



Caledonian

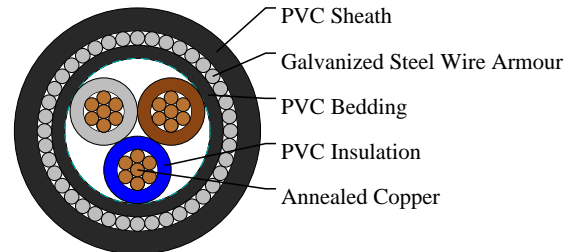
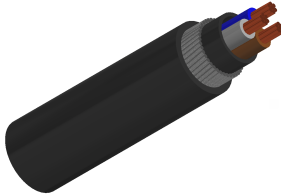
FIREGUARD Flame Retardant Power & Control Cables

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600/1000V PVC Insulated, PVC Sheathed, Armoured Power Cables to BS 6346 (3Cores)

FGD400 1VVMV-R (CU/PVC/PVC/SWA/PVC 600/1000V Class 2)



APPLICATIONS

The cables are intended for use in fixed installations in industrial areas, buildings and similar applications.

STANDARDS

Basic design to BS 6346

FIRE PERFORMANCE

| | |
|----------------------------------------------|-----------------|
| Flame Retardance (Single Vertical Wire Test) | BS EN 50265-2-1 |
|----------------------------------------------|-----------------|

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: Extruded PVC or taped bedding comprising two or more layers of PVC tape or other synthetic tape (for cables having a nominal conductor area of 16mm² and above).

Armouring: Galvanized steel 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, blue#grey.

Sheath Colour: Black (other colours 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

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 Bedding Thickness | Nominal Sheath Thickness | Nominal Steel Wire Armour Diameter | Approx. Overall Diameter (Taped Bedding) | Approx. Weight |
|-----------------------------------------------|--------------------|------------------------------------|---------------------------------|--------------------------------|---------------------------------------------|------------------------------------------------------|-------------------|
| No. x mm ² | | mm | mm | mm | mm | mm | kg/km |
| 3x4 | 2 | 0.8 | 0.8 | 1.4 | 0.9 | -- | 510 |