



# Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

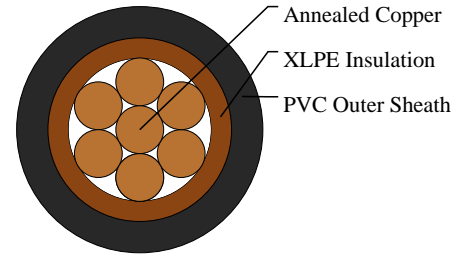
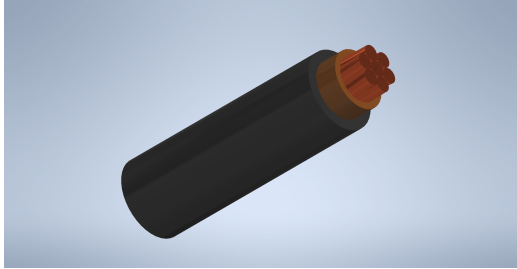
www.caledonian-cables.co.uk

sales@caledonian-cables.co.uk

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

FGD300 1RV-R (CU/XLPE/PVC 600/1000V Class 2)

VDE Code: N2XY



### APPLICATIONS

The cables are mainly use in fixed installations in industrial areas, buildings and similar applications but not for burial in the ground, either directly or in ducts. This product type is TUV approved.

### STANDARDS

Basic design 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: Plain annealed copper, stranded according to IEC 60228 class 2.

Insulation: XLPE according to IEC 60502-1.

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: Brown or blue, other colours can be offered upon request.

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

### PHYSICAL AND THERMAL PROPERTIES



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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:

Circular copper conductor (OD <=25mm): 4 x Overall Diameter

Circular copper conductor (OD >25mm): 6 x Overall Diameter

Shaped copper conductor: 8 x Overall Diameter

### DIMENSION AND PARAMETERS

| No. of Cores<br>× Cross-sectional Area | Conductor Class | Nominal Insulation Thickness | Nominal Sheath Thickness | Overall Diameter (max.) | Approx. Weight |
|--|-----------------|------------------------------|--------------------------|-------------------------|----------------|
| No.xmm <sup>2</sup>                    |                 | mm                           | mm                       | mm                      | kg/km          |
| 1x4                                    | 2               | 0.9                          | 1.4                      | 12.5                    | 340            |



Rated voltage



BS 7889



Flame Retardancy  
IEC 60332-1-2