Cable Sizer

This cable sizer follows the procedure outlined in IEC 60364-5-52 for sizing low voltage cables.

Note: minimum size is 1.5mm^2 for Copper and 16mm^2 for Aluminum conductors.

1- Project Information

project [ ] cable ref. [ ]

2- Cable Specs

conductor [i1 ▼] insulation [i2 ▼]

3- Connected Load

phases [i3 ▼] voltage [i7] V power factor [i8]

tg1 ● load current current [i4] A

tg2 ● load power power [i5] [i6 ▼] load eff. [i9] %

current [o1]

4- Sizing (Ampicity)

installation method [i10 ▼] configuration [i11 ▼]

[o3] [i12 ▼]

[o4] [i13 ▼]

[o5] [i14 ▼]

cable/conduit spacing [i15 ▼]

soil thermal conductivity [i16 ▼]

[o2]

[calculate cable size] i18

load current [o1] A

min cable size [o9] mm^2

[o6] [o7]

cable base ampicity (I_B) [o10] A

circuit grouping correction factor (k_G) [o8]

cable corrected ampicity (I_C) [o11] A

($I_C = I_B \times k_G \times k_T$)

5- Sizing (voltage drop)

cable length [i19] [i20 ▼] max voltage drop [i21] %

cable cores [i22 ▼]

[calculate cable size] i25

load current [o1] A

cable ampicity criteria

cable size [o9] mm^2

voltage drop [o12] V

[o13] %

voltage drop criteria

min cable size [o14] mm^2

voltage drop [o15] V

[o16] %

6- Sizing (short circuit)

cable temperatures

	initial temp.	final temp.	
tg3 ● typical values	[o17]	[o18]	
tg4 ● user-defined values	[i27]	[i28]	[i26 ▼]

short circuit

current [i29] A

duration [i30] s

[calculate cable size] i31

min cable size [o19] mm^2

[generate pdf] i32 [save inputs] i33