



<b>DATA SHEET</b>	0015003
<b>ÖLFLEX® 150 QUATTRO</b>	valid from : 15.10.2009

## Application

ÖLFLEX® 150 QUATTRO cables are oil resistant power and control cables for occasional flexible use and fixed installation for medium mechanical stresses. They are among others designed for use in dry, damp and wet rooms. Due to their construction and the composition of material, they are approved in accordance with European, US - American and Canadian standards. They are not designed for outdoor use.

ÖLFLEX® 150 QUATTRO cables are increased oil resistant and at room temperature they are widely resistant to acids and alkali-resistant. They are suitable for free non-continuously recurring movement without tensile load or compulsory guidance.

Application range:

Plant engineering and construction, industrial machinery, air conditioning installations, machine tools.

## Design

Design	construction standard H05VV5-F acc. to HD 21.13S1 resp. VDE 0281-13, UL AWM Style 21098 or 2587, CSA AWM C22.2 No. 210-05
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. VDE 0295, Class 5
Core Insulation	PVC compound TI2 in acc. to HD 21.1 resp. VDE 0281 part 1, UL-Class 43 / CSA 90 °C
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 0293-334
Outer sheath	PVC compound TM5 in acc. to HD 21.1 resp. VDE 0281 part 1, UL-Class 43 / CSA-90 °C

## Electrical properties

Nominal voltage	U <sub>0</sub> /U in acc. to HAR: 300 / 500 V U in acc. to UL/CSA: 600 V
Test voltage	3000 V AC

## Mechanical and thermal properties

Min. bending radius	occasional flexing: 12,5 x cable diameter fixed installation: 4 x cable diameter
Temperature range	occasional flexing: in acc. to HAR: -5 °C up to +70 °C max. conductor temp. in acc. to UL/CSA: -5 °C up to +90 °C max. conductor temp. fixed installation: in acc. to HAR: -40 °C up to +70 °C max. conductor temp. in acc. to UL/CSA: -40 °C up to +90 °C max. conductor temp.
Flammability	HAR: In acc. with IEC 60332-1-2 resp. VDE 0482-332-1-2 UL: Vertical Flame Test in acc. to UL 1581 § 1061, UL VW-1, CSA: FT1

Originator: R. Krämer / TE-K approved: H. Schillinger / TE-K	Document: DB0015003EN	page 1 of 2
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Oil resistance	acc. to VDE 0473 part 811-2-1, UL 1581 Class 43, CSA: C22.2 No. 210-05
Tests	acc. to IEC 60811 resp. VDE 0473 and VDE 0472
Approvals	UL AWM Style 21098 or 2587 (File No. E 63634) CSA AWM I A/B II A/B (File No. LL 53776) up to 61 cores: acc. to H05VV5-F in acc. to HD 21.13S1 resp. VDE 0281-13 > 61 cores: based on HD 21.13S1 resp. VDE 0281-13
Use	HAR: In acc. to HD 516S1 resp. VDE 0298 part 300, UL: PVC-sheathed cables for external interconnection or internal wiring of electric and electronic equipment. Use when getting in contact with oil not above +60 °C (60 °C oil rating). CSA AWM I A/B II A/B. Cables for internal or external interconnection with or without mechanical load.
EC directive	This cable is conform to ECD 2006/95/EC (Low Voltage Directive).

Originator: R. Krämer / TE-K approved: H. Schillinger / TE-K	Document: DB0015003EN	page 2 of 2
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