



# Caledonian

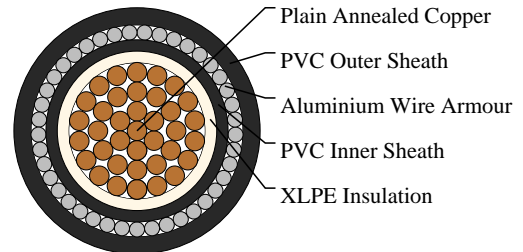
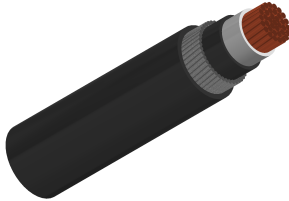
Airport Flame Retardant And Fire Resistant Cables

www.caledonian-cables.com

marketing@caledonian-cables.com

## 600/1000V XLPE Insulated, PVC Sheathed, Armoured Power Cables (Single Core)

FGD300 1RVMV-R 1G120 (CU/XLPE/PVC/AWA/PVC 600/1000V Class 2)



### 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 BS BS 5467

### 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.

Inner sheath : PVC Compound.

Armouring : Aluminium Wire.

Outer Sheath : Thermoplastic PVC compound.

### COLOUR CODE

Insulation Colour: Natural

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: 8 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 Armour Wire Diameter	Diameter under Armour	Nom. Overall Diameter	Approx. Weight
	No. × mm <sup>2</sup>	no./mm	mm	mm	mm	kg/km
FFGD300 1RVMV- R 1G120	1x120	37/2.03	1.6	19.1	25.9	1650

## Current-Carrying Capacities (Amp)

Conductor Cross-sectional Area	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 1 1 2 cables, 1-phase a.c. or d.c. flat and touching	Ref. Method 1 1 3/4 cables, 3-phase a.c. flat and touching or trefoil	Ref. Method 1 2 3 cables trefoil, 3-phase a.c.	In single-way ducts 2 cables, 1-phase a.c. or d.c.	In single-way ducts 3/4 cables, 3-phase a.c.	Laid direct in ground 2 cables, 1-phase a.c. or d.c.	Laid direct in ground 3/4 cables, 3-phase a.c.
mm <sup>2</sup>	A	A	A	A	A	A	A	A	A
120	425	383	449	405	402	410	370	460	389

## Voltage Drop (Per Amp Per Meter)

Nominal Cross sectional Area	2 cables d.c.	Ref. Methods 1, 11 2 cables, 1-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)	2 cables, 1-phase a.c. (In ducts)	2 cables, 1-phase a.c. (In ground)	3 or 4 cables, 3-phase a.c. touching (In ducts)	3 or 4 cables, 3-phase a.c. touching (In ground)
mm <sup>2</sup>	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
120	0.39	r:0.41x:0.19 z:0.45	r:0.35 x:0.165 z:0.39	r:0.38 x:0.24 z:0.44	0.55	0.43	0.48	0.37



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Rated voltage



BS 5467



Flame Retardant  
NF C32-070-2, IEC2  
IEC60332-1-2, EN50265-2-1



Reduced Fire Propagation  
NF C32-070-2, IEC1  
IEC60332-3-24, EN50266-2-4