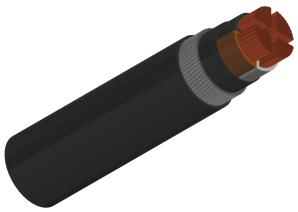
Caledonian

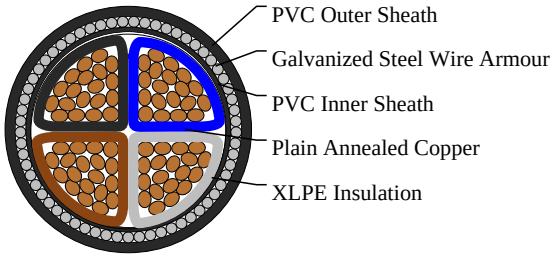
Airport Flame Retardant And Fire Resistant Cables

www.caledonian-cables.com marketing@caledonian-cables.com

600/1000V XLPE Insulated, PVC Sheathed, Armoured Power Cables (4 Cores)

FGD400 1RVMV-R 4G95 (CU/XLPE/PVC/SWA/PVC 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 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, shaped stranded according to IEC 60228 class 2
Insulation: Extruded cross-linked XLPE compound
Inner Sheath: PVC Compound.
Armouring: Galvanized Steel Wire.
Outer Sheath: PVC Compound.

COLOUR CODE

Insulation Colour as per BS7671
Insulation Colour: Brown, Gray, Black, Blue
Sheath Colour: Black (other colors upon request)

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PHYSICAL AND THERMAL PROPERTIES

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 Insulation Thickness	Nominal Armour Wire Diameter	Diameter under Armour	Nom. Overall Diameter	Approx. Weight
	No.×mm²	no./mm	mm	mm	mm	mm	kg/km
FGD400 1RVMV-R 4G95	4x95S	19/2.52	1.1	2	36	41.7	5400

Current-Carrying Capacities (Amp)

Conductor Cross-sectional Area	Ref. Method A One 2C cable, 1-phase a.c. or d.c.	Ref. Method A One 3C or 4C cable, 3-phase a.c.	Ref. Method B One 2C cable, 1-phase a.c. or d.c.	Ref. Method B 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	A	A	A	A	A	A	A
95	338	289	354	304	310	260	380	315

Voltage Drop (Per Amp Per Meter)

Nominal Cross sectional Area	2C cable, d.c.	Ref. Methods A,B 2 cables, 1-phase a.c.	Ref. Methods A,B 3 or 4 cables, 3-phase a.c.	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)
mm²	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m	mV/A/m
95	0.49	r:0.5 x:0.15 z:0.52	r:0.43 x:0.13 z:0.45	0.52	0.52	0.45	0.45

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Rated voltage

BS 5467

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

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