$$\mathcal{K}^{(2);\text{qk}}_{\text{ph};1234;\sigma\sigma'} = \quad F^{\text{qkk}_1}_{\text{ph};12ab \atop \sigma\sigma_1} \quad \mathcal{U}^{\text{qk}_1}_{\text{ph};ba34 \atop \sigma_1\sigma'} \quad - \mathcal{K}^{(1);\text{q}}_{\text{ph};1234;\sigma\sigma'}$$