Application

H05VV5-F 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.
H05VV5-F 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/mm² of conductor cross-section during installation and operation. Compulsory guidance is not permitted.

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

Design

Design	H05VV5-F acc. to EN 50525-2-51
Certification	⊲HAR⊳ H05VV5-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
Outer sheath	PVC compound TM5 acc. to EN 50363-4-1 Colour: Siver grey, similar RAL 7001

Electrical properties at 20 °C

Nominal voltage	300 / 500 V
Test voltage	core/core: 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 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).
Note	Trade product, no Lapp product