



# Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

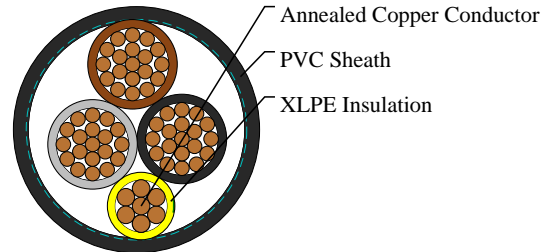
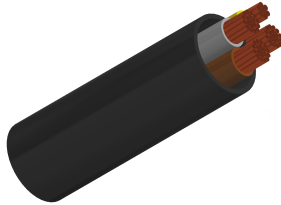
www.caledonian-cables.com

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### 600/1000V XLPE Insulated, PVC Sheathed, Unarmoured Power Cables to IEC 60502 (3Cores )

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

VDE Code: N2XY



### 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 adapted to IEC 60502-1

### APPROVALS

TUV Certification (Z1 17 01 98200 004)

### 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: XLPE 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



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

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

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

#### Physical AND THERMAL PROPERTIES

Maximum temperature range during operation: 80°C (For ST1 Sheath); 90°C (For ST2 Sheath)

Maximum short circuit temperature (5 Seconds): 250°C

Minimum bending radius: 12 x Overall Diameter

### Electrical Properties

Conductor Operating Temperature: 90°C

Ambient Temperature: 30°C

### DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-<br>sectional Area | Conductor<br>Class | Nominal<br>Insulation<br>Thickness | Nominal<br>Insulation<br>Thickness<br>(Earth) | Nominal<br>Sheath<br>Thickness | Overall<br>Diameter<br>(max.) | Approx.<br>Weight |
|--|--------------------|------------------------------------|---|--------------------------------|-------------------------------|-------------------|
| No. x mm <sup>2</sup>                      |                    | mm                                 | mm  | mm                             | mm                            | kg/km             |
| 3x50/25                                    | 2                  | 1.0                                | 0.9   | 1.8                            | 27.5                          | 1890              |



Rated voltage



Flame Retardant  
IEC 60332-1



IEC60502-1