For call forwarding to the CallMe app

MAINS
24V
24V
LINE IN
LAN

Connection to 2Voice equipment — Cat5e Max 50M

1083/83 + 1083/24

Internet connection

Systems with 1083/41 Switchboard

Connection to 2Voice equipment — Cat5e Max 50M

Switchboard wiring junction box
LINE
POWER

DC OUTPUT V+ / V-
AC INPUT L / N
MAINS

PSU supplied with 1083/41

Note: Power supply for switchboard must be within 5M of the switchboard itself.

1083/41 Switchboard
Cable supplied with 1083/41

Cabling requirements when using the RTE-EES Self Resetting Emergency Exit System

3 x Cat5e + 2 x 2-core lock cable
2 x Cat5e
2 x 2-core lock cable
2-Core dedicated lock cable
Maglock

EP-2SMART-SS
Cat5e
Door contact
Press to exit switch

Maximum of 50 monitors

1083/55
LINE IN
LINE OUT
LINE 3   LINE 4
LINE 1   LINE 2
LINE IN

Further 1083/55 distributors and monitors

Cat5e UTP

1083/55
LINE IN
LINE OUT
LINE 3   LINE 4
LINE 1   LINE 2
LINE IN

Cat5e UTP

1083/55
LINE IN
LINE OUT
LINE 3   LINE 4
LINE 1   LINE 2
LINE IN

Cat5e UTP Maximum 50M

Cat5e UTP Maximum 125M from 1083/20 to the furthest monitor

EP-2SMART-SS
LINE
2 cores
N
C
NO

Cat5e UTP Maximum 100M
Cat5e STP 24 AWG Maximum 100M

LINE 1
LINE 2
MAINS
R+/D+
R-/D-
REX+
REX-/OC-
C
NC
NO

1083/20
1104/921

Volt free 'clean contact' lock output

* The 2Smart intercom panel reader uses one channel on either the 1104/921 4-Door base controller, or the 1104/926 2-Door expansion card

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The maximum 'cable extension' or maximum total amount of cable in the 2Voice system is 800M.

For example -

Entry panel to power supply = 100M
Power supply to the last 1083/55 distributor = 40M
1083/55 distributor to monitor = 15M (multiplied by eg 40 apartments) = 600M.

100M + 40M + 600M = 740M cable extension.

If you calculate the 'cable extension' to be over 800M, please contact Urmet Technical Support.

Note that cables for electric releases, proximity readers etc do not need to be included in the cable extension calculation.

NOTES:

1. This schematic is for guidance only and should not be used for installation

2. Maximum distance from door entry panel to 1083/20 is 100m using Cat5e cable

3. Maximum distance from 1083/20 to the monitor is 125m using Cat5e cable

4. Maximum distance from 1083/55 to the monitor is 50m using Cat5e cable

5. Spare cores in Cat5e cable must not be used for other services -

2Voice LINE

6. Add a cable for the electric release -

Cat5e UTP Maximum 100M
Cat5e STP 24 AWG Maximum 100M
1083/20
1104/921
12V PSU
2-Core dedicated lock cable

7. Cabling for double pole push to exit switch, double pole break glass unit and maglock -

Cat5e UTP Maximum 100M
Cat5e STP 24 AWG Maximum 100M
1083/20
1104/921
12V PSU

Maglock
2-Core dedicated lock cable
BGU
Cat5e
2-Core dedicated lock cable
PTE
Cat5e
2-Core dedicated lock cable

8. Up to four monitors can be connected to ring together -

LINE IN
LINE OUT   LINE IN
LINE OUT   LINE IN
LINE OUT   LINE IN
Cat5e UTP   Cat5e UTP   Cat5e UTP   Cat5e UTP