



**Caledonian**

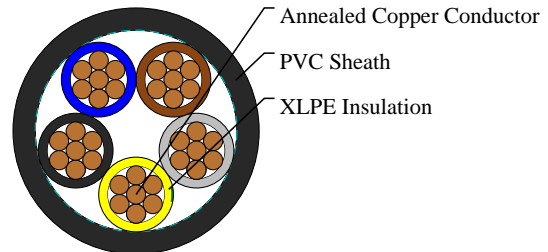
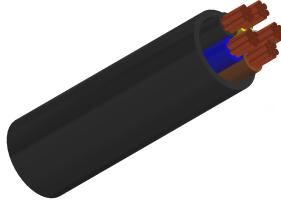
**FIREGUARD Flame Retardant Power & Control Cables**

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## **600/1000V XLPE Insulated, PVC Sheathed, Unarmoured Power Cables to BS 7889 (2-5 Cores)**

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



### **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.

### **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
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### **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.

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,



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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	Overall Diameter (max.)	Nominal Copper Weight
No. x mm <sup>2</sup>		mm	mm	mm	kg/km
5x16	2	0.7	1.8	21.2	1059



Rated voltage



BS 7889



Flame Retardancy  
BS/EN/IEC 60332-1-2