


1120730	<b>DATA SHEET</b>	
valid from: 01.01.2019	<b>ÖLFLEX® CLASSIC 110 LT</b>	

## Application

ÖLFLEX® CLASSIC 110 LT are cold flexible 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 conditions. If using outdoors, observe the indicated temperature range and use with UV protection. They are largely resistant to acids, alkalis and certain oils at room temperature.

ÖLFLEX® CLASSIC 110 LT cables are suitable for occasional, non-automated movements, even at low temperatures. They meet the requirements for slow rotational movements, such as in the loop of a wind turbine. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range:

plant engineering and construction, industrial machinery, air conditioning installations, freezing plants and cold stores.

The cables are suitable for torsion application in wind turbines (WTG). The torsional load is limited to applications, as they typically occur in the loop of a wind turbine.

## Design

Design	based on 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	PVC compound T12 acc. to EN 50363-3 resp. VDE 0207-363-3, with increased requirements
Core identification code	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
Stranding	cores are stranded in layers
Outer sheath	PVC compound TM4 acc. to EN 50363-4-1 resp. VDE 0207-363-4-1 colour: black, similar RAL 9005

## Electrical properties at 20°C

Rated voltage	U <sub>0</sub> / U: 300 / 500 V
Test voltage	core / core: 4000 V AC

## Mechanical and thermal properties

Minimum bending radius	occasional flexing: 15 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing: -30°C up to +70°C max. conductor temp. fixed installation: -40°C up to +80°C max. conductor temp.
Torsional stress	in WTG: TW-0 (5000 cycles at ≥ +5°C) TW-2 (2000 cycles at ≥ -40°C) ± 150° / m at 1 revolution per minute
Flammability	flame retardant acc. to IEC 60332-1-2 resp. VDE 0482-332-1-2
UV resistance	acc. to EN 50525-1 (VDE 0285-525-1) cable with black sheath are suitable for permanent outdoor use. UV-resistant acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Tests	acc. to IEC 60811, EN 50395, EN 50396
General requirements	These cables are conform to the EU-Directive 2014/35/EU (Low Voltage Directive).

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## EU DECLARATION OF CONFORMITY

*Document no.:* CE1120730EN-04/08/20

*Manufacturer:* U.I. Lapp GmbH  
Schulze-Delitzsch-Straße 25  
D-70565 Stuttgart  
Germany

*This declaration is issued under the sole responsibility of the manufacturer.*

*Product/ object description:* Power and Control Cable

*Product/ object name:* ÖLFLEX® CLASSIC 110 LT

*The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:* 2014/35/EU

*References to EU harmonised standards:* EN 50525-1:2011  
EN 50525-2-51:2011  
EN 50395:2005/A1:2011  
EN 50396:2005/A1:2011  
EN 60332-1-2:2004/A1:2015

*References to other technical specifications :*

*Notified body involved:*

*Notified body's no.:*

*Notified body's certificate no.:*

*Signed for and on behalf of:*

*Place of issue:*

*Date of issue:*

*Signatory's name:*

*Signatory's title:*

U.I. Lapp GmbH  
Stuttgart  
08/08/2020  
Alexander Terpe  
Head of Product Development Cables

*Signature:*



**LEISTUNGSERKLÄRUNG**  
**Gemäß Anhang III der Verordnung (EU) Nr. 305/2011**  
*Declaration of Performance*  
*According to Annex III of Regulation (EU) no. 305/2011*

Dokument-Nr.  
*Document-no.*

**UILCPRDoP17\_00100004-1\_C**

1. Eindeutiger Kenncode des Produkttyps  
*Unique identification code of the product type*

**OELFLEX\_Y\_300/500V-1**

2. Verwendungszweck  
*Usage*

Kabel und Leitungen für allgemeine Anwendungen in Bauwerken in Bezug auf die Anforderungen an das  
 Brandverhalten  
*Cables for general applications in construction works subject to reaction to fire requirements*

3. Hersteller  
*Manufacturer*

**U.I. Lapp GmbH**  
**Schulze-Delitzsch-Straße 25**  
**D-70565 Stuttgart**

4. System zur Bewertung und Überprüfung der Leistungsbeständigkeit  
*System of assessment and verification of constancy of performance*

**System 3**

5. Harmonisierte Norm  
*Harmonised standard*

**EN 50575:2014 + A1:2016**

6. Produktzertifizierungsstelle  
*Product certification body*

**No. 0366**

7. Erklärte Leistung  
*Declared Performance*

<i>Wesentliche Merkmale</i> <i>Essential characteristics</i>	<i>Leistung</i> <i>Performance</i>	<i>Harmonisierte technische Spezifikation</i> <i>Harmonized technical standard</i>
<i>Brandverhalten</i> <i>Reaction to fire</i>	<b>Eca</b>	<b>EN 50575:2014 + A1:2016</b>
<i>Gefährliche Stoffe</i> <i>Hazardous substances</i>	<b>NPD</b>	

8. Die Leistung des in Nummer 1 genannten Produkts ist in Übereinstimmung mit der erklärten Leistung in Punkt 7.  
*The performance of the referred product in paragraphs 1 is in conformity with the declared performance in Section 7.*

Diese Leistungserklärung ist ausgestellt unter der allgemeinen Verantwortung des unter Punkt 3 genannten Herstellers.  
*This declaration of performance is issued under the general responsibilities listed in section 3. Manufacturer.*

Unterszeichnet für und im Namen des Herstellers von:  
*Signed for and in name of the manufacturer by:*

Stuttgart, 12.05.2021  
 U.I.Lapp GmbH  
 Leiter Kabelentwicklung  
*Head of Cable Development*

  
 i.V. Alexander Terpe

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**Registergericht**  
 Stuttgart HRB 12720

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 Boris Katic, Lutz Grotebrune

**Vorsitzende des Aufsichtsrats**  
 Andreas Lapp

**Niederlassung**  
 Hannover

**Ein Unternehmen der Lapp Gruppe**

Lapp Insulator ist kein  
 Unternehmen der Lapp Gruppe