$$X_0 \circ FA > C$$
  $Y_0 \circ FA > S$   $S_0 \circ S_0$ 
 $C_0 \circ FA > S$   $S_0 \circ S_0$ 
 $A \circ HA > C$   $A \cdot B$   $C \cdot (A \oplus B) + A \cdot B$   $C \cdot (A \oplus B) + A \cdot B$   $C \cdot (A \oplus B) \circ S_0 = A \oplus B \oplus C$