

Rubber Distribution Assemblies

The RDA series of portable, mains voltage Rubber Distribution Assemblies has been developed to meet the special requirements of applications such as Film and TV Lighting, Outdoor Broadcasts, Events, Exhibitions and Concerts.

RDAs are plug-in distribution assemblies that can incorporate a wide range of socket distribution, MCB and RCD protected. RDAs are normally made to order and we would be pleased to quote against specific requirements. The following points need to be specified at the time of inquiry.

Supply Input

(i) Appliance Inlet (fixed plug) or Glanded Cable with plug.

Appliance Inlets and Plugs are rated at 16A, 32A, 63A and 125A and can be 3P 230V or 5P 400V.

For inputs of 63A and above, an Appliance Inlet is recommended in preference to a glanded cable, which avoids the heavy flexible cable from straining the glanded entry. If cable and plug is preferred, we would normally fit an HO7 RN-F rubber cable. Please specify the length of cable.

Distribution and Protection

(ii) Quantity, Current rating and Voltage of each socket and the protection required. As standard we fit splashproof sockets to IPX4. Please specify if watertight sockets to IPX7 are required.

RDAs are available in a range of enclosure sizes and can be fitted with many different combinations of sockets to BS EN 60309-2. The socket current ratings are 16A, 32A, 63A or 125A and they can be 3P 230V or 5P 400V.

In most instances, sockets should be protected by 30 mA RCD. Protection can be Individual (one RCD per socket) or it can be Group (one RCD protecting a group of sockets). In practice, to avoid nuisance tripping, it is generally recommended to protect individually all 400V 5P sockets and 230V sockets above 32A rating. It may be acceptable to group protect 16A and 32A, 230V sockets, although this can vary from application to application. For supervised Film Lighting Installations to BS5550 Part 7, we can incorporate RCDs that can be disarmed via a TOK1 key operated switch.

Sockets that have a current rating less than the input plug or appliance inlet must be MCB protected.



32A 5P 400V Appliance Inlet, 1 x RCD; Individual MCBs, 5 x 16A 230V Sockets, 3 x 32A 230V sockets



32A 3P 230V Appliance Inlet, 1 x RCD; Individual MCBs, 4 x 16A 3P 230V sockets



32A 5P 400V Plug + 1M 6mm² HO7 5C Cable, Multiple MCB / RCDs, 4 x 230V and 2 x 400V Sockets

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