



Caledonian

FIREGUARD Flame Retardant Power & Control Cables

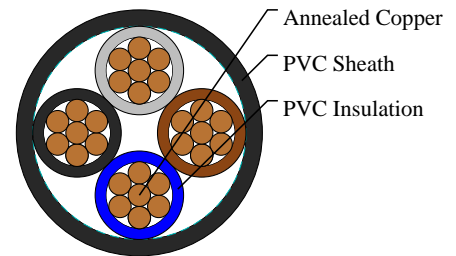
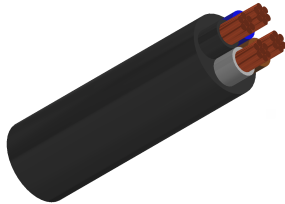
www.caledonian-cables.com

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600/1000V PVC Insulated, PVC Sheathed, Unarmoured Power Cables to IEC 60502 (2-5 Cores & Multicore)

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

VDE Code: NYY



APPLICATIONS

The cables are mainly used 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

FIRE PERFORMANCE

| | |
|--|-------------|
| Flame Retardance (Single Vertical Wire 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:

Two-core: Brown, blue

Three-core: Brown, black, grey. Alternatively, green-and-yellow, blue, brown

Four-core: Blue, brown, black, grey. Alternatively, green-and-yellow, brown, black, grey

Five-core: Green-and-yellow, blue, brown, black, grey



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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

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

Maximum short circuit temperature (5 Seconds):

Conductor cross-section $\leq 300 \text{ mm}^2$: 160°C

Conductor cross-section $> 300 \text{ mm}^2$: 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 Sheath Thickness | Approx. Overall Diameter | Approx. Weight |
|--|-----------------|------------------------------|--------------------------|--------------------------|----------------|
| No. x mm ² | | mm | mm | mm | kg/km |
| 4x35 | 2 | 1.2 | 1.8 | 25.6 | 1824 |



Rated voltage



Flame Retardancy
IEC 60332-1



IEC60502-1