.0%	-	-
	DFDA-5471 NT	-	-	-	-	-	-	-	-	-	-	55.0%	-
	DFDA-5471 UV	-	-	-	-	-	-	-	-	-	-	-	55.0%
Color MB	DFDB-5410 BK	6.3%	6.3%	-	-	-	6.3%	6.3%	-	6.3%	3.4%	3.4%	-

NOTE: 5425 BK and AC BK can be natural using 70% silane copolymer base resin without a color MB

Building strong formulations. And relationships.

Table 1 lists our basic SI-LINK™ products and formulations for a broad range of applications. We'd love to team up and see what exciting new solutions we can develop.



Let's get connected.

We're excited about the possibility of collaborating with you and helping determine which SI-LINK™ compound is right for your operation. We believe if you try it, you'll find it's the best choice for high-performance LV cable insulation and jacketing.

Please contact your Dow representative, call the nearest location on the following page, or visit www.dow.com for more information on SI-LINK™ Moisture-Curable Compounds.

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