Traffic Signal Cable to BS 6346

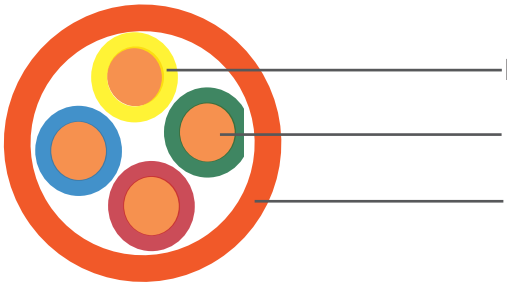
Application

Traffic signal cable is used for the interconnection of traffic signal equipment or other applications requiring high core configurations with mechanical robustness..

Standard and Approval

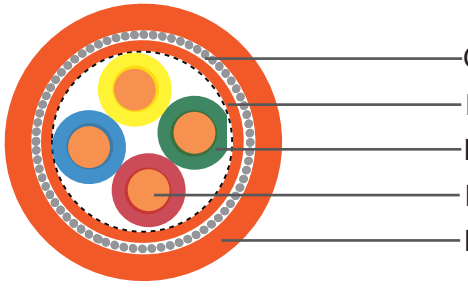
BS 6346, BS 6360, BS 7655

Cable Construction



Unarmor

- **Conductor:** Solid plain annealed copper, comply with BS 6360, Class 1
- **Insulation:** Polyvinyl chloride (PVC), TI1, comply with BS 7655
- **Bedding(for Armoured Cable Only):** Polyvinyl chloride (PVC) compound
- **Armor(for Armoured Cable Only):** Galvanized steel wire armor
- **Sheath:** Polyvinyl chloride (PVC), TM1, comply with BS7655
- **Sheath color:** Orange



Armor

Core Identification

4 core - Red, Blue, Yellow, Green

8 core - Brown, Yellow, Green, Red, White, Blue, Black, Orange

12 core - Brown, Yellow, Green, Red, White, Blue, Black, Orange, Red/White, Grey, Red/Blue, Violet

16 core - Brown, Yellow, Green, Red, White, Blue, Black, Orange, Red/White, Grey, Red/Blue, Violet, Brown/Red, Yellow/Red, Grey/Red, Black/Red

20 core - Brown, Yellow, Green, Red, White, Blue, Black, Orange, Red/White, Grey, Red/Blue, Violet, Brown/Red, Yellow/Red, Grey/Red, Black/Red, Violet/Red, Orange/Red, Green/Red, Blue/White

Technical Characteristics

- **Rated voltage:** 600/Kft volts
- **Conductor Resistance: at 20°C:** 18.1ohms/km(1.0mm^2)
  12.1 ohms/km(1.5mm^2)
- **Minimum bending radius:** 6 x Ø
- **Temperature range:** -15° C - +70° C
- **Short circuit temperature:** 160°C
- **Flame retardant:** BS EN 60332-1-2

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								
8	1.0	1/1.13	0.63	-	-	1.4	12.6	218
12	1.0	1/1.13	0.63	-	-	1.5	13.5	305
8*	1.0	1/1.13	0.63	-	-	1.4	14.5	523
Armored cables								
4	1.0	1/1.13	0.63	0.8	0.9	1.4	13.3	325

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
8	1.0	1/1.13	0.63	0.8	0.9	1.4	15.6	413
12	1.0	1/1.13	0.63	0.8	1.25	1.5	17.9	567
16	1.0	1/1.13	0.63	0.8	1.25	1.5	19.9	774
20	1.0	1/1.13	0.63	0.8	1.25	1.6	22.0	905
4	1.5	1/1.38	0.63	0.8	0.9	1.4	12.5	363
8	1.5	1/1.38	0.63	0.8	0.9	1.4	15.8	534
12	1.5	1/1.38	0.63	0.8	1.25	1.5	18.5	704
16	1.5	1/1.38	0.63	0.8	1.25	1.6	20.0	836
20	1.5	1/1.38	0.63	0.8	1.25	1.6	21.5	1040
8*	1.0	1/1.13	0.63	0.8	0.9	1.4	16.3	533

* includes additional 6mm^2 integral earth conductor