

BS 6346 UNARMoured PVC TRAFFIC SIGNAL CABLE



APPLICATION

Unarmoured PVC traffic signal cable used to connect traffic signal equipment or other applications that require high core configurations where there is not a danger of mechanical impact.

CABLE STANDARDS

BS6346/87

CONSTRUCTION

Conductor: Annealed Solid Copper Conductor

Insulation: Polyvinyl Chloride (PVC)

Sheath: Polyvinyl Chloride (PVC)

Sheath Colour: Orange

CHARACTERISTICS

Voltage Rating: 600/1000V

Temperature Limits: -15°C to +70°C

Minimum Bending Radius:
As per cable manufacturer datasheet

Should not be installed at temperatures below 0°C

CORE COLOURS:

4 Core:	Red	Blue	Yellow	Green				
8 Core:	Brown	Yellow	Green \ Blue	Red	White	Blue	Black	Orange
12 Core:	Brown Red \ White	Yellow Grey	Green \ Blue Red \ Blue	Red Violet	White	Blue	Black	Orange
16 Core:	Brown Red \ White	Yellow Grey	Green \ Blue Red \ Blue	Red Violet	White Brown \ Red	Blue Yellow/Red	Black Grey / Red	Orange Black / Red
20 Core:	Brown Red \ White Violet \ Red	Yellow Grey Orange \ Red	Green \ Blue Red \ Blue Green \ Red	Red Violet Blue \ White	White Brown \ Red	Blue Yellow/Red	Black Grey / Red	Orange Black / Red

BS 6346 UNARMoured PVC TRAFFIC SIGNAL CABLE -DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NUMBER OF CORES	WEIGHT (Kg/Km)	OVERALL DIAMETER (MM)	GLAND SIZE
TRAF8X1NA	1	1/1.13	8	218	12.6	20
TRAF12X1NA	1	1/1.13	12	305	13.5	25
TRAF8X1E*	1	1/1.13	8	523	14.49	25
TRAF12X1E*	1	1/1.13	12	785	15.5	25

*Includes additional 6mm integral earth conductor

BS 6346 UNARMoured PVC TRAFFIC CABLE – ELECTRICAL CHARACTERISTICS

NUMBER OF CORES	CONDUCTOR SIZE (MM ²)	MAXIMUM CONDUCTOR RESISTANCE AT 20°C ohms/km	CURRENT CARRYING CAPACITY		VOLTAGE DROP mV/A/m
			In Air (Amps)	Direct Burial (Amps)	
8	1	18.1	12	10.5	38
12	1	18.1	10	8.7	38
16	1	18.1	9	8	38
20	1	18.1	8	7.1	38
8	1.5	12.1	15	13.5	25
12	1.5	12.1	13	11.7	25
16	1.5	12.1	11	10	25
20	1.5	12.1	10	9.1	25

The above is in accordance with 18th Edition of IET Wiring Regulations