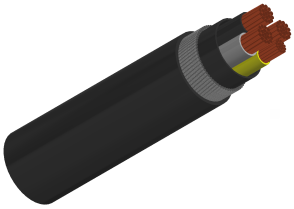
Caledonian

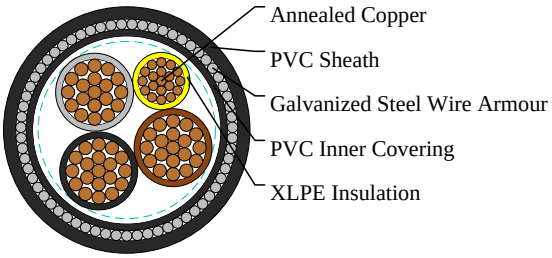
FIREGUARD Flame Retardant Power & Control Cables

www.caledonian-cables.co.uk sales@caledonian-cables.co.uk

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

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 termiteproperties can be offered as option. Compliance to fireperformance 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
Minimum bending radius: 12 x Overall Diameter

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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 Bedding Thickness	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter	Overall Diameter (max.)	Approx. Weight
No.×mm²		mm	mm	mm	mm	mm	kg/km
3x95/50	2	1.1	1.2	2.3	2.0	42.4	6179

Rated voltage

Flame Retardancy
IEC 60332-1

IEC60502-1