

**Contact**

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**VAROLEX® VSD/EMC****VAROLEX® VSD/EMC**

Nexans ref.: FTDC17AA003

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 mm<sup>2</sup>, split earth not feasible, therefore a single earth conductor is utilised.

**Standards****National AS/NZS 5000.1**

Rated Voltage U<sub>0</sub>/U (Um)  
0.6/1 kV



Maximum operating temperature  
90 °C

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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	0.9 mm
Combined earth size section	12 mm <sup>2</sup>
Diameter over screen	19.2 mm
Nominal overall diameter	22.8 mm
Conductor cross-section	25 mm <sup>2</sup>
Approximate weight	121.0 kg/100m
Number of cores	3
Number of earth cores	3
Electrical characteristics	
Inductive reactance at 50Hz	0.079 Ohm/km
Capacitance (One Main Core - Other & Screen)	0.241 µF / km
Capacitance 3 phase operating	0.29 µF / km
Capacitance (All Main Cores - Screen)	0.436 µF / km
Max. DC resistance of the conductor at 20°C	0.78 Ohm/km
Conductor AC resistance at 50 Hz	0.995 Ohm/km
Insulation resistance at 20°C	450.0 MOhm.km
Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	0.6/1 kV
Usage characteristics	
Maximum operating temperature	90 °C











 Rated Voltage U<sub>0</sub>/U (U<sub>m</sub>)  
 0.6/1 kV

 Maximum operating temperature  
 90 °C

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**Current carrying capacities three phase (in Amps)**

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	119	 Unenclosed touching	111
 Unenclosed and partially surrounded by thermal insulation	89	 Unenclosed and completely surrounded by thermal insulation	56
 Enclosed conduit in air	91	 Enclosed, partially surrounded by thermal insulation	73
 Enclosed, completely surrounded by thermal insulation	46	 Buried direct	143
 Underground ducts A	107		



Rated Voltage U<sub>0</sub>/U (Um)  
 0.6/1 kV



Maximum operating temperature  
 90 °C