XLPE/PVC Single Core Copper SDI

XLP 1X70 PC 0.6/1KV PVC



Nexans
Ref.: BDBC20AA001CXNA

Country
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CONTACT

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70mm2 XLPE / PVC SDI Black

STANDARDS

Product AS/NZS 1125; AS/NZS 5000.1

Single core XLPE SDI Cable

- Single core, 0.6/1kV X-90 insulated,
- PVC sheathed to AS/NZS 5000.1,
- Copper conductor, 90°C.

Mains; Submains

Conductor flexibility	Rated Voltage Uo/U (Um)	Cable flexibility
Class 2	**0,6/1 kV**	**Rigid**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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CHARACTERISTICS

Construction characteristics	
Colour	Black
Conductor material	Copper
Type of conductor	Compact copper
Conductor shape	Circular
Conductor flexibility	Class 2
Insulation	X-90
Outer sheath	PVC
Dimensional characteristics	
Approximate weight	73.0 kg/100m
Cable length	- m
Conductor cross-section	70 mm²
Nominal insulation thickness	1.1 mm
Nominal outer sheath thickness	1.4 mm
Nominal overall diameter	14.7 mm
Number of cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	0.471 Ohm/km
Inductive reactance at 50Hz - flat touching	0.108 Ohm/km
Inductive reactance at 50Hz - trefoil	0.092 Ohm/km
Insulation resistance at 20°C	270 MOhm.km
Max. DC resistance of the conductor at 20°C	0.268 Ohm/km
Rated Voltage Uo/U (Um)	0,6/1 kV
Mechanical characteristics	
Cable flexibility	Rigid
Maximum Pull Tension of Conductor	5 kN
Maximum Pulling Tension	1.8 kN
Usage characteristics	
Minimum Bend Radius - During Installation (under Tension)	180 mm
Minimum Bend Radius - Installed	120 mm

ENVIRONMENTAL DATA

Global Carbon Footprint	
Amount of CO_2 emitted Cradle to Gate phase (raw material collection and manufacturing), for the production of 1 km of cable.	**3.56 t eq. CO_2**

Environmental information coming from Nexans' Product Environmental Profile (PEP Ecopassport®)

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XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE SINGLE PHASE (IN AMPS)

Copper or Aluminium Conductor XLPE Insulation Maximum Conductor Temperature 90C

Conductor cross-section																		
[mm²]	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
70	291	226	273	212	224	174	204	159	164	127	-	-	313	243	233	181	258	200


Unenclosed spaced


Unenclosed spaced from surface


Unenclosed touching


Enclosed conduit in air


Thermal insulation, partially surrounded by thermal insulation


Thermal Insulation, completely surrounded by thermal insulation


Buried direct


Underground ducts A - Underground Wiring Enclosure


Underground ducts B - Individual Wiring Enclosure

XLPE/PVC SINGLE CORE - CURRENT CARRYING CAPACITY TABLE THREE PHASE (IN AMPS)

Copper or Aluminium Conductor XLPE Insulation Maximum Conductor Temperature 90C

Conductor cross-section																		
[mm²]	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
70	282	219	240	186	224	174	183	142	146	114	-	-	262	203	203	158	232	180


Unenclosed spaced


Unenclosed spaced from surface


Unenclosed touching


Enclosed conduit in air


Thermal insulation, partially surrounded by thermal insulation


Thermal Insulation, completely surrounded by thermal insulation


Buried direct


Underground ducts A - Underground Wiring Enclosure


Underground ducts B - Individual Wiring Enclosure

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