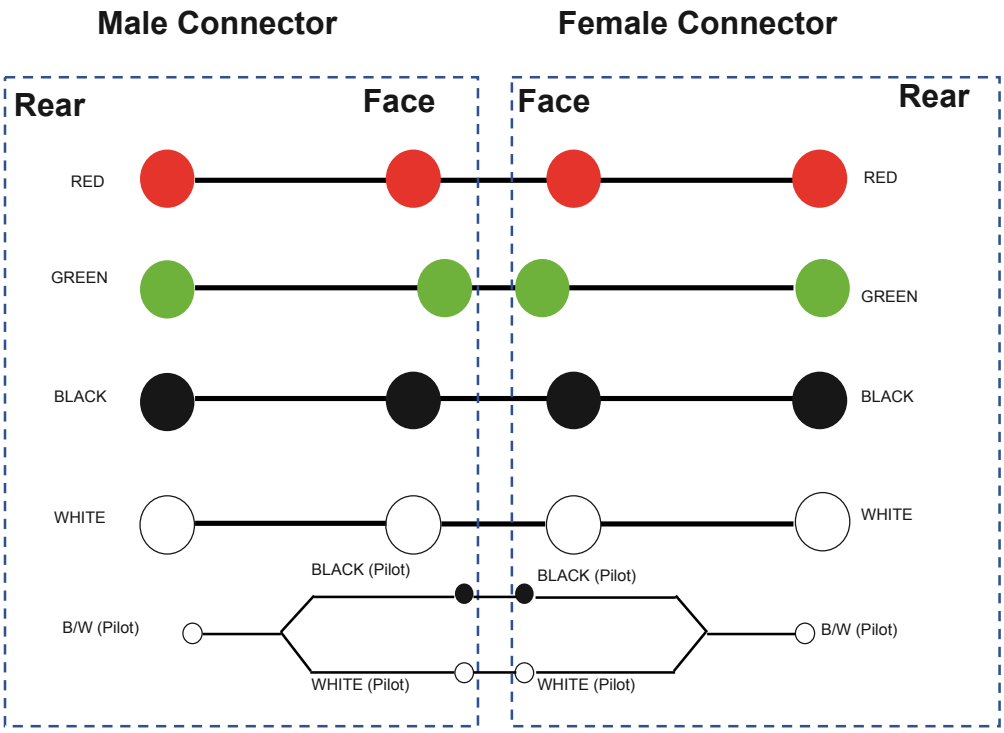


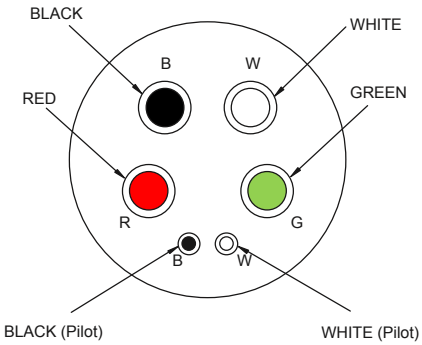
Wiring Connections – Single Pilot

Why are pilot cores included?

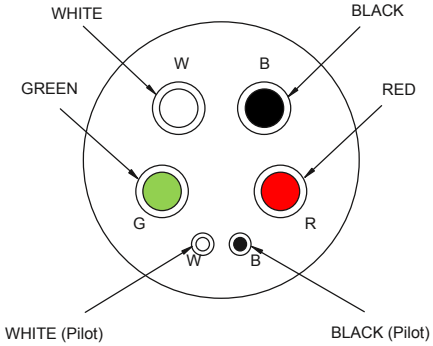
Trailing and reeling cables pose an elevated safety risk (e.g. a damaged trailing cable can lead to earthing faults and workers being exposed to electric shock hazards). They require specific design mitigation measures, which are detailed in the Mine Safety and Inspection Regulations.

Pilot cores are provided to allow the customer to monitor for earth continuity. This is typically done using an earth continuity protection relay to apply a low voltage DC signal between the pilot(s) and earth of the cable. By measuring this signal, the resistance of the circuit can be determined and protection operation initiated from a pre-tested value. The variance is indicative of a break in the earth return path, and possibly the cable itself. The protection system should interface with the control system of the mobile equipment such that a healthy status indication from the pilot cable is required prior to start.

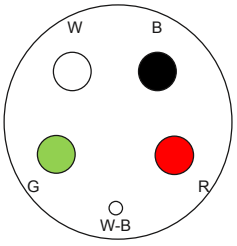
Mag30 1000V
LEVER ACTION
WIRING DIAGRAM



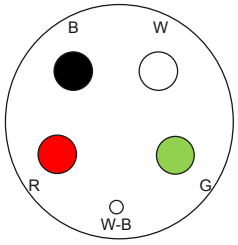
Female face view



Male face view



Female rear view
(Single Pilot)



Male rear view
(Single Pilot)

CSA Certified 600V
(SMS Rated to 1000V)