

Caledonian

Medium Voltage Cables www.caledonian-cables.com

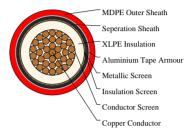
marketing@caledonian-cables.com

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

N2XSYB2Y 1C185(CU/XLPE/CS/PVC/ATA/PE 6.35/11kV Class 2)

Caledonian No.: FGD300 12RVMAX-R 1C185





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 tape.

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.	DC	AC	ShortC	apacitan	Charging	Short F	Reactand	Reactando	nductan b	nductan t	npedan t	mpedanc
Cross-R	Resistan b	lesistanc	Circuit		Current	Circuit	(Trefoil)	(Flat	(Trefoil)	(Flat	(Trefoil)	(Flat
Section			Rating			Rating		Spaced)		Spaced)	CU	Spaced)
Area			of			of						CU
			Conducto			Screen						
			CU/			1s						
			AL 1s			(Copper						
						Tape)						
mm²	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	μΩ/m	μΩ/m	nH/m	nH/m	μΩ/m	μΩ/m
185	99	128	26.6	416	0.83	1.63	107	166	340	530	165	206

DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Nominal Insulation Thickness	Nominal Bedding Thickness	Copper Wire Screen Area	Copper Tape Screen Area	Nominal Sheath Thickness	Nom. Armour Thickness	Approx. Overall Diameter	Approx. Weight
mm²	mm	mm	mm²	mm²	mm	mm	mm	kg/km
185	3.4	1.2	25	11.2	2.1	0.5	37.4	3010

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
185	406	410	387	391	543	550	637



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Rated voltage