Caledonian

Industrial Cables (German Standard)

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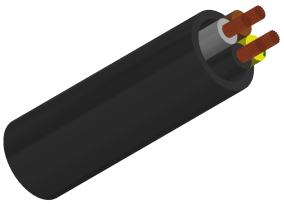
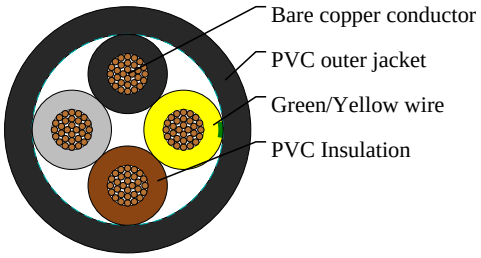
H05VV-F





APPLICATIONS

These cables are suited for medium mechanical stress in damp and wet environments such as refrigerators, washing machines, spin dryers and other appliances, as long as it meets applicable equipment specifications. These cables are also suited for cooking and heating apparatus, provided that the cable does not come into direct contact with the hot parts of the apparatus or with any other heat source. Further applications of this cable include: Fixed installation in furniture, partition walls, decorative covering, and in the hollow spaces of prefabricated building parts. They are not suitable for outdoor use, industrial (except clothing manufacture) or farming applications. Max operating voltage in single or three phase system is Uo/U 318/550 volts. In a direct system, max operating voltage is Uo/U 413/825 volts.

STANDARDS

VDE 0281
CENELEC HD 21.5
BS 6500

VOLTAGE RATING

300/500V

CABLE CONSTRUCTION

- Bare copper fine wire conductor
- Stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5, IEC 60228 cl. 5 and HD 383
- PVC core insulation T12 to VDE-0281 Part 1
- Green-yellow grounding (3 conductors and above)
- PVC outer jacket TM2

COLOUR CODE

Insulation Colour Code
Colour coded to VDE 0293-308
4 cores (G) - Green-Yellow + Brown + Black + Grey

PHYSICAL AND THERMAL PROPERTIES

- Test voltage: 2000 volts
- Flexing bending radius: 7.5 x Ø

- Static bending radius: 4 x Ø
- Flexing temperature: -5º C to +70º C
- Static temperature: -40º C to +70º C
- Short circuit temperature: +160º C
- Flame retardant: IEC 60332.1
- Insulation resistance: 20 MΩ x km

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	AWG Size	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx. Overall Diameter	Nominal Copper Weight	Approx. Weight
No.×mm²		mm	mm	mm	kg/km	kg/km
4x1.50	16(30/30)	0.7	1.0	9.2	58	142