

4600023	DATA SHEET	
valid from: 01.07.2026	ÖLFLEX® STATIC CY black	

Application

ÖLFLEX® STATIC CY black cables are low-cost, double-insulated single cores for fixed installation and occasional flexible use indoors and outdoors. They are among others designed for use in dry and damp rooms subject to slight mechanical load conditions.

Outdoor use is possible only within the indicated operating temperature range. Due to the double insulation, no additional protection such as a closed cable duct or protective conduit is required in free installation. The screen is a protection against electrical interference, thereby the high degree of the coverage offers very good EMC performance.

Application range:

Especially suitable for power circuits as external connection or for internal wiring of electric and electronic equipment, in the photovoltaic sector e.g. indoors as connection to the inverter.

Design

Design	based on EN 50525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN IEC 60228, Class 5
Insulation	PVC compound TI2 acc. to EN 50363-3 with increased requirements acc. to Lapp specification
Core identification code	black
Wrapping	fleece tape or plastic foil
Screen	braid of tinned copper, coverage = 85 % (nominal value)
Outer sheath	PVC compound TM2 acc. to EN 50363-4-1 with increased requirements colour: black, similar RAL 9005

Electrical properties at 20 °C

Specific volume resistivity	> 20 G Ω x cm
Transfer impedance	max. 250 m Ω /m (at 30 MHz)
Nominal voltage	EN U ₀ /U: 600/1000V
Test voltage	core / core: 4000 V AC core / screen: 4000 V AC

Mechanical and thermal properties

Minimum bending radius	occasional flexing: 12.5 x outer diameter fixed installation: 6 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.
Flammability	flame retardant acc. to IEC 60332-1-2 resp. EN 60332-1-2
UV resistance	acc. to EN 50618 acc. to EN 50620 acc. to EN ISO 4892-2, method A (change of colour allowed)
Oil resistance	acc. to EN 50290-2-22, TM54

Tests	acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396
General requirements	These cables are 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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