

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


Rated Voltage U₀/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	1.0 mm
Diameter over screen	25.1 mm
Nominal overall diameter	28.8 mm
Combined earth size section	30 mm ²
Conductor cross-section	50 mm ²
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 U ₀ /U (U _m)	0.6/1 kV
Usage characteristics	
Maximum operating temperature	90 °C



Rated Voltage U₀/U (U_m)
0.6/1 kV












Maximum operating temperature
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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	180	 Unenclosed touching	168
 Unenclosed and partially surrounded by thermal insulation	134	 Unenclosed and completely surrounded by thermal insulation	-
 Enclosed conduit in air	136	 Enclosed, partially surrounded by thermal insulation	108
 Enclosed, completely surrounded by thermal insulation	-	 Buried direct	204
 Underground ducts A	155		



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



Maximum operating temperature
90 °C