



1. COPPER CONDUCTOR
2. EXTRUDED CONDUCTOR SCREEN
3. XLPE INSULATION
4. EXTRUDED INSULATION SCREEN
5. SEMI CONDUCTING SWELLING TAPE(S)
6. LEAD ALLOY SHEATH
7. SEMICONDUCTING SWELLING BEDDING TAPE(S)
8. FLAT COPPER WIRE SHIELD
9. OPTICAL FIBER IN STAINLESS STEEL TUBE
10. SEMI CONDUCTING SWELLING BINDER TAPE(S)
11. POLYETHYLENE SHEATH
12. POLYPROPYLENE YARN BEDDING
13. FIRST STEEL WIRE ARMOR
14. POLYPROPYLENE YARN BINDER
15. SECOND STEEL WIRE ARMOR
16. POLYPROPYLENE YARN SERVING

**Figure 4-13a**

**Cross Section of the Proposed 230 kV XLPE Submarine Cable with Double Steel Armoring Design**