LAPP GROUP	**DATA SHEET**	0026501
	ÖLFLEX-FD® ROBUST	valid from : 05.11.2004

Application

ÖLFLEX-FD® ROBUST are high flexible connecting- and control cables, especially for the application in power chains also with high temperature as well as static laying by middle of mechanical use. They are intended for use in dry, damp and wet rooms. Under following to the indicate temperature range is an use outside possible. At room temperature they are widely consistent against impact of aqueous solution, including acids, bases, polar solvents, flexibiliser, cooling lubricants, detergents and exceptionally bio degradable oils.
ÖLFLEX-FD® ROBUST cables are special for use in power chains and continuously moving machine parts, automation engineering, assembly- and handling engineering, on/in production-and assembly lines.
Continuous, busy movements, usage of these cables in moving cable carriers, or on motor drum guidance or under a strain of more than 15 N/mm² is not allowed. The used materials are halogen-free.

Design

Conductor	tinned, superfine wire strand in accordance to IEC 60228 Class 6 that is VDE 0295 Class 6
Insulation	TPE-Compound P4/11
Core identification	in acc. to EN 50334 resp. VDE 0293, black cores with white numbers with or without green/yellow ground conductor
Stranding	cores with short length of lays in layer stranded, non woven material taping over outer layer
Sheath	TPE-Compound P4/11, black

Electrical properties at 20°C

Nominal voltage	300 / 500 V
Test voltage	4000 V AC

Mechanical and thermal properties

Temp. range	flex. use	- 40°C up to + 105°C max. conductor temperature
	static use	- 50°C up to + 105°C max. conductor temperature
Min. bending radius	flex. use	7,5 x cable diameter temperature are lower than + 70°C 10 x cable diameter temperature are higher than + 70°C
Oil resistance	in acc. to IEC/ST9 (VDE 0472 part 803 test method b)	
EC directive	this cable confirms to ECD 73/23/EWG (low voltage directive).	