


1311802	DATA SHEET	
valid from: 14.09.2022	ÖLFLEX® 409 P	

Application

ÖLFLEX® 409 P cables are control cables for the European and North American market for occasional flexible use and fixed installation subject to normal mechanical load conditions. They are also suitable for use in dry, damp or wet areas. They are suitable for outdoor use if the indicated temperature range is observed. ÖLFLEX® 409 P are increased resistant to oils and at room temperature largely resistant to acids and alkalis. The outer sheath withstands high mechanical stresses, in particular abrasion and dragging. It is also cut proof and resists microbes and hydrolysis. They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

Application range:

Appliance and apparatus construction, industrial machinery and machine tools, measurement, control and electrical applications, very suitable for oily wet areas within machinery and production lines

USE according to RU: PUR sheathed cables for external interconnection of electronic equipment

USE according to cRUus: Cables for internal and external interconnection with or without mechanical use

Design

Design	acc. to UL 758; Style 11009 and 20234, C22.2 No. 210-15 based on EN 50525-1
Certification	RU AWM Style 11009 and 20234 (File No. E63634) cRUus AWM I A/B, II A/B (File No. E63634)
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228, class 5
Insulation	PVC compound (UL/CSA 80°C rating)
Core identification code	acc. to VDE 0293-1, with or without GN/YE ground conductor black cores with white numbers acc. to EN 50334
Outer sheath	two layer design: Inner layer: PVC compound (UL/CSA 80°C rating), colour: silver grey, similar RAL 7001 Outer layer: TPU Polyurethane compound (UL/CSA 80°C Rating) colour: black, similar RAL 9005

Electrical properties at 20 °C

Nominal voltage	IEC U ₀ /U: 300/500 V UL/CSA: 1000 V
Test voltage	4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 12.5 x outer diameter fixed installation: 4 x outer diameter
Temperature range	occasional flexing (IEC): -5 °C up to +70 °C max. conductor temp. occasional flexing (UL/CSA): -5 °C up to +80 °C max. conductor temp. fixed installation (IEC): -40 °C up to +70 °C max. conductor temp. fixed installation (UL/CSA): up to +80 °C max. conductor temp.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2 UL: Vertical flame test VW-1; CSA: FT1
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2-2013, method A (change of colour allowed)
Oil resistance	acc. to EN 50363-10-2

Tests acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396, UL AWM 758, UL 1581 and CSA C22.2

General requirements These cables conform to the EU-Directive 2014/35/EU (Low Voltage Directive)

Environmental information These cables meet the substance-specific requirements of the EU Directive 2011/65/EU (RoHS).

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