

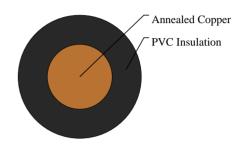
# Caledonian

FIREGUARD Flame Retardant Power & Control Cables www.caledonian-cables.com marketing@caledonian-cables.com

# 450/750V PVC Insulated, Non-sheathed Power Cables (Single Core 90°C)

FGD100 07V2-U 1C2.5 (CU/PVC 450/750V Class 1) BS Code:6491XHR HAR Code:H07V2-U





## **APPLICATIONS**

This 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 CE and TUV approved.

#### STANDARDS

Basic design to BS EN 50525-2-31(formerly BS 6004:2000)

#### **APPROVALS**

CE Certification (N8A 17 07 98200 006) TUV Certification (B 17 07 98200 007)

#### FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	EN 60332-1-2
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#### **VOLTAGE RATING**

450/750V

#### CABLE CONSTRUCTION

Conductor: Class 1 stranded copper conductor to BS EN 60228. Insulation: PVC Type TI 3 according to BS EN 50363-3.

# COLOUR CODE

Black, Blue, Brown, Grey, Orange, Pink, Red, Turquoise, Violet, White, Green and Yellow.

#### PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (PVC): 90°C Maximum short circuit temperature (5 Seconds): 160°C Minimum bending radius: Up to 8mm<sup>2</sup>: 4 x overall diameter



8mm<sup>2</sup> to 12mm<sup>2</sup>: 5 x overall diameter Above 12mm<sup>2</sup>: 6 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	Overall Diameter (max.)	Approx. Weight	
No.×mm <sup>2</sup>		mm	mm	kg/km	
1X2.5	1	0.8	3.9	33	

## Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4E1A

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 C 3/4 cables, 3-phase a.c. flat and touching or trefoil	Ref. Method F 2 cables, 1- phase a.c. or d.c. flat	Ref. Method F 3 cables, 3-phase a.c. flat	Ref. Method F 3 cables, 3-phase a.c. trefoil	Ref. Method G 2 cables, 1- phase a.c. or d.c. or 3 cables 3- phase a.c. Horizontal	Ref. Method G 2 cables, 1- phase a.c. or d.c. or 3 cables 3-phase a.c. Vertical
mm²	А	А	А	А	А	А	А	А	А	А	А
2.5	26	23	31	28	34	31		_	—	—	—

# Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4E1B

Conductor Cross- sectional Area	2 cables d.c.	Ref. Methods A,B 2 cables, 1-phase a.c.	Ref. Methods C,F,G 2 cables, 1-phase a.c. (Cables touching)	Ref. Methods C,F,G 2 cables, 1-phase a.c. (Cables spaced)	Ref. Methods A,B 3 or 4 cables, 3- phase a.c.	Ref. Methods C,F,G 3 or 4 cables, 3-phase a.c. (Cables touching,Trefoil)	Ref. Methods C,F,G 3 or 4 cables, 3-phase a.c. (Cables touching,Flat)	Ref. Methods C,F,G 3 or 4 cables, 3-phase a.c. (Cables spaced,Flat)
mm²	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
2.5	19	19	19	19	16	16	16	16





BS EN 50525-3-31

