Caledonian

FIREGUARD Flame Retardant Power & Control Cables

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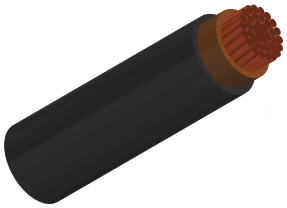
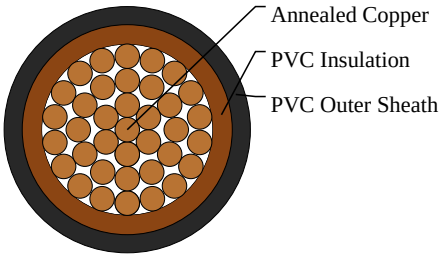
600/1000V PVC Insulated, PVC Sheathed, Unarmoured Power Cables to IEC 60502 (Single Core)

FGD300 1VV-R (CU/PVC/PVC 600/1000V Class 2)
VDE Code: NYY





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 IEC 60502-1

APPROVALS

TUV Certification (B 098200 0031 Rev.00)

FIRE PERFORMANCE

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

VOLTAGE RATING

600/1000V

CABLE CONSTRUCTION

Conductor: Plain annealed copper, stranded according to IEC 60228 class 2.
Insulation: PVC/A according to IEC 60502-1.
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 or blue, other colours can be offered upon request.
Sheath Colour: Black, other colours can be offered upon request.

PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation: 70°C
Maximum short circuit temperature (5 Seconds):
Conductor cross-section #300 mm2
:160°C
Conductor cross-section >300 mm2
:140°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

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
1x120	2	1.6	1.5	18.6	1428