

BEL2

Operating Instructions

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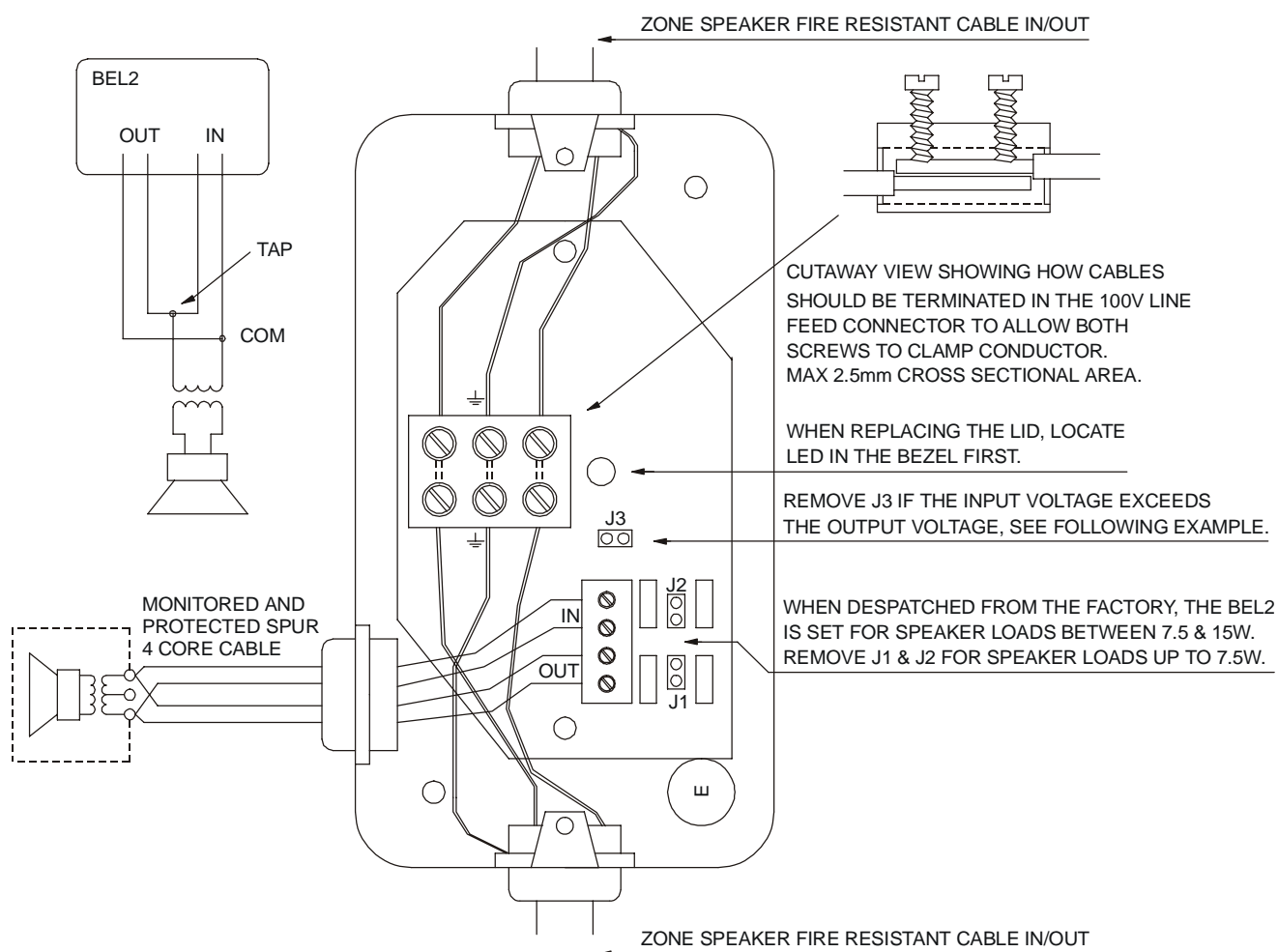
BALDWIN BOXALL
COMMUNICATIONS

BEL2 Loudspeaker Line Protection Unit

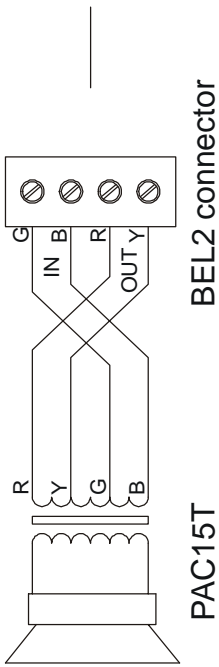
When using the BEL2 set to 7.5W the amplifier must be at least 60W and 150W when set to 15W in order to operate the short circuit isolator facility. The BEL2 will only operate on the 100V loudspeaker line system in conjunction with the IMP18 and BEL1. Using a 4 core cable to the loudspeaker the BEL2 monitors the connection to the transformer primary for open and short circuits. An LED mounted on the lid indicates a fault when illuminated.

In addition if this speaker feed should develop short circuit condition, it will isolate it from the main speaker line preventing total loss from other speakers on the line.

Max insertion loss: 7.5W load - 0.8dB 15W load - 0.8dB

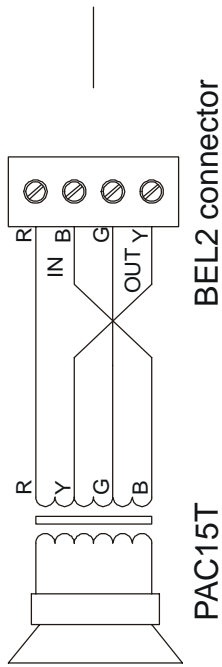


The BEL2 requires loudspeakers to be cabled in a four core cable - 2 cores for 100V line wiring in and two cores for 100V line wiring out as per the drawing above. Please note J3 is removed for loudspeakers tapped at 15W and 7.5W as the input voltage exceeds 100V and handling is dangerous - Please be careful!



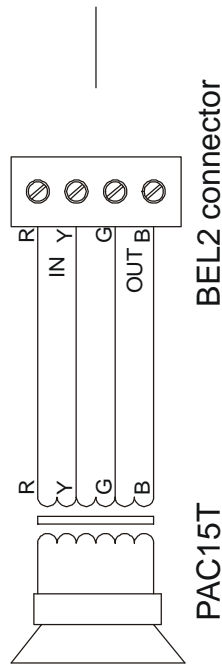
PAC15T Tapped at 15W, BEL2 set to 15W. J1 & J2 fitted, J3 removed as input voltage is approximately 160V.

NOTE: Damage could occur if J3 is not removed.

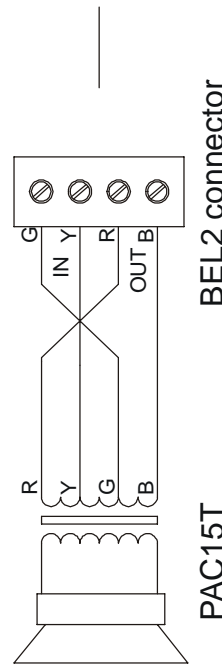


PAC15T Tapped at 7.5W, BEL2 set to 7.5W. J1, J2 and J3 removed as input voltage is approximately 270V.

NOTE: Damage could occur if J3 is not removed.



PAC15T Tapped at 4W, BEL2 set to 7.5W. J1 & J2 removed, J3 fitted as input voltage is approximately 66V.



PAC15T Tapped at 0.8W, BEL2 set to 7.5W. J1 & J2 removed, J3 fitted as input voltage is approximately 32V.

Fig 2 - Various connection notes when using the BEL2 with Next2 PAC15T speakers

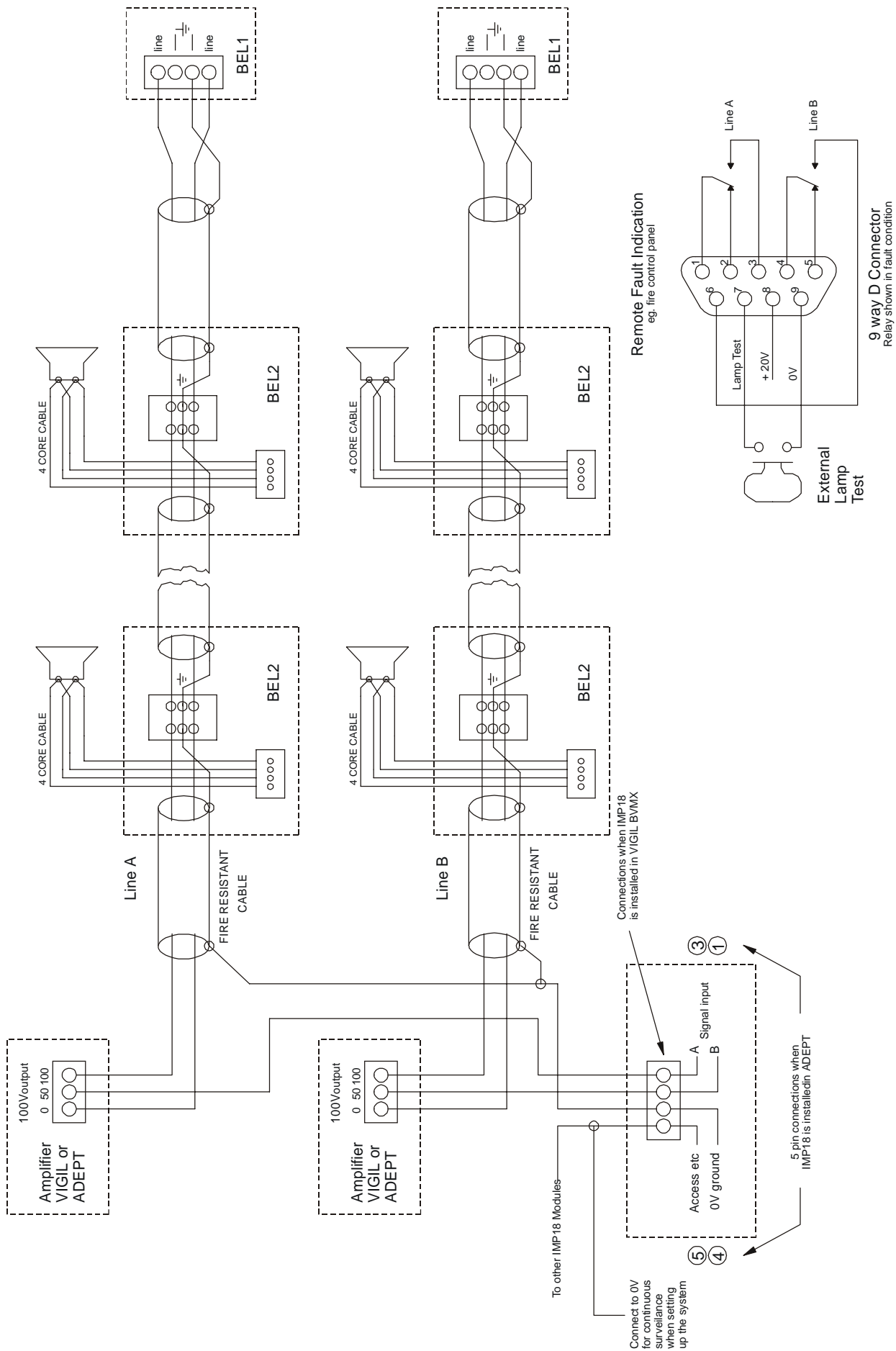


Fig 3 - Typical Voice Evacuation System using the BEL1, BEL2 and IMP18