

Wieland/Harting 10-Pin Connector Wiring

Subject: Wiring Scheme for 5-Circuit Multicore Cables	
Revised: 02 Sep 2005	By: Steve Reader
Category: Cables	File Reference: CA000002
Copyright © 2000, Adena Limited	Page: 1 of 1

Connector Wiring

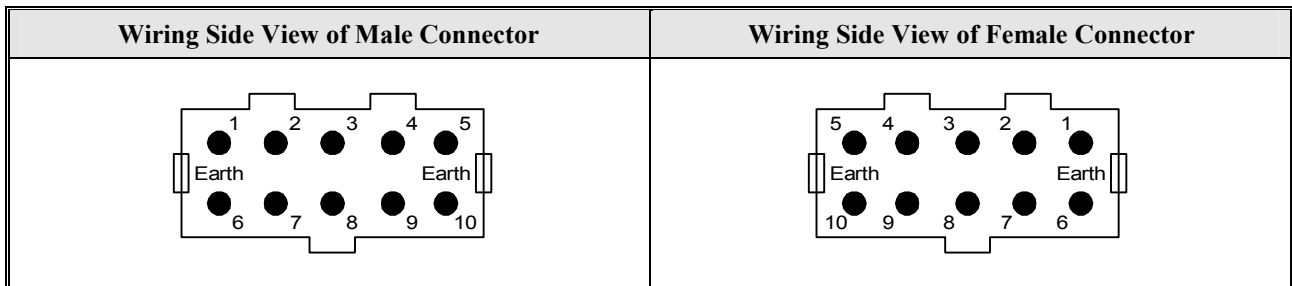
Recommended Wiring Scheme			
Pin	Purpose	Pin	Purpose
1	Phase 1	6	Neutral 1
2	Phase 2	7	Neutral 2
3	Phase 3	8	Neutral 3
4	Phase 4	9	Neutral 4
5	Phase 5	10	Neutral 5
Shell	Earth		

Alternative Wiring Scheme			
Pin	Purpose	Pin	Purpose
1	Phase 1	6	Neutral 3
2	Neutral 1	7	Phase 4
3	Phase 2	8	Neutral 4
4	Neutral 2	9	Phase 5
5	Phase 3	10	Neutral 5
Shell	Earth		

Notes:

1. There is no standard wiring scheme for these connectors in the stage lighting industry, however the recommended scheme shown above is the most commonly used. All cables manufactured by Adena use the recommended wiring scheme.
2. Some rental companies use the alternative wiring scheme shown above and some “abuse” the ten-pin connector by using it for six-channel systems with only three neutrals, or eight-channel systems with only two neutrals.
3. All pins are wired through the multicore cable pin for pin (pin-1 to pin-1, pin-2 to pin-2, pin-3 to pin-3, etc).
4. Select cable types with a minimum of ten conductors plus an earth conductor. If possible use a cable type that has eleven or twelve conductors plus an earth and wire the extra conductors in parallel with the earth conductor to improve the current carrying capacity of the earth.
5. The cables must be PAT tested and tagged to AS/NZS 3760 by an electrician or electrical service technician.

Connector Pins Layout



WARNING Do NOT mix the tails for multicore cables from different manufacturers and/or rental companies unless you have tested and are certain they are all wired according to the same wiring scheme. If the tails from two different wiring schemes are plugged onto opposite ends of a multicore cable a life threatening electrical hazard will result and serious damage to other connected equipment is likely.