

## Caledonian

## FIREGUARD Flame Retardant Power & Control Cables

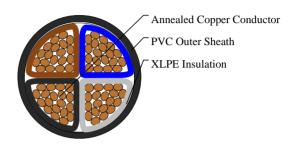
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## 600/1000V XLPE Insulated, PVC Sheathed, Unarmoured Power Cables to IEC 60502 (4 Cores)

FGD400 1RV-R 4C150 (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 or cable test)

IEC 60332-1

#### **VOLTAGE RATING**

600/1000V

#### CABLE CONSTRUCTION

Conductor: Annealed copper wire, sectoral stranded conductors 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:

Four-core: Blue, brown, black, grey. Alternatively, green-and-yellow, brown, black, grey



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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

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	Nom. Overall Diameter	Approx. Weight
No.×mm²		mm	mm	mm	kg/km
4x150S	2	1.4	2.4	44.9	6350

## Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E2A

Conductor Cross- sectional Area	Ref. Method A 2cables, 1-phase a.c. or d.c.	Ref. Method A 3/4 cables, 3-phase a.c.	Ref. Method B 2 cables, 1-phase a.c. or d.c	Ref. Method B 3/4 cables, 3-phase a.c.	Ref. Method C 2 cables, 1-phase a.c. or d.c. flat and touching		Ref. Method E One 2C cable, 1-phase a.c. or d.c.	Ref. Method E One 3C or 4C cable, 3- phase a.c.
mm²	Α	Α	Α	Α	А	А	Α	Α
150	290	259	334	300	441	371	473	399

## Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E2B

Conductor Cross-sectional Area	2C cable, d.c.	2C cable, 1-phase a.c.	3C or 4C cable, 3-phase a.c.	
mm²	mV/A/m	mV/A/m	mV/A/m	
150	0.31	r:0.32 x:0.145 z:0.35	r:0.28 x:0.125 z:0.3	





