

Contact

Building and LAN System Customer Service olexmktmgr.building@nexans.com

VAROLEX® VSD/EMC

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Nexans ref.: FTDC19AA003

Fixed conductor variable speed drive cables. 0.6/1kV X-90 insulated

Description

- Fixed conductor variable speed drive cables.
- 0.6/1kV X-90 insulated,
- 3 core+3 earths,
- PVC bedded,
- · Copper tape screened,
- PVC sheathed to AS/NZS 5000.1,
- Copper conductors, 90°C

*For 2.5 mm², split earth not feasible, therefore a single earth conductor is utilised.





Standards

National AS/NZS 5000.1





 $\begin{array}{c} \text{Maximum operating temperature} \\ 90~^{\circ}\text{C} \end{array}$



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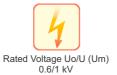
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Characteristics

Construction characteristics							
Conductor material	Copper						
Outer sheath	PVC						
Screen	Copper tape						
Material of bedding	PVC filler						
Insulation	X-90						
Dimensional characteristics							
Nominal insulation thickness	1.0 mm						
Diameter over screen	25.1 mm						
Nominal overall diameter	28.8 mm						
Combined earth size section	30 mm²						
Conductor cross-section	50 mm²						
Approximate weight	211.0 kg/100m						
Number of cores	3						
Number of earth cores	3						
Electrical characteristics							
Inductive reactance at 50Hz	0.076 Ohm/km						
Capacitance (One Main Core - Other & Screen)	0.292 μF / km						
Capacitance 3 phase operating	0.352 μF / km						
Max. DC resistance of the conductor at 20°C	0.384 Ohm/km						
Conductor AC resistance at 50 Hz	0.493 Ohm/km						
Capacitance (All Main Cores - Screen)	0.529 μF / km						
Insulation resistance at 20°C	360.0 MOhm.km						
Rated Voltage Uo/U (Um)	0.6/1 kV						
Usage characteristics							
Maximum operating temperature	90 °C						





Maximum operating temperature 90 °C



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Current carrying capacities three phase (in Amps)

Underground ducts A

Insulation type: X-90, X-HF-90, R-EP-90, R-CPE-90, R-HF-90 OR R-CSP-90 Maximum conductor temperature: 90°C Reference ambient temperature: 40°C IN AIR, 25°C IN GROUND

	,				
®	Unenclosed spaced	180	**	Unenclosed touching	168
(2)	Unenclosed and partially surrounded by thermal insulation	134	\$	Unenclosed and completely surrounded by thermal insulation	-
@ @	Enclosed conduit in air	136	(S)	Enclosed, partially surrounded by thermal insulation	108
②	Enclosed, completely surrounded by thermal insulation	-	77. 2 977.	Buried direct	204

155





Maximum operating temperature 90 °C