

BS 6346 ARMoured PVC TRAFFIC SIGNAL CABLE



APPLICATION

Armoured PVC traffic signal cable used to connect traffic signal equipment or other applications that require high core configurations with tough mechanical robustness.

CABLE STANDARDS

BS6346/87

CONSTRUCTION

- Conductor:** Annealed Solid Copper Conductor
- Insulation:** Polyvinyl Chloride (PVC)
- Bedding:** Polyvinyl Chloride (PVC)
- Armour:** Galvanised Steel Wire (SWA)
- Sheath:** Polyvinyl Chloride (PVC)
- Sheath Colour:** Orange

CHARACTERISTICS

- Voltage Rating:** 600/1000 Volts
- Temperature Limits:** -15°C to +70°C
- Minimum Bending Radius:** As per cable manufacturer datasheet

CORE IDENTIFICATION

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

BS 6346 ARMoured PVC TRAFFIC SIGNAL CABLE -DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO OF CORES	WEIGHT (KG/KM)	OVERALL DIAMETER (MM)	GLAND SIZE
TRAF8X1	1	1/1.13	8	413	15.6	20S
TRAF12X1	1	1/1.13	12	567	17.9	20
TRAF16X1	1	1/1.13	16	774	19.9	20
TRAF20X1	1	1/1.13	20	905	22	25
TRAF4X1/5	1.5	1/1.38	4	363	12.5	20S
TRAF8X1/5	1.5	1/1.38	8	534	15.8	20
TRAF12X1/5	1.5	1/1.38	12	704	18.5	20
TRAF16X1/5	1.5	1/1.38	16	836	20	20
TRAF20X1/5	1.5	1/1.38	20	1040	21.5	25
TRAF27X1/5	1.5	1.138	27	1280	23.75	
TRAF8X1ESWA*	1	1/1.13	8	533	16.3	20

*INCLUDES ADDITIONAL 6MM INTEGRAL EARTH CONDUCTOR

BS 6346 ARMoured 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 TABLE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.