





Gridlink Data Cable for Smart Grid Communication Systems

Low Smoke Zero Halogen Single Pair Modbus RS485

Document Information

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Cable Construction

Conductor

22 AWG Stranded Tinned Annealed Copper

Insulation

Extruded PE (Polyethylene)

2 Cores Twisted Together to Form a Pair

Collective Screen

Aluminium/Polyester Tape Laid with Conductive Side in Contact with Tinned Annealed Copper Drain Wire

Collective Screen 2

Tinned Annealed Copper Wire Braid Screen

Extruded LSZH (Low Smoke Zero Halogen)

Colours & Identification

Core Identification

1 x Blue Core 1 x White Core

Outer Sheath Colour

Black

Standards & Properties

Electrical		
Voltage Rating	600	V
Maximum DC Loop Resistance	97.2	Ω /km
Nominal Impedance	120	Ω
Insulation Resistance (500V/1 min)	5	GΩ/km
Max Mutual Capacitance (800Hz Core-Core)	38	nF/km
Maximum Core to Screen Capacitance (800Hz)	69	nF/km
Nominal Inductance	0.55	mH/km

Temperatur		

Operating Temperature Range -20 to +70 °C

Physical

Minimum Bend Radius x OD kg/km Nominal Cable Weight 65

Fire Performance

IEC 60332-1-2 Flame Retardance IEC 60754-1 Halogen Gas Content Gas Acidity IEC 60754-2 Smoke Emission IEC 61034

Nominal **Dimensions**

Conductor Gauge	22	AWG
Conductor Cross Sectional Area	0.35	mm²
Conductor Stranding	7/0.25	mm
Outer Sheath Diameter	7.2	mm







