

Project Information

Supply Voltage : 230v 1 Phase 50Hz CPC within cable
 Max Voltdrop : 6.90 Volts 3.00 %
 PSSC at Source : 0.657 kA At 0.90 P.F

Cable : Multi Core PVC.SWA.PVC Cu Table 4D4
 Installed Method : In underground conduit or ducting Table 4A '7'
 Length of Run : 48 Mtrs

Load Type : Lighting radial circuits
 Design Current : 0.30 A At 0.90 P.F
 Protective Device: BS Devices BS 88 Fuse gG (General) HRC

Calculation Results

Cable Size : 2 c 6.00 mm² No cables in parallel

VoltDrop : 0.0473 V (at P.F 0.90)

CPC Used

(equivalent) armour 11.00 mm² (equivalent) cond/trunk 0.00 mm²

With 1 parallel CPC, size 6.00mm²

Ca 1.00	Cg 1.00	Max Zs 4.175 Ohms	Max Length (V.D) 7001.00 m
Design Current 0.30 A	Device Rating 16.00 A	Min Cable Rating 16.00 A	Actual Rating 49.00
R1 0.2040192 Ohms	R2 0.141046 Ohms	Ze 0.350000 Ohms	Zs 0.677467 Ohms
Earth Fault Current 340 A	Disc Time <0.1000s	Max Disc Time 5.0s	Max PSSC 657 A
Minimum CPC using Adiabatic 0.42 mm ² (Cable Equivalent)		Minimum CPC using 54G 6.00 mm ² (Cable Equivalent)	
PSSC Load end min = 311 A max = 365 A		Disconnection time <0.10s I ² t: 550.0 K ² S ² : 476100.0	