

# VERSOLEX® Flexible Single Core 90°C

CU VERSOLEX 1x 35

## Contact

Sales and Customer Solutions  
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Nexans Ref.: BDSX04HE001CXNA

Country Ref.: 4065

CU VERSOLEX 1x 35

## 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



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	Circular, Flexible, Class 5
Colour	Black
Insulation	X-HF-90
Outer sheath	TPE
With Green/Yellow core	No
With smaller neutral conductor	No

### Dimensional characteristics

Conductor cross-section	35 mm <sup>2</sup>
Maximum diameter of wires	0.41 mm
Nominal overall diameter	13.1 mm
Approximate weight	43.0 kg/100m
Cable length	- m
Neutral conductor section (when smaller)	- mm <sup>2</sup>
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 U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV
Max. DC resistance of the conductor at 20°C	0.554 Ohm/km

### Mechanical characteristics

Cable flexibility	Flexible
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### Usage characteristics

Bending factor when installed	D>25mm: 6 (xD); D<25mm: 4 (xD)
Maximum operating temperature	90 °C

## 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 [mm <sup>2</sup> ]	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu	 Cu
35	191	155	145	230	165	165	79

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## 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 [mm <sup>2</sup> ]							
	Cu	Cu	Cu	Cu	Cu	Cu	Cu
35	166	155	130	193	143	143	79
 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							