



Loop Feeder Cable to BS6346

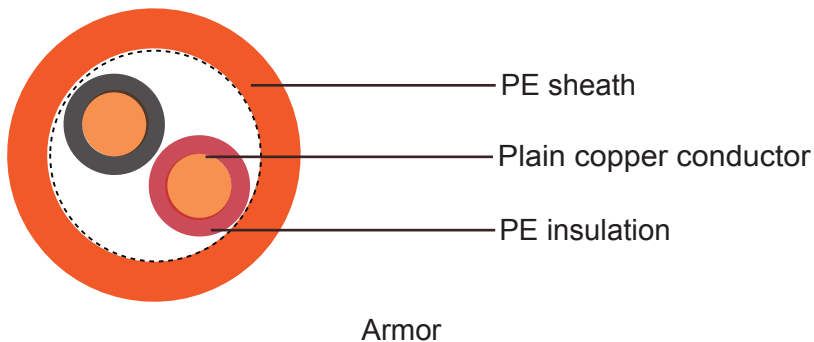
Application

Loop Feeder Cable is used to connect traffic lights to the central control management system. The cables come in armoured, for direct burial, or unarmoured for applications where additional mechanical protection has been afforded by other means such as ducting. The Loop feeder cables are supplied in a highly visible orange for easy location of buried services. These cables are also suitable for use in small power, lighting or control circuits.

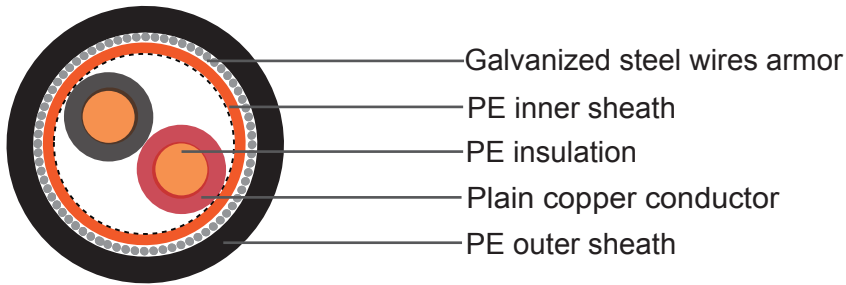
Standard and Approval

BS 6346, BS 6360, BS 6234

Cable Construction



- **Conductor:** Conductor: Solid plain annealed copper, comply with BS 6360, Class 1
- **Insulation:** Polythene (PE), comply with BS 6234, type 03
- **Pairing:** Two insulated conductors twisted together, four cores laid up as a quad
- **Bedding (for Armoured Cable Only):** Polythene (PE), comply with BS 6234, type 03
- **Armor (for Armoured Cable Only):** Galvanized steel wires
- **Sheath:** Polythene (PE), comply with BS 6234, type 03
- **Sheath Colour:** Orange



Unarmor

Core Identification

1 pair – red, black

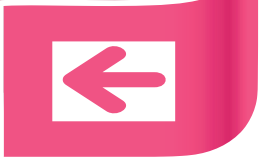
2 pair –red, yellow, blue, black laid up in quad formation in order of rotation:

Technical Characteristics

- **Rated voltage:** 600/Kft volts
- **Conductor Resistance: at 20°C:** 12.1ohms/km(1.5mm²)
7.41 ohms/km(2.5mm²)
- **Minimum bending radius:** 7.5 x Ø
- **Temperature range:** -20° C - +70° C
- **Loop inductance:** 630µH/km(1P) 720µH/km(2P)
- **Capacitance:**

unarmored		armored	
1.5 mm ²	2.5 mm ²	1.5 mm ²	2.5 mm ²
<75 pF/m	39 pF/m (1P)	<75 pF/m	64 pF/m (1P)
	52 pF/m (2P)		53.5 pF/m (2P)





Cable Parameter

Number of Cores	Nominal Conductor Area	Nominal Conductor Stranding	Insulation Thickness	Bedding Thickness	Nominal diameter of armour wire	Sheath Thickness	Nominal O/D	Approx Cable Weight
	mm ²	NO./mm	mm	mm	mm	mm	mm	Kg/km
Non armored cables								
2 (1pr)	1.5	1/1.38	0.64	-	-	1.3	9.0	80
4 (2pr)	1.5	1/1.38	0.64	-	-	1.3	9.1	123
2 (1pr)	2.5	1/1.78	0.74	-	-	1.4	9.3	110
4 (2pr)	2.5	1/1.78	0.74	-	-	1.4	10.7	180
Armored cables								
2 (1pr)	1.5	1/1.38	0.64	0.8	0.9	1.3	11.8	230
4 (2pr)	1.5	1/1.38	0.64	0.8	0.9	1.3	12.7	295
2 (1pr)	2.5	1/1.78	0.74	0.8	0.9	1.4	12.5	279
4 (2pr)	2.5	1/1.78	0.74	0.8	0.9	1.4	15.0	378