

Increase efficiency through standardisation and decentralisation

The Verein Deutscher Werkzeugmaschinenfabriken e.V. (VDW) [German Machine Tool Manufacturing Federation] developed DESINA® (DEcentralised and Standardised INstAllation technology), a comprehensive overall concept for the standardisation of electrical installation of equipment and machinery. State-of-the-art technologies are employed with the aim of simplifying installation work, speeding up assembly and repair work and improving quality. Decentralisation means that control components and their related functions are moved from the central control cabinet to field level.



LAPP and DESINA®-compliant products

The VDW used existing fieldbus systems as a basis for defining new standards for connectors and for increasing efficiency when cabling, working in partnership with the mechanical engineering, automotive and supplier sectors. As the leading supplier to machine tool manufacturers, LAPP is fully committed to the DESINA® concept. We can quickly and easily develop solutions for you that comply with DESINA® requirements, from the individual components right through to assembled cables that are ready for connection/installation.

Usage criteria	Cable designation																																																					
	ÖLFLEX® CLASSIC 0,6/1 KV unscreened	ÖLFLEX® SERVO 719	ÖLFLEX® SERVO 719 CY	ÖLFLEX® SERVO 728 CY	ÖLFLEX® SERVO FD 796 P	ÖLFLEX® SERVO FD 796 CP	ÖLFLEX® SERVO FD 798 CP	ÖLFLEX® CLASSIC 400 P	ÖLFLEX® 140	ÖLFLEX® 408 P	ÖLFLEX® 409 P	ÖLFLEX® 440 P	ÖLFLEX® 150	ÖLFLEX® 191	ÖLFLEX® 100 H	ÖLFLEX® 110 H	ÖLFLEX® SERVO FD 781 CY	ÖLFLEX® CLASSIC FD 810 P	ÖLFLEX® FD 855 P	ÖLFLEX® CHAIN 809 SC	ÖLFLEX® FD 90	ÖLFLEX® FD 90 CY	ÖLFLEX® CHAIN PN black	ÖLFLEX® CHAIN PN silver gray	ÖLFLEX® FD 891 / 891 CY	ÖLFLEX® FD 891 P	ÖLFLEX® CHAIN 896 P	UNITRONIC® FD P plus, FD CP plus, FD CP (TP) plus	UNITRONIC® SENSOR DESINA®	ÖLFLEX® TRAY II, TRAY II CY	ÖLFLEX® TORSION (D) FRNC	SERVO cable as per INDRAMAT® standard	SERVO cable as per LENZE® standard	SERVO cable as per FANUC® standard	SERVO cable as per SIEMENS® standard 6FX 8 PLUS	UNITRONIC® BUS PB FD Y HYBRID																		
Servo cable Screened Orange sheath RAL 2003		✓		✓	✓												✓					✓																																
Cable for measurement systems Screened Green sheath RAL 6018			✓			✓																																																
Power cable Unscreened Black sheath RAL 9005	✓	✓		✓			✓														✓	✓	✓	✓	✓	✓																												
24-volt control cable Unscreened Grey sheath RAL 7040 (similar to 7001)							✓	✓	✓		✓	✓	✓	✓	✓	✓							✓																															
Fieldbus hybrid cable Cu and fibre-optic cable Violet sheath RAL 4001																																																						
PROFIBUS DP Hybrid cable																																																						
Sensor/actuator cable Unscreened Yellow sheath RAL 1021																																																						
DESINA® marking on the sheath		✓	✓	✓	✓	✓	✓	✓														✓																																
Suitable for power chains						✓	✓	✓										✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Sheath compound with enhanced oil resistance		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
UL and/or CSA approval		✓	✓	✓	✓	✓	✓	✓																																														

✓ Main application/design
✓ Possible application