



# Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

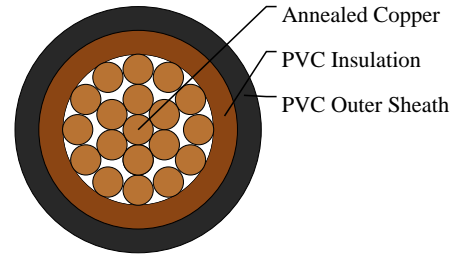
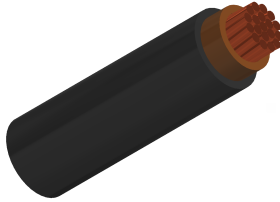
www.caledonian-cables.co.uk

sales@caledonian-cables.co.uk

### 600/1000V PVC Insulated, PVC Sheathed, Unarmoured Power Cables to IEC 60502 (Single Core)

FGD300 1VV-R (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

### APPROVALS

TUV Certification (B 098200 0031 Rev.00)

### FIRE PERFORMANCE

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

600/1000V

### CABLE CONSTRUCTION

Conductor: Plain annealed copper, stranded according to IEC 60228 class 2.

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

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: Brown or blue, other colours can be offered upon request.

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

### PHYSICAL AND THERMAL PROPERTIES



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Maximum temperature range during operation: 70°C

Maximum short circuit temperature (5 Seconds):

Conductor cross-section #300 mm<sup>2</sup>

:160°C

Conductor cross-section >300 mm<sup>2</sup>

:140°C

Minimum bending radius:

Circular copper conductor (OD ≤25mm): 4 x Overall Diameter

Circular copper conductor (OD > 25mm): 6 x Overall Diameter

Shaped copper conductor: 8 x Overall Diameter

### DIMENSION AND PARAMETERS

No. of Cores × Cross- sectional Area	Conductor Class	Nominal Insulation Thickness	Nominal Sheath Thickness	Overall Diameter (max.)	Approx. Weight
No. x mm <sup>2</sup>		mm	mm	mm	kg/km
1x50	2	1.4	1.4	13.6	646