

0035700	<b>DATA SHEET</b>	
valid from: 01.10.2022	<b>H05VVC4V5-K</b> former ÖLFLEX® 140 CY	

## Application

H05VVC4V5-K cables are oil resistant power and control cables for occasional flexible use and fixed installation for medium abuse. They are also suitable for use in dry, damp or wet areas.

Temporary and time-limited outdoor use is possible if the indicated temperature range is observed.

H05VVC4V5-K cables are increased resistant to oils and at room temperature largely resistant to acids and alkalis. They are suitable for occasional, non-automated movements. The maximum tensile load is 15 N/mm<sup>2</sup> of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

The screening braid protects against interference from electrical fields.

Application range:

Plant engineering, industrial machinery, heating and air conditioning systems, machine tools.

## Design

Design	H05VVC4V5-F acc. to EN 50525-2-51
Certification	<HAR> H05VVC4V5-F acc. to EN 50525-2-51
Conductor	fine wire strands of bare copper, acc. to IEC 60228 resp. EN 60228 Class 5
Insulation	PVC compound TI2 acc. to EN 50363-3
Core identification code	acc. to VDE 0293-1, with GN/YE ground conductor, black cores with white numbers acc. to EN 50334
Inner sheath	PVC compound TM2 acc. to DIN EN 50363-4-1 Colour: Silver grey, similar RAL 7001
Screen	Braid of tinned copper, coverage = 85% (nominal value)
Outer sheath	PVC compound TM5 acc. to DIN EN 50363-4-1 Colour: Silver grey, similar RAL 7001

## Electrical properties at 20 °C

Nominal voltage	300 / 500 V
Test voltage	core/core: 2000 V AC core/screen: 2000 V AC

## Mechanical and thermal properties

Minimum bending radius	acc. to EN 50565-1 Outer diameter: ≤12 mm fixed installation: 3 x outer diameter for flexible use: 5 x outer diameter Outer diameter: >12 mm fixed installation: 4 x outer diameter for flexible use: 6 x outer diameter
Temperature range	occasional flexing: - 5 °C up to +70 °C max. conductor temp. fixed installation: - 40 °C up to +70 °C max. conductor temp.  acc. to EN 50565-2 highest permissible short-circuit temperature on the conductor: +150 °C highest temperature at the cable surface: +50 °C highest temperature during storage: +40 °C lowest ambient temperature during installation and handling: +5 °C
Flammability	acc. to IEC 60332-1-2 resp. EN 60332-1-2
Oil resistance	TM5 acc. to EN 50363-4-1

## Tests

acc. to IEC 60811 resp. EN 60811, EN 50395, EN 50396

## 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).

## Note

Trade product, no Lapp product

AbN  
automation

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