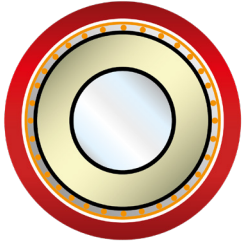


BS7870 11KV SINGLE CORE SAC MDPE SCREENED CABLE



APPLICATION

Suitable for power networks, underground, outdoors and installation in cable ducting.

Please note: the red outer sheath can be prone to fading when exposed to UV rays.

CABLE STANDARDS

BS 7870-4-10

EN / IEC 60228

Flame propagation to BS EN60332

SPEN CAB-03-020.

CONSTRUCTION

Conductor: Class 1 Solid Circular Compacted Aluminium Conductor

Screen: Dry Cured Semi Conducting Compound

Insulation: Cross Link Polyethylene (XLPE)

Screen: Fully bonded insulation Compound

Metallic Screen: Helically applied wires over copper tape screen

Waterblocking Barrier: Matel tape with water blocking tape on top and underneath

Sheath: MDPE outer sheath

Sheath Colour: ■ Red

CHARACTERISTICS

Voltage Rating: 6350/11000 Volts (12KV)
Tested to Voltage and Duration of BS7870

Temperature Limits: -15°C to 90°C

Minimum Bending Radius: As per cable manufacturer datasheet

Should not be installed at temperatures below 0°C or above +60°C

BS7870 11KV SINGLE CORE SAC MDPE SCREENED CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	METALLIC SHIELD (MM ²)	NO. OF CORES	CONDUCTOR THICKNESS (MM)	INSULATION THICKNESS (MM)	OUTER SHEATH THICKNESS (MM)	WEIGHT (KG/KM)	APPROX OVERALL DIAMETER (MM)		
								CONDUCTOR	INSULATION & SCREENS	OVERALL MM
SPEN11KVM DPE1X95	95	35	1	0.3	0.3	1.8	980	10.7	18.7	28
SPEN11KVM DPE1X185	185	35	1	0.3	0.3	1.9	1330	15.2	23.2	33
SPEN11KVM DPE1X300	300	35	1	0.3	0.3	3.4	1760	19.4	27.4	38

BS7870 11KV SINGLE CORE SAC MDPE CABLE – ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	MAXIMUM CONDUCTOR DC RESISTANCE AT (20°C Ω/Km)	CONDUCTOR AC RESISTANCE (90°C Ω/KM)	RESISTANCE AT 50HZ (Ω/KM)	CAPACITANCE mF/Km	CHARGING CURRENT (MA/m)	IMPEDENCE (Ω/KM)	CURRENT RATING IN TREFOIL			1 SECOND SHORT CIRCUIT RATING OF CONDUCTOR kA	1 SECOND SHORT CIRCUIT RATING OF METALLIC SCREEN kA
							LAI D IN GROUND	LAI D IN 100MM SINGLE WALL DUCT OR 150MM DOUBLE WALL DUCT	LAI D IN FREE AIR		
95	0.320	0.411	0.119	0.31	0.61	0.336	255	226	296	8.9	9.3
185	0.164	0.211	0.107	0.41	0.80	0.181	368	326	446	17.4	12.8
300	0.100	0.130	0.100	0.49	0.97	0.119	481	425	605	28.3	12.8

THE ABOVE IS IN ACCORDANCE WITH SPEN CAB-03-020.

ELECTRICAL DATA:

Maximum conductor operating temperature: 90°C
 Maximum screen operating temperature: 80°C
 Maximum conductor temperature during S.C: 250°C

LAYING CONDITIONS AT TREFOIL FORMATION ARE AS BELOW:

Soil thermal resistivity: 1.2°K. m/W
 Burial depth: 0.6m
 Ground temperature: 15°C
 Air temperature: 25°C
 Frequency: 50Hz

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.