$$
\begin{array}{ccccccccc}
& & & & (-,?)_{\mathcal{T}} & \longrightarrow & 0 & & \\
& & & & \downarrow{\scriptstyle (\kappa_i)_*} & & \downarrow & & \\
0 & \longrightarrow & \ker[(\pi_i)_S] & \longrightarrow & (-,X_i)_{\mathcal{T}} & \overset{(\pi_i)_S}{\longrightarrow} & F(-) & \longrightarrow & 0 \\
& & \downarrow & & \downarrow{\scriptstyle (\phi_i)_*} & & \| & & \\
0 & \longrightarrow & \ker[(\pi_{i+1})_S] & \longrightarrow & (-,X_{i+1})_{\mathcal{T}} & \overset{(\pi_{i+1})_S}{\longrightarrow} & F(-) & \longrightarrow & 0
\end{array}
$$