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Medium Voltage Cables www.caledonian-cables.com

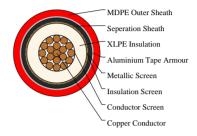
marketing@caledonian-cables.com

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

N2XSYB2Y 1C70(CU/XLPE/CS/PVC/ATA/PE 6.35/11kV Class 2)

Caledonian No.: FGD300 12RVMAX-R 1C70





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. Cross-F Section Area	DC Resistan 5				Current	Circuit Rating of Screen 1s (Copper	(Trefoil)		(Trefoil)		(Trefoil)	mpedanc (Flat Spaced) CU
						Tape)						
mm²	μΩ/m	μΩ/m	kA	pF/m	mA/m	kA	μΩ/m	μΩ/m	nH/m	nH/m	μΩ/m	μΩ/m
70	268	343	9.8	288	0.58	1.19	122	188	390	600	364	386

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
70	3.4	1.2	16	8.2	1.9	0.5	30.8	1700

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	A	A	Α	Α	A	A
70	239	246	227	229	296	303	356



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Rated voltage