

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 Green 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.