

## 前言 PREFACE

一般含鹵素(如氟、氯等)之材料，由於具有耐化學藥品侵蝕、耐油、耐燃、以及低廉(如PVC)等多項優點，已被廣泛地應用於電線電纜上。但是含鹵素之材料燃燒時不但會產生濃煙，而且釋放出毒氣(如HCl，HF等)，阻礙火災時之逃生及救災工作，更造成人命之傷亡及機器設備之腐蝕，越來越多的事實如倫敦地下鐵車站火災等，可以證明。而且複合材料由於不會自行分解，燃燒時更會造成空氣污染，產生二次公害，歷年來更由於環保意識之提高，使得人們越來越重視無污染材料之研究，而低煙無毒材料因應而生，適可解決這些問題。

本公司秉持一貫之作風與信念，經不斷地研究，試驗，開發成功低煙無毒電纜。為了維護社會的安全及潔淨的生存空間，敬請舊雨新知惠顧選用為禱。

PVC had been used as the sheathing materials of cables for a long period. This is not only its excellent physical properties but mainly the effects of flame retardance. These properties of PVC are obtained by additives of chloride.

However, the dense choking smoke and deadly hydrochloric acid gas created by rapidly burning standard PVC cables are a hazard in public buildings, power stations, ships, subways and underground in mines.

A lack of visibility can cause panic and seriously hamper personnel evacuation in fire-fighting efforts.

Corrosive hydrochloric acid gas can cause irreparable damage to sensitive electrical equipment and the plant structure itself.

To overcome these problems. PEWC(PACIFIC ELECTRIC WIRE & CABLE CO., LTD.) had succeeded in developing a new type of cable with special sheathing materials called LOW SMOKE, FREE HALOGEN(LSFH) flame retardant material. Which emits few smoke and no halogen gas in the case of fire and have excellent flame retardant properties.