

## Caledonian

# Medium Voltage Cables www.caledonian-cables.com

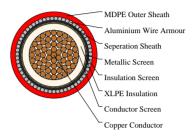
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## 6.35/11kV XLPE Insulated, MDPE Sheathed, Armoured MV Power Cables (Single Core)

N2XSYR2Y 1C400(CU/XLPE/CS/PVC/AWA/PE 6.35/11kV Class 2)

Caledonian No.: FGD300 12RVMAX-R 1C400





### **APPLICATIONS**

They are suitable for installation mostly in power supply stations, indoors and in cable ducts,outdoors,underground and in water as well as for installation on cable trays for industries, switchboards and power stations.

#### **STANDARDS**

IEC 60502-2

### **CABLE CONSTRUCTION**

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

Conductor Screen: Extruded layer of semi-conducting cross-linkable compound is applied over the conductor and shall cover the surface completely.

Insulation: Extruded cross-linked compound type (XLPE).

Insulaton Screen: Extruded layer of semi-conducting cross-linkable compound is applied over the insulation. Metallic Screen: The metallic layer shall be applied as a collective screen. The metallic screen shall consist of either copper tapes or a concentric layer of copper wires or a combination of tapes and wires.

Separation Sheath: Thermoplastic PVC compound.

Armour : Aluminium wire.

Outer Sheath:Thermoplastic MDPE compound Type ST7 according to IEC 60502-2.The overall cable design will be more suitable for wet locations.

Outer Sheath Option: UV resistance, hydrocarbon resistance, oil resistance and anti-rodent can be offered as option.

#### **COLOUR CODE**

Insulation Colour: Natural colouring.

Sheath Colour: Red.

#### PHYSICAL AND THERMAL PROPERTIES

Rated Voltage Uo/U:6.35/11KV Operating Voltage (Um):12KV



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Testing Voltage (rms):25.5KV

Operating Temperature: up to 90°C

Temperature Range: -5°C

Short Circuit Temperature( 5 seconds maximum duration ): 250°C

Bending Radius:20 x OD

## **Electrical Properties**

Current Rating Conditions: Ground Temperature: 20°C Ambient Temperature (air): 30°C

Depth of Soil: 0.8m

Thermal Resistance of Soil: 1.5K•m/W

### TECHNICAL CHARACTERISTICS

Nom. Cross-F Section Area	DC Resistan <del>b</del>				Current	Circuit Rating of Screen 1s (Copper	(Trefoil)		(Trefoil)		(Trefoil)	mpedanc (Flat Spaced) CU
mm²	μΩ/m	μΩ/m	kA	pF/m	mA/m	Wire) kA	μΩ/m	μΩ/m	nH/m	nH/m	μΩ/m	μΩ/m
400	47	64	57.3	561	1.12	4.29	94	154	300	490	113	164

### **DIMENSION AND PARAMETERS**

Nominal Cross- sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Copper Wire Screen Area	Copper Tape Screen Area	Nominal Sheath Thickness	Nominal Armour Wire Diameter	Approx. Overall Diameter	Approx. Weight
mm²	mm	mm	mm²	mm²	mm	mm	mm	kg/km
400	3.4	1.2	35	14.6	2.4	2	48.2	5589

## **Current Rating**

Nominal Cross- Section Area	Buried direct in Ground (Trefoil)	Buried direct in Ground (Flat spaced)	Laid in Single Way Duct (Trefoil)	Laid in Single Way Duct (Flat Touching)	Laid in Air (Trefoil)	Laid in Air (Flat Touching)	Laid in Air (Flat Spaced)
mm²	A	А	А	Α	А	A	А
400	590	572	564	571	845	837	938



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Rated voltage