

A grayscale photograph of an automotive manufacturing plant. In the foreground, a car's metal chassis is mounted on a production line. Several robotic arms, including a large one on the right with 'COMAU' branding, are positioned around the chassis. The background shows more industrial equipment and factory structures.

An Inside Look

Automotive Plant

CONNECTIVITY SOLUTIONS FOR AUTOMOTIVE MANUFACTURING



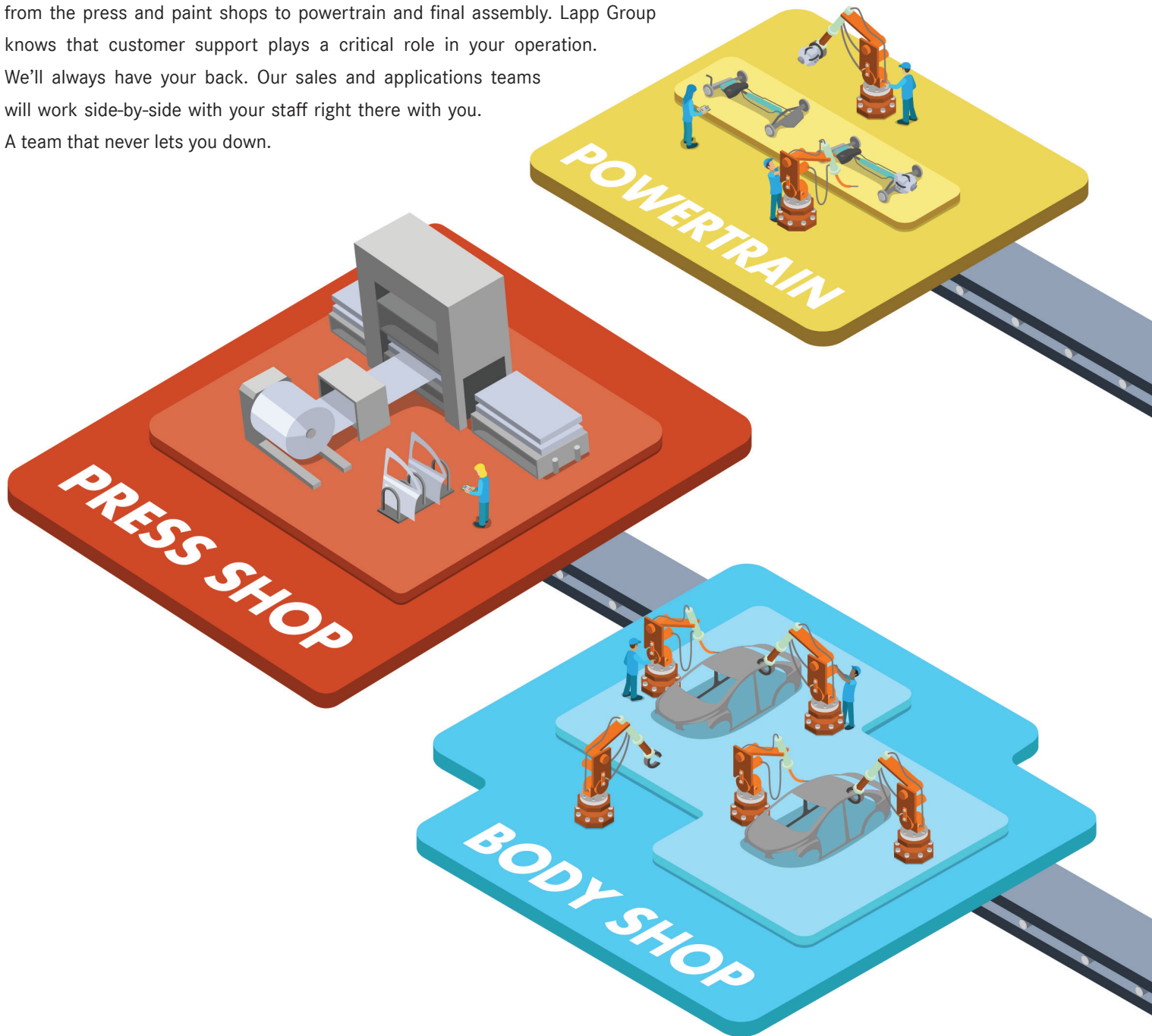
LAPP GROUP

Keep your assembly line Running at top speed

When it comes to automotive production, nothing is more critical than keeping your operation running at top speed. Lapp Group's intimate knowledge of the manufacturing processes used in the automotive industry, your needs, and what's important to you, allows us to provide power connectivity solutions that ensure greater operational efficiencies, maximum output, and – most importantly – peace of mind. Lapp Group provides a full range of cost-effective power, data, and control connection solutions that will fit your installation perfectly, from the press and paint shops to powertrain and final assembly. Lapp Group knows that customer support plays a critical role in your operation.

We'll always have your back. Our sales and applications teams will work side-by-side with your staff right there with you.

A team that never lets you down.



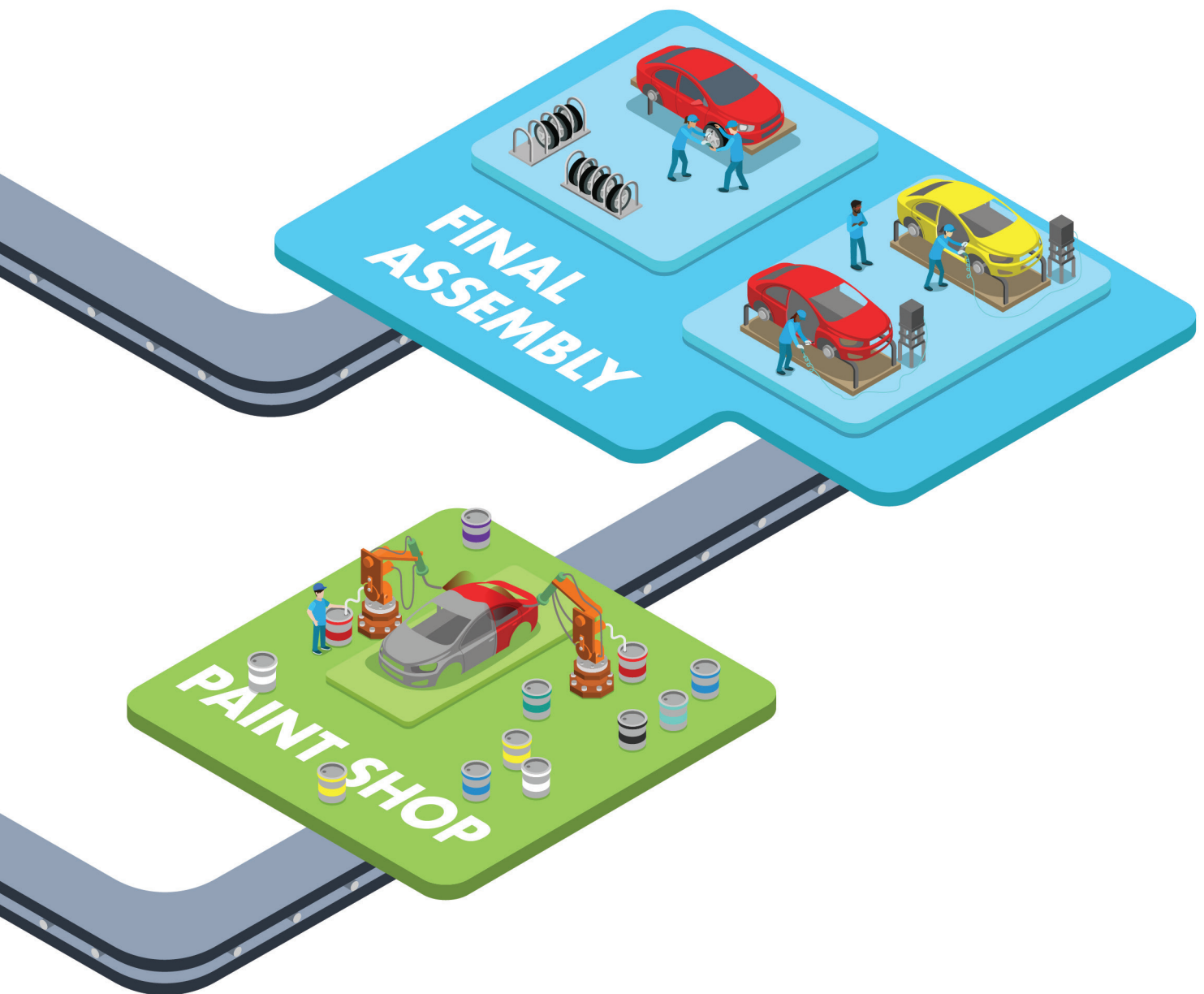
UNRIVALED DURABILITY AND DEPENDABILITY

We know that dependability is your number-one priority. Every connection. Every time. You could choose any manufacturer, but why would you compromise?

Today's sophisticated robotics and automation processes demand flexibility and durability, and Lapp's products have proven to be more than up to the task at dozens of domestic and international facilities. Lapp products provide optimum performance no matter the temperature extremes or how challenging the environments. And they resist fluids, abrasions, and chemicals often found in production processes. You could pay less, but with Lapp products, you get more. More durability and performance which — in the end — saves you money.

INDUSTRY LEADERSHIP

Lapp Group built its reputation with the Big Three in Detroit and manufacturers in Europe. More recently, we're helping these manufacturers within their new domestic plants in the southern United States. When you choose Lapp Group, you'll have access to a billion-dollar global organization with over 40,000 products including cable, connectors, strain relief, and accessories. Lapp Group's single-source connectivity solutions include a robust suite of both standard and custom-made assemblies for power & control and data applications.



Stationary power & control cable

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| | <p>ÖLFLEX® 190
 ÖLFLEX® 190 CY
 Extremely oil-resistant flexible control cable with UL & CSA</p> | | <p>ÖLFLEX® 490
 ÖLFLEX® 490 CP
 Highly abrasion-resistant control cable with PUR jacket & UL/CSA AWM</p> |
| | <p>ÖLFLEX® 409 P
 Oil and abrasion-resistant control cable with PUR jacket & UL/CSA AWM</p> | | <p>ÖLFLEX® POWER MULTI
 Flexible & oil-resistant tray cable & STOOW extra hard service cordage</p> |









Continuous flex power & control cable

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| | <p>ÖLFLEX® FD AUTO-X
 Heavy duty tray-rated continuous flex control cable with TPE jacket</p> | | <p>ÖLFLEX® CHAIN 896 P
 High-acceleration continuous flex power & control cable with PUR jacket</p> |
| | <p>ÖLFLEX® FD 855 P
 ÖLFLEX® FD 855 CP
 Halogen-free continuous flex control cable with PUR jacket</p> | | <p>ÖLFLEX® FD 890
 ÖLFLEX® FD 890 CY
 Super flexible heavy duty continuous flex control cable with PVC jacket</p> |
| | <p>ÖLFLEX® CHAIN 809
 ÖLFLEX® CHAIN 809 CY
 Continuous flex control cable with PVC jacket</p> | | <p>ÖLFLEX® FD 90
 ÖLFLEX® FD 90 CY
 Flexible single-conductor power supply cable with PVC jacket</p> |

















Spiral cable

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| | <p>ÖLFLEX® SPIRAL 400 P
 Retractable control cable with PUR jacket</p> | | <p>ÖLFLEX® SPIRAL 540 P
 Retractable power supply cable with safety yellow PUR jacket</p> |
| | <p>UNITRONIC® SPIRAL
 Retractable shielded data cable with PUR jacket</p> | | <p>SPIRAL H07BQ-F BLACK
 Retractable power supply cable with PUR jacket</p> |




Tray-rated cable

		<p>ÖLFLEX® TRAY II ÖLFLEX® TRAY II CY Extremely oil-resistant & flexible tray cable with UL & CSA</p>			<p>ÖLFLEX® AUTO-I Heavy duty flexible tray cable with color-coded conductors per NFPA 79 for AC/DC control wiring</p>
		<p>ÖLFLEX® FD SDP Severe duty power bus drop cable with cULus TC approval</p>			<p>UNITRONIC® 300 UNITRONIC® 300 S Multi-conductor 300V flexible industrial signal & control cable</p>








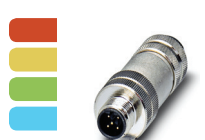
VFD & servo cable

		<p>ÖLFLEX® VFD 2XL Flexible 2kV VFD cable with TC-ER approval</p>			<p>ÖLFLEX® VFD 2XL with Signal Flexible 2kV VFD cable with control pair and TC-ER approval</p>
		<p>ÖLFLEX® VFD 2XL SYMMETRICAL Symmetrical 2kV motor supply cable for large-HP VFD motors with TC approval</p>			<p>ÖLFLEX® FD VFD Continuous flex 1kV VFD cable with TC-ER approval</p>
		<p>ÖLFLEX® SERVO FD 796 CP High-acceleration continuous flex servo cable with PUR jacket</p>			<p>ÖLFLEX® SERVO FD 798 CP High-acceleration continuous flex encoder & resolver cable with PUR jacket</p>
		<p>SIEMENS® standard 6FX 8PLUS SIEMENS® standard 6FX 5008 Servo cables for continuous flex and stationary applications with PUR jacket</p>			<p>INDRAMAT® standard INK Continuous flex servo cable with PUR jacket</p>



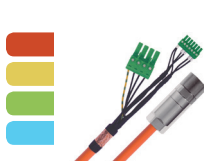

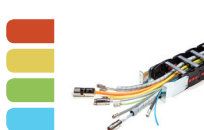
Torsion & robotic cable

		<p>ÖLFLEX® ROBOT F1 ÖLFLEX® ROBOT F1 (C) Robotic cable for flexing & torsion motion with UL AWM</p>			<p>ÖLFLEX® ROBOT 900 P ÖLFLEX® ROBOT 900 DP Robotic cable for flexing & torsion motion</p>
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Bus cable & connectors

	UNITRONIC® BUS DeviceNet™ Stationary & continuous flex cable for DeviceNet bus systems		DeviceNet™ connectors Field wireable connectors for DeviceNet bus systems
	UNITRONIC® BUS PB Stationary cable for PROFIBUS-DP/FMS/FIP bus systems		UNITRONIC® BUS PB FD Continuous flex cable for PROFIBUS-DP/FMS/FIP bus systems
	UNITRONIC® BUS PB TRAY Stationary tray cable for PROFIBUS-DP/FMS/FIP bus systems		UNITRONIC® BUS PB TORSION Cable for torsion applications in PROFIBUS-DP/FMS/FIP bus systems
	UNITRONIC® BUS PB FESTOON Cable for festoon applications in PROFIBUS-DP/FMS/FIP bus systems		PROFIBUS® connectors Field wireable connectors for PROFIBUS-DP/FMS/FIP bus systems

























Systems solutions made by Lapp

	Rockwell Automation® assemblies Feedback & power cable assemblies for Rockwell Automation motors		Siemens® 6FX 8002 assemblies Siemens® 6FX 5002 assemblies Servo assemblies for Siemens standards
	LK-INX Indramat® assemblies Servo assemblies for Indramat standards IKG/RKL & IKS/RKG		ÖLFLEX® CONNECT CABLES Custom cable solutions made by Lapp
	ÖLFLEX® CONNECT CHAIN Chain solutions made by Lapp		

Industrial connectors

	EPIC® rectangular connectors Multi-purpose power & control connectors		EPIC® pin & sleeve connectors Power connectors with IP44 or IP67 protection
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Ethernet cable & connectors

		ETHERLINE® CAT.5/5e; stationary Industrial Ethernet cable for stationary applications			ETHERLINE® CAT.6A/7 Industrial Ethernet cable for stationary applications
		ETHERLINE® CAT.5 ARMORED Armored industrial Ethernet cable for harsh industrial environments			ETHERLINE® CAT.5/5e; flexible Industrial Ethernet cable for flexible applications
		ETHERLINE® CAT.5e TRAY Flexible tray-rated industrial Ethernet cable			ETHERLINE® ROBUST ETHERLINE® ROBUST FR Flexible chemical-resistant industrial Ethernet cable
		ETHERLINE® CAT.5e; continuous flex Industrial Ethernet cable for continuous flex applications			ETHERLINE® CAT.6; continuous flex Industrial Ethernet cable for continuous flex applications
		ETHERLINE® CAT.6A; continuous flex Industrial Ethernet cable for continuous flex applications			RJ45 connectors Field wireable RJ45 connectors
		M12 connectors Field wireable connectors for data transmission			Ethernet tools Crimping and stripping tools for industrial Ethernet cable

Strain relief cable glands

		SKINTOP® non-metallic glands Non-metallic strain relief cable glands with NPT, PG & metric threads			SKINTOP® metallic glands Metallic strain relief cable glands with NPT, PG & metric threads
		SKINTOP® glands for EMC protection Nickel-plated strain relief glands with NPT, PG & metric threads			

ÖLFLEX®

UNITRONIC®

EPIC®

SKINTOP®

ETHERLINE®

HITRONIC®

SILVYN®

FLEXIMARK®

For more information or to connect with your local
Lapp Group representative please visit
lappgroupna.com