





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																																													
	Page	43	99	100	101	108	109	111	73	49	76	77	78	51	53	60	61	107	131	140	120	122	123	126	126	127	128	139	143	310	312	384	57	58	160	115	116	113	347							
		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									
 Properties																																														
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																																														