

AL Vintols

AL VINTOL 185 NL RD V75

International Designation: AL VINTOL 185 NL RD V75

Nexans Ref.: BABA25AA001JBNA

Country Ref.: 7192

Al conductor, PVC insulated, PVC sheath. 0.6/1 kV. Made to AS/NZS 5000.1

DESCRIPTION

Application

- Industrial and commercial applications (predominantly)
- Some domestic applications
- For use in various situations to supply the main power from the point of supply (either single or three phase application) to buildings, equipment shed, eg, switch board to main control cabinet, main between floors and buildings, cable cabinet to motor, etc. Commonly used in Power Authority work.



STANDARDS

National AS/NZS 5000.1

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CHARACTERISTICS

Construction characteristics

Sheath colour	Red
Type of conductor	Circular, stranded
Conductor material	Aluminum
Insulation	PVC
Outer sheath	PVC
Insulation colour	White
With Green/Yellow core	No
With smaller neutral conductor	No

Dimensional characteristics

Conductor cross-section	185 mm ²
Nominal overall diameter	25.1 mm
Gland Size (A2 or A2F)	32
Approximate weight	0.92 kg/m
Neutral conductor section (when smaller)	- mm ²
Number of cores	1

Electrical characteristics

Max. DC resistance of the conductor at 20°C	0.164 Ohm/km
Permissible short circuit current conductor 1s	- kA
Rated Voltage U ₀ /U (Um)	0.6/ 1 (1.2) kV

Mechanical characteristics

Cable flexibility	Rigid
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Usage characteristics

Max. conductor temperature in service	75 °C
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CURRENT CARRYING CAPACITIES SINGLE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC

Copper conductor - Circular stranded - Insulation PVC Aluminum conductor - Circular stranded except 240 mm²
Compact circular stranded - Insulation PVC Max. Conductor Temperature 75C

Conductor cross-section [mm ²]																	
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al			
185	-	377	-	318	-	284	-	411	-	349	-	281	-	-			
	Air Spaced from Surface, Unenclosed			Air touching, unenclosed			Air enclosed			Buried direct			Buried in single-way duct			Buried in multi-way duct	
	Cable surrounded by thermal insulation, unenclosed																

Note

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Generated 5/11/21 www.nexans.co.nz Page 2 / 3

AL Vintols

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Please refer to the complete Standard for full details available for purchase from Standards New Zealand at www.standards.co.nz.

The values are for typical New Zealand installation conditions of:

- Ambient Air Temperature: 30°C
- Soil Temperature: 15°C
- Soil Thermal Resistivity: 1.2 K.m/W
- Depth of Burial: 0.5 m

CURRENT CARRYING CAPACITIES THREE PHASE (IN AMPS) - SINGLE CONDUCTOR PVC

Single Conductor PVC (three phase) PVC insulation Unarmoured Sheathed or unsheathed For cables up to and including 0.6/1 kV @ 50 Hz AC.

Conductor cross-section [mm ²]														
	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al	Cu	Al
185	-	341	-	317	-	253	-	344	-	312	-	278	-	-
	Air Spaced from Surface, Unenclosed				Air touching, unenclosed				Air enclosed				Buried direct	
	Buried direct				Buried in single-way duct				Buried in multi-way duct				Cable surrounded by thermal insulation, unenclosed	

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