Let $\pi : \mathcal{E} \to X$ be a bundle of Banach algebras, where $X$ is a completely regular Hausdorff space. We identify the sets of irreducible representations of several topological subalgebras of $\Gamma(\pi)$, the space of continuous sections of $\pi$. These subalgebras include: $\Gamma_b(\pi)$, the space of bounded sections of $\pi$; and $\Gamma^c_b(\pi, \mathcal{D})$, the space of sections bounded on each set of a cover $\mathcal{D}$ of $X$, under the cover-strict topology determined by $\mathcal{D}$; and $\Gamma^c(\pi, \mathcal{D})$, the space of sections bounded on each set of a cover $\mathcal{D}$ of $X$ by $C_b$-embedded sets. The results unify recent and older work of various authors regarding representations on algebra-valued function spaces. (Received September 20, 2018)