Current carrying capacity

Is it 1 or 3 phase

Need to know amps

Calculate: 3Ph W / (√3 x v),
1 Ph W / V
(convert KW to W)

Add future increases. E.g + 10%
203A x 1.1 = 223A

Check on CCC tables to select cable

- Ali or copper
- Multicore or 2 core
- Installation Method
- (if it is close, select 2)
-

Rerate the CCC from the the tables for temp changes

- Usually goes down

If cold environment will increase

Recheck cable with new value

Volt Drop

Need to know voltdrop

Workout e.g 5% of 400 = 20V

Calculate:

mvAm = (Vd x 1000)/(A x L)

A (L = length)

Check against tables
(the tables are for 3 phase, if using single phase , conversion at bottom of table)