



**Caledonian**

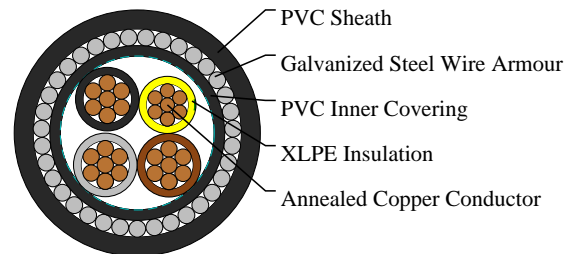
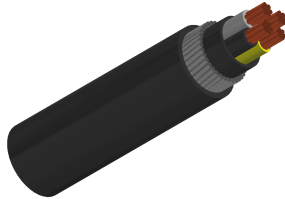
**FIREGUARD Flame Retardant Power & Control Cables**

www.caledonian-cables.co.uk

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

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



### **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

### **FIRE PERFORMANCE**

Flame Retardance (Single Vertical Wire Test)	IEC 60332-1
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### **VOLTAGE RATING**

600/1000V

### **CABLE CONSTRUCTION**

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

Insulation: XLPE according to IEC 60502-1.

Inner Covering: Extruded PVC or polymeric compound.

Armouring: Galvanized steel wire

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, black, grey.

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

### **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



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Minimum bending radius: 12 x Overall Diameter

### Electrical Properties

Conductor Operating Temperature: 90°C

Ambient Temperature: 30°C

### DIMENSION AND PARAMETERS

No. of Cores x Cross-sectional Area	Conductor Class	Nominal Insulation Thickness	Nominal Insulation Thickness (Earth)	Nominal Bedding Thickness	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter	Overall Diameter (max.)	Approx. Weight
No.xmm <sup>2</sup>		mm	mm	mm	mm	mm	mm	kg/km
3x16/10	2	0.7	0.7	1.0	1.6	1.8	20.8	1013



Rated voltage



Flame Retardancy  
IEC 60332-1



IEC60502-1