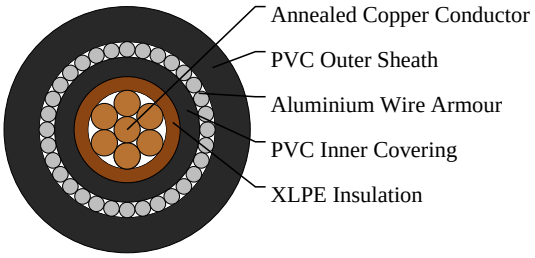
Caledonian

FIREGUARD Flame Retardant Power & Control Cables

www.caledonian-cables.co.uk sales@caledonian-cables.co.uk

600/1000V XLPE Insulated, PVC Sheathed,Armoured Power Cables to IEC 60502 (Single Core)

FGD300 1RVMAV-R (CU/XLPE/PVC/AWA/PVC 600/1000V Class 2)
VDE Code: N2XRY



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 to IEC 60502-1

APPROVALS

TUV Certification (Z1 17 01 98200 004)

FIRE PERFORMANCE

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

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: Aluminium 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 or blue, other colours can be offered upon request.
Sheath Colour: Black, other colours can be offered upon request.

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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:
Circular copper conductors: 6 x Overall Diameter
Shaped copper conductors: 8 x Overall Diameter

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Conductor Class	Nominal Insulation Thickness	Nominal Thickness of Inner Covering	Nominal Sheath Thickness	Nominal Aluminum Wire Armour Diameter	Overall Diameter (max.)	Approx. Weight
No.×mm²		mm	mm	mm	mm	mm	kg/km
1x10	2	0.7	1.0	1.8	0.8	12.2	380

Rated voltage


Flame Retardant
IEC 60332-1

IEC60502-1