

Cable - Low Voltage Power

Cable Description: 4 X 50 MM2 SECTOR 90 CU PVC PVC BLACK : 600/1000 V IEC60502 PT 1 :

SHEATHING

Design and Construction Data

Reference Manufacturing Standards	IEC 60228 IEC 60502 PT 1	
Max. Permissible Continuous Conductor Temp	°C	70
Max. Conductor Short Circuit Temp for 5 Seconds	°C	160
Rated Voltage ' Uo / U '	V	600/1000
Number of Conductors x Cross-Section	mm ²	4 x 50
Conductor Material & Shape	Copper & Stranded Class 2 Sector 90	
Insulation Material	PVC	
Insulation Nominal Thickness	mm	1.40
Insulation Color	RED, YELLOW, BLUE, BLACK	
Outer Sheath Material	PVC	
Sheath Material Thickness	mm	1.90
Colour of Outer Sheath	Black	
Approximate Cable Overall Diameter	mm	28.89
Approximate Cable Weight	Kg/km	2329
Cable Length	Meter	500 ±5%

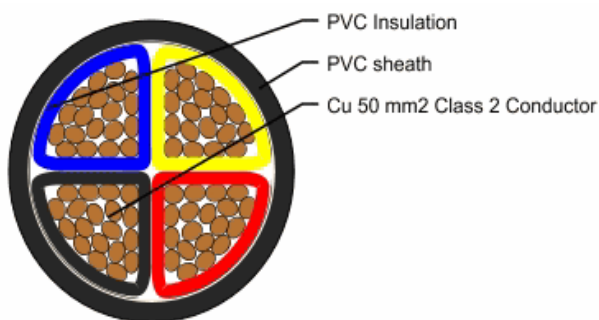
Electrical Data

Max Conductor DC resistance @ 20 °C	ohm/km	0.387
High Voltage Test at 3.5 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	5.75
Current Carrying Capacity		
Laid in Free air or on cable tray @ 30 °C	Amp	153
Laid in ground @ 20 °C	Amp	
Laid in Conduit or in Trunking @30 °C	Amp	118
Minimum Bending Radius	mm	8D
The Cable shall meet all Test requirements	IEC 60228 IEC 60502 PT 1	

Cable Marking

4x50mm² CU/PVC/PVC ELECTRIC CABLE 0.6/1kV IEC 60228, 60502-1 FAST CABLES LTD Manufacturing Year - Meter marked

Cable Drawing



4 X 50 MM2 SECTOR 90 CU PVC PVC BLACK 600/1000 V IEC60502 PT 1 : SHEATHING	Approx. Diameter	
Stranded Copper Conductor with sector shape	mm	7.98x11.25
Insulated	mm	10.78x14.05
Laid up Cores	mm	24.69
PVC-FR Outer Sheathing	mm	28.89