

| Topology | Current | Simplified current |
|--|---|---|
| $S \rightarrow [S_1 S_2]$ | $S_1 S_2$ | |
| $S \rightarrow [V S_1]^{L=1}$ | $L^\mu V_\mu S_1$ | |
| $S \rightarrow [V_1 V_2]^{L=0}$ | $g_{\mu\nu} V_1^\mu V_2^\nu$ | |
| $S \rightarrow [V_1 V_2]^{L=1}$ | $\varepsilon_{\mu\nu\alpha\beta} P_S^\mu L^\nu V_1^\alpha V_2^\beta$ | $\varepsilon_{\mu\nu\alpha\beta} P_S^\mu Q_S^\nu V_1^\alpha V_2^\beta$ |
| $S \rightarrow [V_1 V_2]^{L=2}$ | $L_{\mu\nu} V_1^\mu V_2^\nu$ | |
| $S \rightarrow [T S_1]^{L=2}$ | $L_{\mu\nu} T^{\mu\nu} S_1$ | |
| $S \rightarrow [T V]^{L=1}$ | $L^\mu T_{\mu\nu} V^\nu$ | |
| $S \rightarrow [T V]^{L=2}$ | $L^{\mu\nu} \varepsilon_{\nu\alpha\beta\gamma} P_S^\alpha T_\mu^\beta V^\gamma$ | $\varepsilon_{\nu\alpha\beta\gamma} P_S^\alpha Q_S^\nu L_\mu T^{\beta\mu} V^\gamma$ |
| $S \rightarrow [T_1 T_2]^{L=0}$ | $T_1^{\mu\nu} T_{2\mu\nu}$ | |
| $V_\mu \rightarrow [S_1 S_2]^{L=1}$ | $S_{\mu\nu} L^\nu S_1 S_2$ | $L_\mu S_1 S_2$ |
| $V_\mu \rightarrow [V_1 S]^{L=0}$ | $S_{\mu\nu} V_1^\nu S$ | |
| $V_\mu \rightarrow [V_1 S]^{L=1}$ | $S_{\mu\nu} \varepsilon^{\nu\alpha\beta\gamma} P_{V\alpha} L_\beta V_{1\gamma} S$ | $-\varepsilon_{\mu\alpha\beta\gamma} P_V^\alpha Q_V^\beta V_1^\gamma S$ |
| $V_\mu \rightarrow [V_1 S]^{L=2}$ | $S_{\mu\nu} L^\nu V_{1\alpha} S$ | $L_{\mu\alpha} V_1^\alpha S$ |
| $V_\mu \rightarrow [T S]^{L=1}$ | $S_{\mu\nu} L_\alpha T^{\nu\alpha}$ | |
| $V_\mu \rightarrow [T S]^{L=2}$ | $S_{\mu\nu} \varepsilon^{\nu\alpha\beta\gamma} P_{V\alpha} L_\beta^\eta T_{\gamma\eta} S$ | $-\varepsilon_{\mu\alpha\beta\gamma} P_V^\alpha Q_V^\beta T^{\gamma\eta} L_\eta$ |
| $V_\mu \rightarrow [T V_1]^{L=0}$ | $S_{\mu\nu} T^{\nu\alpha} V_{1\alpha}$ | |
| $T_{\mu\nu} \rightarrow [S_1 S_2]^{L=2}$ | $S_{\mu\nu\alpha\beta} L^{\alpha\beta} S_1 S_2$ | $L_{\mu\nu} S_1 S_2$ |
| $T_{\mu\nu} \rightarrow [V S]^{L=1}$ | $S_{\mu\nu\alpha\beta} L_1^\alpha V^\beta S$ | $\left(\frac{1}{2}(L_\mu S_{\nu\beta} + S_{\mu\beta} L_\nu) - \frac{1}{3} S_{\mu\nu} L_\beta\right) V^\beta$ |
| $T_{\mu\nu} \rightarrow [V S]^{L=2}$ | $S_{\mu\nu\alpha\beta} \varepsilon^{\alpha\gamma\eta\lambda} P_{T\gamma} L_{2\eta}^\beta V^\lambda S$ | $-\frac{1}{2}(\varepsilon_{\mu\gamma\eta\lambda} L_\nu + \varepsilon_{\nu\gamma\eta\lambda} L_\mu) P_T^\gamma Q_T^\eta V^\lambda$ |
| $T_{\mu\nu} \rightarrow [T_1 S]$ | $S_{\mu\nu\alpha\beta} T_1^{\alpha\beta}$ | |