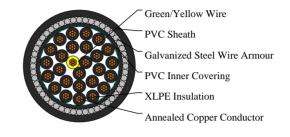


# 600/1000V XLPE Insulated, PVC Sheathed, Armoured Power Cables to IEC 60502 (27 Cores)

FGD400 1RVMV-R 27C2.5 (CU/XLPE/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. 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 Test)	IEC 60332-1
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# **VOLTAGE RATING**

600/1000V

#### CABLE CONSTRUCTION

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

Insulation: XLPE 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 termiteproperties 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:Black,green-and-yellow 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 Bedding Thickness	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
27x2.5	2	0.7	1.0	1.8	1.6	29.8	2033

# 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	A	А	А	А	А	А
2.5	36	31	33	28	39	33

# 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	
2.5	19	19	16	



Rated voltage



IEC60502-1