

# Caledonian

# FIREGUARD Flame Retardant Power & Control Cables

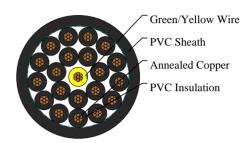
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## 600/1000V PVCInsulated, PVC Sheathed, Unarmoured Power Cables (21 Cores)

FGD400 1VV-R 21C1.5 (CU/PVC/PVC 600/1000V Class 2)

VDE Code: NYY





#### **APPLICATIONS**

The cables are mainly use in fixed installations in industrial areas, buildings and similar applications but not for burial in the ground, either directly or in ducts.

#### **STANDARDS**

Basic design to IEC 60502-1

#### FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)   IEC 60332-1
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#### **VOLTAGE RATING**

600/1000V

#### CABLE CONSTRUCTION

Conductor: Annealed copper wire, stranded according to BS EN 60228 class 2.

Insulation: PVC/A according to IEC 60502-1.

Inner Covering Option: Extruded PVC or polymeric compound.

Outer Sheath: Extruded PVC Type ST1/ST2 according to IEC 60502-1.

Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be offered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3,UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design.LSPVC can also be provided upon request.

#### **COLOUR CODE**

Insulation Colour:

Multicores: Black, green-and-yellow

Note: Depending on their intended use, the cables might be subject to the core colour requirements specified in

BS 7671 or other standards, or in statutory requirements.

Sheath Colour: Black, other colours can be offered upon request

PHYSICAL AND THERMAL PROPERTIES



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Maximum temperature range during operation (PVC): 70°C

Maximum short circuit temperature (5 Seconds): Conductor cross-section <=300 mm2:160°C Conductor cross-section >300 mm2:140°C Minimum bending radius: 12 x Overall Diameter

## **Electrical Properties**

Conductor Operating Temperature: 70°C

Ambient Temperature: 30°C

#### **DIMENSION AND PARAMETERS**

No. of Cores  × Cross- sectional Area	Conductor Class	Nominal Insulation Thickness	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
No.×mm²		mm	mm	mm	kg/km
21x1.5	2	0.8	1.8	19.5	676

## Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4D2A

Conductor Cross- sectional Area	Ref. Method A One 2C cable, 1-phase a.c. or d.c.	Ref. Method A One 3C or 4C cable, 3- phase a.c.	Ref. Method B One 2C cable, 1-phase a.c. or d.c.	Ref. Method B One 3C or 4C cable, 3- phase a.c.	Ref. Method C One 1C cable, 1-phase a.c. or d.c.	Ref. Method C One 3C or 4C cable, 3- phase a.c.	Ref. Method G One 2C cable, 1-phase a.c. or d.c.	Ref. Method G One 3C or 4C cable, 3-phase a.c
mm²	А	Α	Α	Α	Α	А	А	А
1.5	14	13	16.5	15	19.5	17.5	22	18.5

## Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4D2B

Conductor Cross-sectional Area	2C cable, d.c.	2C cable, 1-phase a.c.	3C or 4C cable, 3-phase a.c.
mm²	mV/A/m	mV/A/m	mV/A/m
1.5	29	29	25



Rated voltage

