



# Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

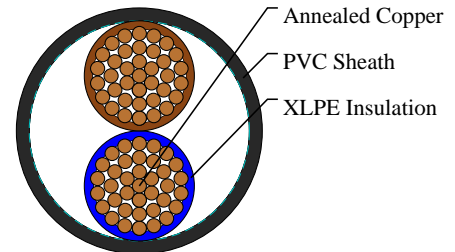
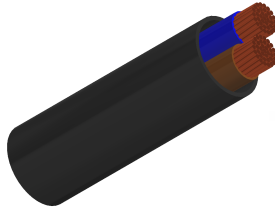
www.caledonian-cables.com

marketing@caledonian-cables.com

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

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

VDE Code: N2XY



### 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 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.

Filling: If necessary, the formation of a compact and reasonably circular cable shall be achieved by one of the following methods.

- The application of synthetic fillers or binder tape(s).
- The optional inner covering.
- The sheath provided it effectively fills the interstices.
- Any combination of the above.

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.



# Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

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

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 (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

### Electrical Properties

Conductor Operating Temperature: 90°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. xmm <sup>2</sup>		mm	mm	mm	kg/km
2x185	2	1.6	2.3	41.6	4329



Rated voltage



BS 7889



Flame Retardancy  
EN 60332-1-2