

## ÖLFLEX® CHAIN 815 CP

DB 1026851

valid from: 24.03.2011

**Application**

ÖLFLEX® CHAIN 815 CP cables are especially high-flexible oil-resistant power and control cables with an outer sheath of Polyurethane for flexible use and fixed installation under medium mechanical load conditions. They are among others designed for use in dry, damp or wet rooms. Considering the temperature range an outdoor use is possible. ÖLFLEX® CHAIN 815 CP cables are increased oil resistant and at room temperature widely resistant to acids and caustic solutions. The outer sheath is resistant against high mechanical load, particularly to abrasion and scouring, cut resistant, microbe-proof and hydrolysis resistant. ÖLFLEX® CHAIN 815 CP cables are for use as power and control cable in automation, assembly and robotics, on and in assembly and production lines. They are especially for use 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/mm<sup>2</sup> conductor cross-section is not allowed. The screen is a protection against electrical interference.

**Application range:**

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

**Design**

Design	based on HD 21.13 S1 +A1 resp. VDE 0281-13 and HD 22.10 S2 resp. VDE 0282-10
Conductor	extra fine wire strands of bare copper acc. to IEC 60228 resp. VDE 0295, Class 6
Core insulation	LAPP special PVC compound P8/1, better than the PVC compound TI2 acc. to HD 21.1 S4 resp. VDE 0281-1
Core identification	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to DIN EN 50334 resp. VDE 0293 part 334
Taping	nonwoven wrapping
Screen	braid of tinned copper wires, coverage = 85% (nominal value)
Outer sheath	Polyurethane-compound TMPU acc. to EN 50363-10-2 resp. VDE 0207-363-10-2 Colour: Gray, similar RAL 7001

**Electrical properties**

Nominal voltage	U <sub>0</sub> /U: 300/500 V
Test voltage	Core/Core: 4000 V AC Core/Screen: 2000 V AC

**Mechanical and thermal properties**

Min. bending radius	flexing: 7,5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	flexing: -5 °C up to +70 °C max. conductor temp. fixed installation: -40 °C up to +80 °C max. conductor temp.
Travel distance	in power chains up to 10 m
Flammability	flame retardant in acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
Oil resistance	acc. to EN 50363-10-2 resp. VDE 0207-363-10-2
Tests	acc. to IEC 60811 resp. VDE 0473 part 811, VDE 0472, EN 50395
EC directive	This cable is conform to the EC-Directives 2006/95/EC (Low Voltage Directive) and 2002/95/EC (RoHS, Restriction of the use of certain hazardous substances).