VERSOLEX® Flexible Single Core 90°C

CU VERSOLEX 1x 50

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Nexans Ref.: BDSX05HE001CXNA
Country Ref.: 5426

CU VERSOLEX 1x 50



DESCRIPTION

- 0.6/1kV cables,
- Flexible X-HF-90 (XLPE) insulated
- TPE sheathed to AS/NZS5000.1 (Power),
- Copper conductors (Class 5), 90°C.
- Submersible up to 500m

STANDARDS

National AS/NZS 1125; AS/NZS 3808; AS/NZS 5000.1

Conductor flexibility
Class 5

Rated Voltage Uo/U (Um)
0.6/1 kV

Cable flexibility
Flexible

Maximum operating temperature
90 °C

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	
Conductor material	Copper
Type of conductor	Circula, Flexible, Class 5
Colour	Black
Insulation	X-HF-90
Conductor flexibility	Class 5
Conductor shape	Circular
Outer sheath	TPE
With Green/Yellow core	No
With smaller neutral conductor	No
Dimensional characteristics	
Conductor cross-section	50 mm²
Maximum diameter of wires	0.41 mm
Nominal overall diameter	14.9 mm
Approximate weight	58.0 kg/100m
Cable length	- m
Neutral conductor section (when smaller)	- mm²
Number of cores	1
Electrical characteristics	
Conductor AC resistance at 50 Hz	- Ohm/km
Inductive reactance at 50Hz - flat touching	- Ohm/km
Inductive reactance at 50Hz - trefoil	- Ohm/km
Insulation resistance at 20°C	- MOhm.km
Rated Voltage Uo/U (Um)	0.6/1 kV
Max. DC resistance of the conductor at 20°C	0.386 Ohm/km
Mechanical characteristics	
Cable flexibility	Flexible
Usage characteristics	
Bending factor when installed	D>25mm: 6 (xD); D<25mm: 4 (xD)
Maximum operating temperature	90 °C

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CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CORE CU VERSOLEX 90°C

Copper conductor - Circular Flexible stranded conductor Insulation X-HF-90 - Max. Conductor Temperature 90C

Conductor cross-section							
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu
50	240	196	184	273	203	203	-

 Unenclosed spaced from surface

 Unenclosed touching

 Enclosed conduit in air

 Buried direct

 Buried in multi-way duct

 Buried in single-way duct

 Cable surrounded by thermal insulation, unenclosed

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CORE CU VERSOLEX 90°C

Copper conductor - Circular Flexible stranded conductor Insulation X-HF-90 Max. Conductor Temperature 90C

Conductor cross-section							
[mm²]	Cu	Cu	Cu	Cu	Cu	Cu	Cu
50	210	196	158	229	174	174	-

 Unenclosed spaced from surface

 Unenclosed touching

 Enclosed conduit in air

 Buried direct

 Buried in multi-way duct

 Buried in single-way duct

 Cable surrounded by thermal insulation, unenclosed

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