



# Caledonian

FIREGUARD Flame Retardant Power & Control Cables

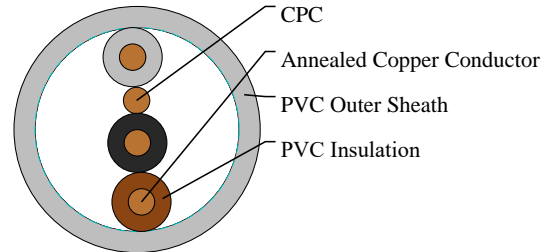
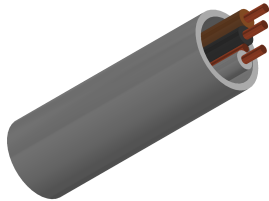
www.caledonian-cables.com

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## 300/500V PVC Insulated, PVC Sheathed, Twin & Earth Cables (3 Cores)

FGD200-E 05VV-U 3C1 (CU/PVC/PVC 300/500V Class 1)

BS Code: 6243Y



### APPLICATIONS

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

### STANDARDS

Basic design to BS 6004:2012

### APPROVALS

TUV Certification (B 098200 0028 Rev.00)

### FIRE PERFORMANCE

Flame Retardance (Single vertical wire or cable test)	BS EN 60332-1-2
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### VOLTAGE RATING

300/500V

### CABLE CONSTRUCTION

Conductor: Annealed copper conductor, class 1 according to BS EN 60228.

Insulation: PVC Type TI 1 according to BS EN 50363-3.

Circuit Protective Conductor (CPC): Annealed plain copper (class 1).

Position of CPC: Centrally placed between cores in same plane.

Outer Sheath: PVC Type 6 according to BS 7655-4.2.

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, black (centre core), and grey.

Sheath Colour: Grey; other colours can be offered upon request.



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## PHYSICAL AND THERMAL PROPERTIES

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

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

Minimum bending radius: 6 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	Cross- sectional Area of CPC	Class of CPC	Nominal Sheath Thickness	Overall Diameter (max.)	Approx. Weight
No. × mm <sup>2</sup>		mm	mm <sup>2</sup>		mm	mm	kg/km
3x1	1	0.6	1	1	0.9	4.8x11.4	91



Rated voltage



BS 6004



Flame Retardancy  
BS/EN/IEC 60332-1-2