



# Caledonian

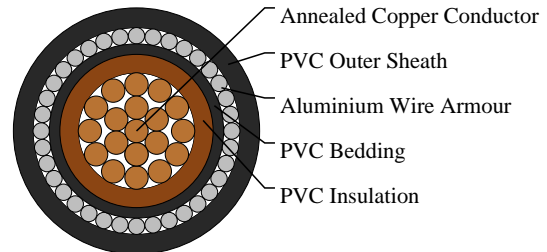
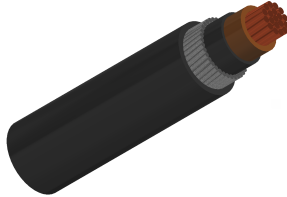
## FIREGUARD Flame Retardant Power & Control Cables

www.caledonian-cables.co.uk

sales@caledonian-cables.co.uk

### 600/1000V PVC Insulated, PVC Sheathed, Armoured Power Cables to BS 6346 (Single Core)

FGD300 1VVMAV-R (CU/PVC/PVC/AWA/PVC 600/1000V Class 2)



### APPLICATIONS

The cables are mainly used in power stations, mass transit underground passenger systems, airports, petrochemical plants, hotels, hospitals, and high-rise buildings.

### STANDARDS

Basic design to BS 6346

### FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	BS EN 50265-2-1
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### VOLTAGE RATING

600/1000V

### CABLE CONSTRUCTION

Conductor: Annealed copper wire, stranded according to BS 6360 class 2.

Insulation: PVC TI 1 according to BS 7655-3.1.

Bedding: PVC.

Armouring: Aluminium wire

Outer Sheath: PVC TM 1 according to BS 7655-4.1.

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

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

### PHYSICAL AND THERMAL PROPERTIES

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

Maximum short circuit temperature (5 Seconds): 160°C



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Minimum bending radius:

Circular copper conductors: 6 x Overall Diameter

Shaped copper conductors: 8 x Overall Diameter

### DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Conductor Class	Nominal Insulation Thickness	Nominal Bedding Thickness	Nominal Sheath Thickness	Nominal Aluminum Wire Armour Diameter	Overall Diameter (max.)	Approx. Weight
No. x mm <sup>2</sup>		mm	mm	mm	mm	mm	kg/km
1x50	2	1.4	0.8	1.5	1.25	19.1	820



Rated voltage



BS 6346



Flame Retardancy  
BS EN 50265-2-1