

# Caledonian

# FIREGUARD Flame Retardant Power & Control Cables

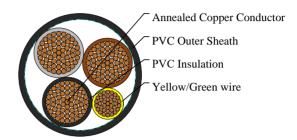
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### 600/1000V PVC Insulated, PVC Sheathed, Unarmoured Power Cables (3+1 Cores)

FGD400 1VV-R 3C300+1G150 (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 adapted to IEC 60502-1

#### FIRE PERFORMANCE

Flame Retardance (Single vertical wire or cable test)

IEC 60332-1

#### **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:

3+1 Cores: Brown, black, grey, 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 Insulation Thickness (Earth)	Nominal Sheath Thickness	Nom. Overall Diameter	Approx. Weight
No.×mm²		mm	mm	mm	mm	kg/km
3x300/150	2	1.8	1.6	3.1	64.5	11714

## 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	Α	А	Α	Α	А	А	А	А
300	334	298	394	339	530	464	593	497

## 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	
300	0.145	r:0.155 x:0.145 z:0.21	r:0.135 x:0.13 z:0.185	







