

Power requirements:

Speakers:

4 Ex6

EX6

Ex6 draws 1.25A

So, 2.5A for 2 on truss and 2.5A in FOH

64A 3 phase source

32A to 6 16A rubber box splitter

Or

1 16A from Distro

16A-5A = 11A remaining on the rubber box. Plenty of range in case of spike

Use 1 16A of distro as then have control over own power on procedure.

From 13A wall sockets

Desk Power:

SQ5

MacBook x2

Deon amp

No of plugs = 4

Back Stage

AR2412

No of plugs = 1

Side of room

UR4D x 3

Network switch (potentially)

No of plugs = 4

Max room draw = 32A on 13a plugs

Amps equation = Power(w)/Volts(v)

Volts = 240

Desk area

SQ5

P = 75

V = 240

A = 0.3125

MacBook x2 (based off 2021 macbook pro 13")

P = 61

V = 240

A = 0.2541.66 cont

Deon amp (type unsure) (based off PMA – 30 as same inputs)

P = 35

V = 240

A = 0.145833 cont

Total = 0.7125004

Side of room

5 UR4D draw 5A at 120V so

$$P = 5 \times 120 = 600$$

So, at 240v

$$600/240 = 2.5A$$

So, with only 3 we will draw less than this

$$2.5/5 = 0.52$$

$$0.52 \times 3 = 1.56A$$

$$\text{Total} = 1.56A$$

Back Sage

AR2412

$$P = 70$$

$$V = 240$$

$$A = 0.29166 \text{ cont}$$

$$\text{Total } 0.29167$$

Total Amp Draw on 13A sockets on 32A breaker

$$= 2.5641704A$$

This is not going to cause circuit breaks.

Power Cabling Sum Up

Required:

Desk

1x 6-way 5m extension

Speakers

1x 16A 20m

1x 16a to 4 13a

4x 10m extensions

2x 5m 6-way extensions

Side of stage

1 x 5m 6-way extension

Behind Stage

1 x 13A 10m extension (potentially)