

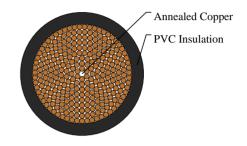
# Caledonian

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

# 600/1000V PVC Insulated, Non-sheathed Flexible Cables (Single Core)

FGD100 1V-K 1C95 (CU/PVC 600/1000V Class 5) BS Code: TYPE BK/TYPE CK(CU/PVC)





# **APPLICATIONS**

The cables are intended for use in the wiring of switch, control, metering, relay and instrument panels of power switchgear, and for such purposes as internal connections in rectifier equipment and its motor starters and controllers.

## STANDARDS

Basic design to BS 6231: 2006

**APPROVALS** 

TUV Certification (Z1 18 01 98200 016)

## FIRE PERFORMANCE

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

600/1000V

## CABLE CONSTRUCTION

Conductor: Annealed copper conductor, class 5 according to BS EN 60228. Insulation: PVC Type TI 1 according to BS EN 50363-3 for cable type BK, and type TI 3 according to BS EN 50363-3 for cable type CK

# COLOUR CODE

Black, Blue, Brown, Red, White, Grey, Violet, Pink, Green and Yellow. Other colours can be offered upon request.

## PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (PVC): 70°C (TYPE BK): 90°C (TYPE CK) Maximum short circuit temperature (5 Seconds): 160°C Minimum bending radius: 6 x overall diameter

#### **Electrical Properties**



Conductor Operating Temperature: 70°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.×mm²		mm	mm	kg/km
1x95	5	1.6	19.2	1055

# Current-Carrying Capacities (Amp) according to BS 7671:2008 table 4D1A

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 F Spaced by on cable diameter 3/4 cables, 3-phase a.c. Horizontal	Ref. Method F Spaced by on cable diameter 3/4 cables, 3-phase a.c. Vertical
mm²	А	А	А	А	А	А	А	А	А	А	А
95	182	164	232	207	284	261	304	275	264	341	311

# Voltage Drop (Per Amp Per Meter) according to BS 7671:2008 table 4D1B

Conductor Cross- sectional Area	2 cables d.c.	Ref. Methods A,B 2 cables, 1-phase a.c.	Ref. Methods C,F 2 cables, 1-phase a.c. (Cables touching)	Ref. Methods C,F 2 cables, 1-phase a.c. (Cables spaced)	Ref. Methods A,B 3 or 4 cables, 3- phase a.c.	Ref. Methods C,F 3 or 4 cables, 3-phase a.c. (Cables touching,Trefoil)	Ref. Methods C,F 3 or 4 cables, 3-phase a.c. (Cables touching,Flat)	Ref. Methods C,F 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
95	0.46	r:0.49 x:0.28 z:0.56	r:0.47 x:0.18 z:0.5	r:0.47 x:0.27 z:0.54	r:0.42 x:0.24 z:0.48	r:0.41 x:0.155 z:0.43	r:0.41 x:0.23 z:0.47	r:0.4 x:0.31 z:0.51



Rated voltage



BS 6231

