

Caledonian

FIREGUARD Flame Retardant Power & Control Cables

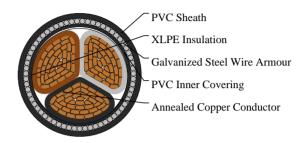
www.caledonian-cables.com marketing@caledonian-cables.com

600/1000V XLPE Insulated, PVC Sheathed, Armoured Power Cables to BS 5467 (3 Cores)

FGD400 1RVMV-R 3C185 (CU/XLPE/PVC/SWA/PVC 600/1000V Class 2)

BS Code: 6943X





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 to BS 5467

APPROVALS

TUV Certification (Z1 17 01 98200 003)

FIRE PERFORMANCE

BS EN 60332-1-2

VOLTAGE RATING

600/1000V

CABLE CONSTRUCTION

Conductor: Annealed copper wire, shaped stranded according to BS EN 60228 class 2.

Insulation: Extruded XLPE GP 8 according to BS 7655-1.3.

Bedding: PVC.

Armouring: Galvanized steel wire

Outer Sheath: PVC Type 9 according to BS 7655-4.2.

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



Caledonian

FIREGUARD Flame Retardant Power & Control Cables

www.caledonian-cables.com marketing@caledonian-cables.com

Three-core: Brown, black, grey Four-core: Blue, brown, black, grey

Five-core: Green-and-yellow, blue, brown, black, grey

Sheath Colour: Black, other colours can be offered upon request.

PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (XLPE): 90°C Maximum short circuit temperature (5 Seconds): 250°C

Minimum bending radius:

Circular copper conductors: 6 x Overall Diameter Shaped copper conductors: 8 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 Thickness of Inner Covering	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter	Approx. Overall Diameter	Approx. Weight
No.×mm²		mm	mm	mm	mm	mm	kg/km
3x185S	2	1.6	1.4	2.4	2.5	49.8	8600

Current-Carrying Capacities (Amp) according to BS7671:2008 table 4E4A

Conductor Cross- sectional Area	Ref. Method C One 1C cable, 1- phase a.c. or d.c.	Ref. Method C One 3C or 4C cable, 3-phase a.c.	Ref. Method D One 2C cable, 1- phase a.c. or d.c.	Ref. Method D One 3C or 4C cable, 3-phase a.c.	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	А	Α	А	А	Α
185	515	441	343	281	539	463

Voltage Drop (Per Amp Per Meter) according to BS7671:2008 table 4E4B

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	
185	0.25	r:0.26 x:0.145 z:0.29	r:0.22 x:0.125 z:0.26	





