



# Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

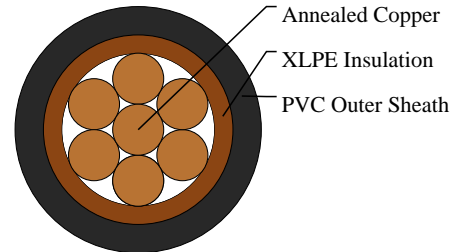
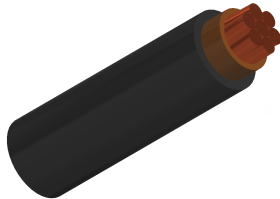
www.caledonian-cables.co.uk

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### 600/1000V XLPE Insulated, PVC Sheathed, Unarmoured Power Cables to BS 7889 (Single Core)

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

BS Code: 6181X



### APPLICATIONS

#### APPLICATION

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. This product type is TUV approved.

### STANDARDS

Basic design to BS 7889:2012

### APPROVALS

TUV Certification (Z1 17 08 98200 008)

### FIRE PERFORMANCE

|  |                 |
|--|-----------------|
| Flame Retardance (Single Vertical Wire Test) | BS EN 60332-1-2 |
|--|-----------------|

### VOLTAGE RATING

600/1000V

### CABLE CONSTRUCTION

Conductor: Annealed copper wire, stranded according to BS EN 60228 class 2.

Insulation: XLPE type GP8 according to BS 7655-1.3.

Inner Covering Option: The optional inner covering, where used, shall consist of an extruded layer of synthetic polymeric material. It shall surround the single core and the laid-up two, three, four or five cores, giving the assembly a practically circular shape.

Outer Sheath: PVC Type 9 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



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Insulation Colour: Brown or blue

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

### PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (XLPE): 90°C

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. x mm <sup>2</sup>                  |                 | mm                           | mm                       | mm                      | kg/km          |
| 1x35                                   | 2               | 0.9                          | 1.4                      | 13.5                    | 440            |



Rated voltage



BS 7889



Flame Retardancy  
IEC 60332-1-2