



# Caledonian

Airport Flame Retardant And Fire Resistant Cables

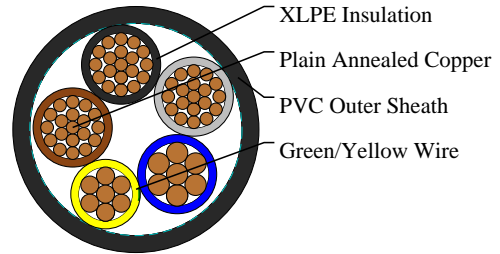
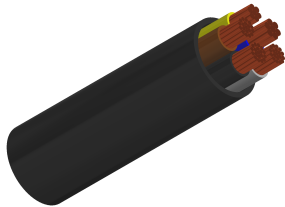
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## 600/1000V XLPE Insulated, PVC Sheathed, Power Cables (4+1 Cores)

FGD400 1RV-R 4G35/25 (CU/XLPE/PVC 600/1000V Class 2)

Outdoor Cabling



### APPLICATIONS

This 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 IEC 60502-1

### FIRE PERFORMANCE

Flame Retardance (Single Vertical Wire Test)(Optional)	EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2);CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1*
Reduced Fire Propagation (Vertically-mounted bundled wires& cable test)(Optional)	EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4

### VOLTAGE RATING

600/1000V

### CABLE CONSTRUCTION

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

Insulation: Extruded cross-linked XLPE compound.

Outer Sheath: Thermoplastic PVC compound.

### COLOUR CODE

Insulation Colour: as per BS7671.

4+1 Cores: Yellow/Green, Brown, Gray, Black, Blue

Sheath Colour: Black (other colors upon request)

### PHYSICAL AND THERMAL PROPERTIES



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Temperature Range During Operation: -40°C ~ 70°C

Temperature Range during Installation : -5°C ~ 50°C

Minimum Bending Radius : 6 x OD

## Electrical Properties

Dielectric Test:3500 V r.m.s. x 5' ( core / core )

Insulation Resistance:500 MΩ x km ( at 20°C )

Short circuit Temperature :250°C ( up to 5 secs )

Conductor Operating Temperature : 90°C

Ambient Temperature : 30°C

## DIMENSION AND PARAMETERS

Caledonian Cable Code	No. of Cores × Cross-sectional Area	No./Nominal Diameter of Strands	Nominal Insulation Thickness	Nom. Overall Diameter	Approx. Weight
	No.×mm <sup>2</sup>	no./mm	mm	mm	kg/km
FGD400 1RV-R 4G35/25	4x35/25	19/1.53	0.9	28.4	1890

## Current-Carrying Capacities (Amp)

Conductor Cross-sectional Area	Ref. Method 4 2cables, 1-phase a.c. or d.c.	Ref. Method 4 3/4 cables, 3-phase a.c.	Ref. Method 3 2cables, 1-phase a.c. or d.c.	Ref. Method 3 3/4 cables, 3-phase a.c.	Ref. Method 1 2 cables, 1-phase a.c. or d.c. flat and touching	Ref. Method 1 3/4 cables, 3-phase a.c. flat and touching or trefoil	Ref. Method 11 2 cables, 1-phase a.c. or d.c. flat and touching	Ref. Method 11 3/4 cables, 3-phase a.c. flat and touching or trefoil	Ref. Method 12 2 cables, 1-phase a.c. or d.c. or 3 cables 3-phase Horizontal	Ref. Method 12 2 cables, 1-phase a.c. or d.c. or 3 cables 3-phase Vertical	Ref. Method 12 3 cables trefoil, 3-phase a.c.
mm <sup>2</sup>	A	A	A	A	A	A	A	A	A	A	A
35	125	111	156	138	176	161	195	176	226	203	171

## Voltage Drop (Per Amp Per Meter)

Nominal Cross sectional Area	2 cables d.c.	Ref. Methods 3,4 2 cables, 1-phase a.c.	Ref. Methods 1,11 2 cables, 1-phase a.c.	Ref. Methods 3,4 3 or 4 cables, 3-phase a.c.	Ref. Methods 1,11,12 3 or 4 cables, 3-phase a.c. (in trefoil)	Ref. Methods 1,11 3 or 4 cables, 3-phase a.c. (Flat and touching)
mm <sup>2</sup>	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
35	1.35	r:1.35 x:0.29 z:1.35	r:1.35 x:0.18 z:1.35	r:1.15 x:0.25 z:1.15	r:1.15 x:0.115 z:1.5	r:1.15 x:0.18 z:1.15



Rated voltage



Flame Retardant  
NF C32-070-2.1(C2)  
IEC60332-1-2:EN50265-2-1



IEC60502-1



Reduced Fire Propagation  
NF C32-070-2.2(C1)  
IEC60332-3-24:EN50266-2-4