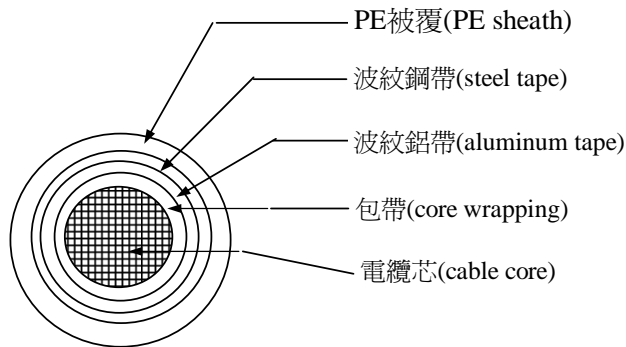


# 發泡、充實聚乙烯雙層絕緣鋁帶鋼帶聚乙烯被覆(FS-STP)市內電纜

## FOAM-SKIN POLYETHYLENE INSULATED STALPETH SHEATHED CABLE



**本**電纜係充實、發泡、充實聚乙稀三層絕緣(Skin-Foam-Skin)、星紋型(Star quad)、鋁帶鋼帶聚乙烯被覆(Stalpeth)市內電纜，適用於交換局與用戶間之幹線線路或局間中繼線路，具有優良之傳輸特性及易於施工之機械特性，對於潮濕、觸電、電蝕、化學腐蝕及感應干擾都有良好之防護措施，簡稱FS-STP市內電纜。



FS-STP cable provides the excellent properties of moisture resistant, line transmission, mechanical intensity and handling flexibly. The cable is used for trunking between telephone offices and feeding between offices and subscribers.

### 構造及概要

芯線：0.4、0.5、0.65、0.9mm之導體。

絕緣：彩色充實、發泡、充實聚乙稀。

星紋：四條不同顏色芯線絞合而成。

簇之構成：

(1) 10對簇：由20條芯線絞合成5個星紋，再依指定之顏色及排列順序絞合成10對簇，其外並以可辨別對序之著色塑膠帶疏捲之。如圖 1

(2) 50對簇：由5個10對簇集成圓柱之50對簇，同層之10對簇採同一左向或同方向同時間交互反轉(SZ方式)集合，每50對簇並依指定之著色塑膠帶疏捲之，分為標蹤簇及普通簇，如圖 1及圖2

(3) 100對簇：由10個10對簇集成圓柱之100對簇，其絞合方式及疏捲方式同50對簇，如圖 1及圖2

集合方式：以絞合完成之50對簇及100對簇做為基本單位，依所需要之對數，緊密集成圓柱狀電纜芯，如圖 2

包捲帶：一張麥拉帶、兩張不織布帶、一張止水不織布帶。

鋁帶鋼帶：(1)縱包波紋鋁帶，厚度 $0.2\pm 0.05\text{mm}$ ，開口寬度5~15mm。

(2)縱包波紋鋼帶，厚度 $0.18\pm 0.05\text{mm}$ ，重疊寬度5~25mm。

防濕塗料：瀝清。

被覆：黑色聚乙稀。

### Construction

#### Conductor:

Solid annealed copper wire diameter 0.4, 0.5, 0.65 and 0.9 mm.

#### Insulation:

Physical Foam-Skin-polyethylene.

#### Quadding:

Four insulated conductors in different color are twisted into symmetrical star quad.

#### Unit structure:

(1) 10-pair unit:

Stranded five quads and binded with color tape into a 10-pair unit given in Figure 1

(2) 50-pair unit:

Five 10-pair units shall be stranded into a 50-pair subunit and binded with different color tape to identify between tracer subunit and common subunit given in Figure 1 & 2.

(3) 100-pair unit:

Ten 10-pair units shall be stranded into a 100-pair subunit and binded with different color tape to identify between tracer subunit and common subunit given in Figure 1 & 2.

#### Cable core stranding:

The certain subunits shall be stranded into a compact and cylindrical cable core shown in Figure 2.

#### Core wrapping:

The non-hygroscopic and water-blocking tapes are used on cable core.

#### Aluminum and steel shielded tape:

(1)The thickness 0.2mm approx. of corrugated Al. tape is longitudinally applied with width of gap 1~15mm.

(2)The thickness 0.18mm approx. of corrugated steel tape is longitudinally applied with overlap width 5~25mm

#### Flooding compound:

Bitumen based flooding compound.

#### Sheath:

High molecular weight black polyethylene.