Caledonian

FIREGUARD Flame Retardant Power & Control Cables

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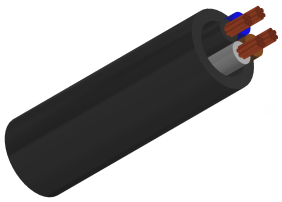
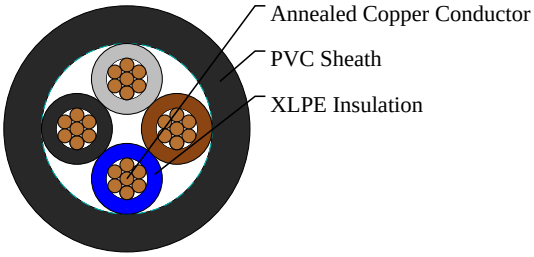
600/1000V XLPE Insulated, PVC Sheathed,Unarmoured Power Cables to IEC 60502 (2-5 Cores & Multicore)

FGD400 1RV-R (CU/XLPE/PVC 600/1000V Class 2)
VDE Code: N2XY





APPLICATIONS

The cables are mainly used in 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

APPROVALS

TUV Certification (Z1 17 01 98200 004)

FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	IEC 60332-1

VOLTAGE RATING

600/1000V

CABLE CONSTRUCTION

Conductor: Annealed copper wire, stranded according to BS EN 60228 class 2.
Insulation: XLPE according to IEC 60502-1.
Inner Covering Option: Extruded PVC or polymeric compound.
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:
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

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

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.)	Approx. Weight
No.×mm²		mm	mm	mm	kg/km
4x2.5	2	0.7	1.8	11.3	220

Rated voltage


Flame Retardant
IEC 60332-1

IEC60502-1