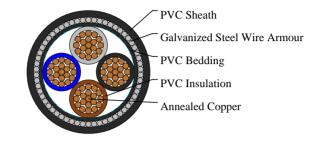


## 600/1000V PVC Insulated, PVC Sheathed, Armoured Power Cables to IEC 60502(4Cores)

FGD400 1VVMV-R 4C70(CU/PVC/PVC/SWA/PVC 600/1000V Class 2)





# **APPLICATIONS**

The cables are mainly used in power stations, mass transit underground passenger systems, airports,petrochemical plants, hotels, hospitals, and high-rise buildings.

### **STANDARDS**

Basic design to IEC60502

### FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)	IEC 60332-1-2

## VOLTAGE RATING

600/1000V

#### CABLE CONSTRUCTION

Conductor: Annealed copper wire, stranded according to IEC 60228 class 2.

Insulation: PVC/A according to IEC 60502-1.

Inner Covering: Extruded PVC or polymeric compound.

Armouring: Galvanized steel wire

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, black ,grey,blue Sheath Colour: Black (other colours upon request)

## PHYSICAL AND THERMAL PROPERTIES

Maximum temperature range during operation (PVC): 70°C Maximum short circuit temperature (5 Seconds): 160°C(<=300 mm<sup>2</sup>); 140°C(>300 mm<sup>2</sup>)



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Minimum bending radius: Circular copper conductors: 6 x Overall Diameter

Shaped copper conductors: 8 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	Nominal Thickness of Inner Covering	Nominal Sheath Thickness	Nominal Steel Wire Armour Diameter	Nom. Overall Diameter	Approx. Weight
No.×mm <sup>2</sup>		mm	mm	mm	mm	mm	kg/km
4x70	2	1.4	1.2	2.3	2.0	40.4	5104

### Current-Carrying Capacities (Amp) according to BS 7671: 2008 table 4D4A

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	А	А	A	A	А	A
70	222	192	173	143	241	207

### Voltage Drop (Per Amp Per Meter) according to BS 7671: 2008 table 4D4B

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	
70	0.63	r:0.63 x:0.16 z:0.65	r:0.55 x:0.14 z:0.57	



Rated voltage



IEC60502-1