

Cable - Low Voltage Power

Cable Description: 4 X 120 MM2 SECTOR 90 AL PVC PVC BLACK : 600 V WAPDA

DDS-8:2007-4C : SHEATHING

Design and Construction Data

Reference Manufacturing Standards		WAPDA DDS-8:2007
Max. Permissible Continuous Conductor Temp	°C	120
Max. Conductor Short Circuit Temp for 5 Seconds	°C	160
Rated Voltage 'Uo / U'	V	600
Number of Conductors x Cross-Section	mm ²	4 x 120
Conductor Material & Shape		Aluminum & Stranded Class 2 Sector 90
Insulation Material		PVC
Insulation Nominal Thickness	mm	1.86
Insulation Color		RED, YELLOW, BLUE, BLACK
Outer Sheath Material		PVC
Sheath Material Thickness	mm	3.20
Colour of Outer Sheath		Black
Approximate Cable Overall Diameter	mm	43.62
Approximate Cable Weight	Kg/km	2702

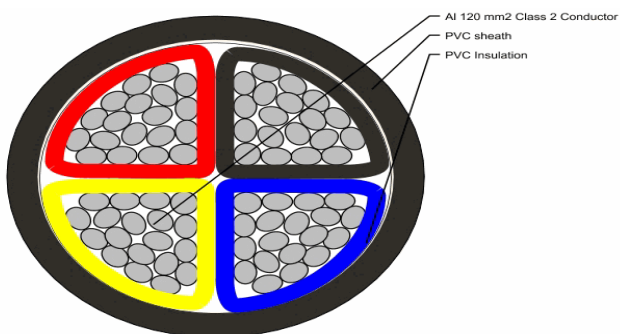
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	0.253
High Voltage Test at 3.0 kV for 5 min		No Breakdown Shall Occur
Min. Insulation Resistance Test @ 20 °C	M.Ω.Km	36.7
Max Conductor Short Circuit Current @ 1 Second	kA	8.83
Current Carrying Capacity		
Laid in Free air @ 30 °C Ambient Temperature (Trefoil)	Amp	212
Clipped Direct @ 30 °C	Amp	197
Ducting in ground @ 30 °C	Amp	160
Minimum Bending Radius	mm	8D
The Cable shall meet all Test requirements		WAPDA DDS-8:2007

Cable Marking

4x120 MM SQ AL/PVC/PVC 600V AS PER WAPDA FAST CABLES LTD Y.O.M - METER MARKED

Cable Drawing



4x 120MM SQ AL/PVC/PVC 600V		Approx. Diameter
Stranded Aluminum Conductor with sector shape	mm	12.36x17.43
Insulated	mm	16.08x21.15
Laid up Cores	mm	36.82
Outer Sheathing	mm	43.62