



Caledonian

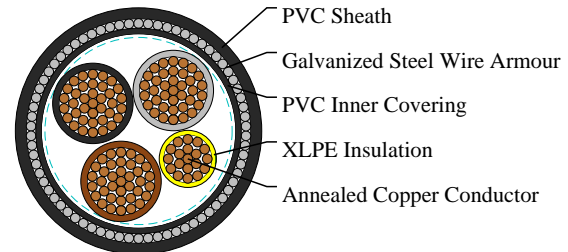
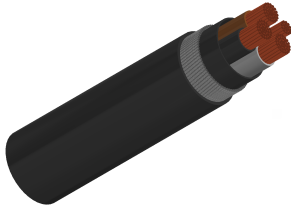
FIREGUARD Flame Retardant Power & Control Cables

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 |
|--|-------------|

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. x mm ² | | mm | mm | mm | mm | mm | mm | kg/km |
| 3x185/95 | 2 | 1.6 | 1.1 | 1.4 | 2.8 | 2.5 | 57.2 | 13172 |



Rated voltage



Flame Retardancy
IEC 60332-1



IEC60502-1