Electric Installation.

Installation and user instructions for **Eye** and **Media** cable managed desks

emergent

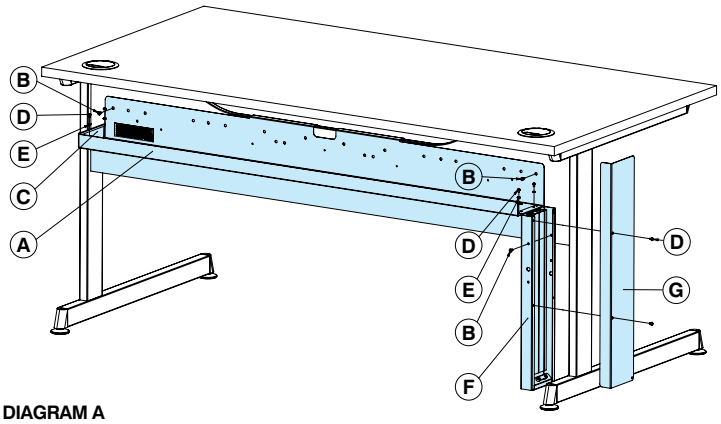

DIAGRAM A
Electrical items required

A. Media/Eye Trunking
B. No. 8 x ½" Woodscrew
C. Trunking End Cap
D. M4 Taptite Screw
E. Serrated Washer
F. Media Leg Riser
G. Leg Riser Cover

BS6396: 2008 Electrical Systems in Office Furniture & Educational Furniture

Electrical equipment and installations must be designed and tested to ensure their safety and to comply with statutory regulations, in particular the "Electricity at Work Regulations". Relevant British Standards may be used as a means of demonstrating safety and compliance with the regulations. In the case of electrical systems in office furniture and educational furniture, the relevant standard for systems connected to the mains supply by means of a 13A plug is BS 6396:2008.

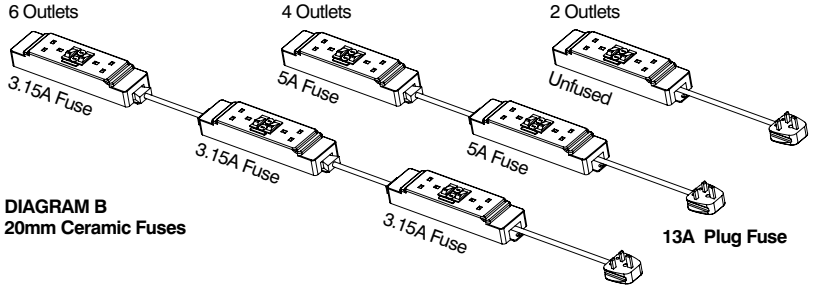

DIAGRAM B
20mm Ceramic Fuses

Sockets installed in office furniture are intended to supply office equipment with a rating not exceeding 5A with BS 6396 referring to all office furniture electrical installations when completed must be tested. Section 7 of BS 6396 sets out the procedures. These tests should also be carried out on reconfigured desks and screens as well as new installations. Periodic inspections and tests must be carried out to fulfil the requirements of BS 6396 and the "Electricity at Work Regulations" in maintaining a safe working environment.

Sockets installed in office furniture are intended to supply office equipment with a rating not exceeding 5A.

The diagrams on the left indicate the maximum number of socket outlets that may be connected from a single power supply cable fed from a 13 Amp BS 1363 plug and their relevant fuse ratings.

H. Cable Ties
K. No. 8 x ½" Self-Tapping Screw
J. No. 6 x ½" Countersunk Woodscrew

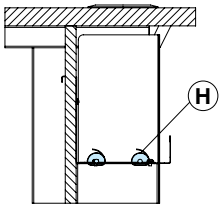

DIAGRAM C

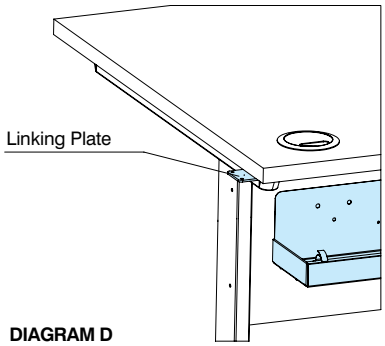

DIAGRAM D

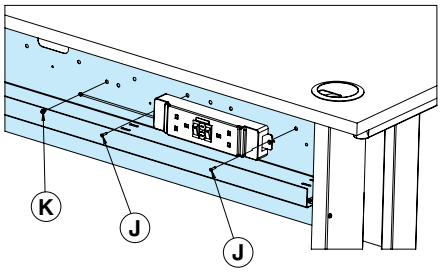

DIAGRAM E

It is important to bear in mind that there is always some risk involved in handling electrical equipment so all reasonable care must be taken in following these instructions to minimise the risk.

We recommend that a suitable qualified electrical engineer is used to install and test the power accessories and earthing provision. The cable management is of earthed construction. Maximum load 50Hz 13 amp. Maximum load per socket 5 amp.

For safety and compliance with BS.6396:2008 the following socket configurations and numbers must not be exceeded. (30Ma R.C.D 13 AMP mains plug optional) **SEE DIAGRAM B**.

On completion or re-configuration of the electrical system within the furniture the following electrical tests must be carried out. It is recommended that these tests are repeated at least annually for continued safety.

Continuity & Polarity.

A test of all conductors, including the protective earth conductor, Shall be made to verify their continuity and correct polarity. This test shall include the supply cord and plug. The electrical system shall be inspected to ensure that any fuses and any single pole switches fitted are connected only in the live conductor.

Insulation Resistance.

The insulation resistance of completed electrical installations shall be tested using a 500V D.C. test supply. The measured resistance shall be not less than 1 M ohm. Tests shall be made between conductors and also to earth of the supply cable. The duration of each test shall be not less than 5 seconds.

Note – Neon indicators shall be removed from the circuit before carrying out this test between conductors by switching off the socket outlet. Where luminaries contain sensitive electronic components, these shall be disconnected prior to the test (see 713-04-04 of BS 7671)

Earth Continuity.

Earth connections of the installed socket outlets and the accessible metal parts of the earthed office furniture shall be tested by passing a current of not less than 1.5 times the rating of the supply plug fuse and no greater than 25 A, derived from an a.c source with a load voltage not exceeding 12 V. The tests shall include the supply cord and shall be carried out between the earth pin of the supply plug, the earth connections of the installed socket outlets and where applicable the accessible metal parts of the earthed furniture. The duration of the tests shall be for a period 5 s and 20 s. The resistance shall not exceed 0.1 Ohm.

Trunking Assembly To Desking

SEE DIAGRAM A. Hang the trunking (**A**) over the modesty panel. Fasten to the modesty panel with 2 off No. 8 x ½" woodscrews (**B**). Fasten the trunking end cap (**C**) to the end of the trunking with 2 off M4 taptite screws and serrated washers (**D** & **E**). Fasten the leg riser (**F**) to the trunking with 2 off M4 taptite screws and serrated washers (**D** & **E**). Fasten the leg riser to the modesty panel with 1 off No. 8 x ½" woodscrew (**B**). Fasten the leg riser cover (**G**) to the leg riser with 2 off M4 taptite screws (**D**).

Cable Routes.

Where desks are linked together the best position for cables to enter is either at the beginning or end of a configuration. Cables will normally enter desks at the bottom of the leg riser and be anchored by the cable clamp provided. Where cables run from the building out to the desks, these exposed lengths [from the plug to the cable entry point or appliance inlet connector] should be as short as possible and must not exceed 2 metres. Cables should be positioned so as not to be a hazard to people walking by. Use cable ties (**H – SEE DIAGRAM C**) in the trunking slots to segregate power and data cables. Run power and data cables in separate channels in the leg riser plastic channel. Where cables run from desk to desk, these desks must be securely linked together using the plates provided. (**SEE DIAGRAM D**).

Power Socket Installation

SEE DIAGRAM E. First decide on the position of the socket inside the horizontal face of the trunking, then fasten through the socket lugs through clearance holes in trunking into the modesty panel with 2 off No. 6 x ½" csk woodscrews (**J**). Connect the socket earth lead to a nearby marked earth point with 1 off No. 8 x ½" self-tapping screw (**K**).

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