


1027751	DATA SHEET	
valid from: 01.01.2019	ÖLFLEX® CHAIN 808 CP	

Application

ÖLFLEX® CHAIN 808 CP cables are high-flexible oil-resistant power and control cables with an outer sheath of Polyurethane for flexible use and fixed installation under light or medium mechanical load conditions. They are among others designed for use in dry, damp or wet rooms. Considering the indicated temperature range an outdoor use is possible. ÖLFLEX® CHAIN 808 CP cables are increased oil resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant to high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. They are especially suitable for basic requirements (Basic Line) in power chains and in permanently moved machine parts. Usage of these cables in moving cable carriers or on motor drum guidance or under a tensile strain of more than 15 N/mm² conductor cross-section is not allowed. The screen is a protection against electrical interference.

Application range:

Power chains or moving machine parts, especially in wet areas of machine tools and transfer lines, measuring, control and regulation circuits.

Design

Design	based on DIN EN 50525-2-21 resp. VDE 0285-525-2-21 and DIN EN 50525-2-51 resp. VDE 0285-525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Insulation	LAPP special PVC compound P8/1, better than the PVC compound TI2 acc. to DIN EN 50363-3 resp. VDE 0207-363-3
Core identification code	acc. to VDE 0293-1, with or without GN/YE protective conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293-334
Outer sheath	Polyurethane compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 colour: grey, similar RAL 7001

Electrical properties at 20°C

Rated voltage	U ₀ / U: 300 / 500 V
Test voltage	core / core: 4000 V core / screen: 2000 V

Mechanical and thermal properties

Minimum bending radius	flexing up to 3m travel distance (horizontal, self supporting): 10 x cable diameter flexing up to 10m travel distance (horizontal, sliding): 12 x cable diameter fixed installation: 4 x cable diameter
Temperature range	occasional flexing: -5 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Number of cycles	2 mio. cycles
Travel distance	10m
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
Tests	acc. to IEC 60811 resp. VDE 0473 part 811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

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