

BS 5467 Steel Wire Armoured Multicore Control Cable

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**RoHS
Compliant**



Application:

Multicore PVC cable with steel wire armour (SWA). These power and auxiliary control cables are ideal for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

Cable Standards:

BS 5467, BS EN/IEC 60502-1, BS EN/IEC 60332-1-2

Construction:

Conductor	: Class 2 stranded annealed copper conductor according to BS EN 60228 (previously BS 6360)
Insulation	: XLPE (Cross-Linked Polyethylene)
Bedding	: PVC (Polyvinyl Chloride)
Armour	: SWA (Steel Wire Armour)
Sheath	: PVC (Polyvinyl Chloride)

Characteristics:

Voltage Rating (Uo/U)	: 600/1000V
Temperature Rating	: Fixed: -25°C to +90°C
Min. Bending Radius	: Fixed: 6 × overall diameter
Core Identification	: 2 core: Brown & Blue 3 core: Brown, Black & Grey 4 core: Brown, Blue, Black & Grey
Sheath Colour	: Black

Electrical Characteristics:

Current Carrying Capacity

Nominal Cross Sectional Area mm ²	Reference Method C (Clipped Direct)		Reference Method E (In Free Air Or on A Perforated Cable Tray, Horizontal Or Vertical)		Reference Method D (Direct in Ground Or in Ducting in Ground, In Or Around Buildings)	
	1 Two Core Cable Single-Phase AC or DC Amps	1 Three or 1 Four Core Cable Three-Phase AC Amps	1 Two Core Cable Single-Phase AC or DC Amps	1 Three or 1 Four Core Cable Three-Phase AC Amps	2 Cables Single-Phase AC or DC flat or touching Amps	3 or 4 Cables Three-Phase AC flat and touching or trefoil Amps
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4	49	42	52	44	43	36
6	62	53	66	56	53	44

Air ambient temperature: 30°C

Ground ambient temperature: 20°C

Conductor operating temperature: 90°C

The above table is in accordance with Table 4E4A of the 17th Edition of IEE Wiring Regulations.

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Voltage Drop

Nominal Cross Sectional Area mm ²	Two Core Cable DC	Two Core Cable Single-Phase AC mV/A/m	Three Or Four Core Cable Three-Phase AC mV/A/m
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8

Conductor operating temperature: 90°C

The above table is in accordance with Table 4E4B of the 17th Edition of IEE Wiring Regulations.

Conductors:

Class 2 Stranded Conductors for Multicore Cables

Nominal Cross Sectional Area mm ²	Min. No. of Wires in Conductor	Max. Resistance of Conductor at 20°C
	Circular	Annealed Copper Conductor
	Cu	Plain Wires Ω/km
1.5	7	12.1
2.5	7	7.41
4	7	4.61
6	7	3.08

The above table is in accordance with BS EN 60228 (previously BS 6360)

Dimensions:

Part Number	No. of Cores	Nominal Cross Sectional Area mm ²	No. of Strands × Strand size	Nominal Thickness of Insulation mm	Nominal Diameter mm		Nominal Weight kg/km
					Under Armour	Overall	
PP-6942X1.5MM XLPE/SWA/PVC	2	1.5	7 × 0.53mm	0.6	7.3	12.1	302
PP-6943X1.5MM XLPE/SWA/PVC	3				7.8	12.6	330
PP-6943X2.5MM XLPE/SWA/PVC		2.5	7 × 0.67mm	0.7	9.2	14.1	390
PP-6943X4.0MM XLPE/SWA/PVC		4	7 × 0.85mm		10	15.3	464
PP-6943X6.0MM XLPE/SWA/PVC	4	6	7 × 1.04mm	0.7	11.2	16.6	568
PP-6944X1.5MM XLPE/SWA/PVC		1.5	7 × 0.53mm		0.6	8.5	13.3
PP-6944X2.5MM XLPE/SWA/PVC		2.5	7 × 0.67mm	0.7	9.9	15	438

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Part Number Table

Description	Reel Length (m)	Part Number
Cable, SWA, PVC, 2 Core, 1.5mm ²	50	PP-6942X1.5MM XLPE/SWA/PVC
Cable, SWA, PVC, 3 Core, 1.5mm ²		PP-6943X1.5MM XLPE/SWA/PVC
Cable, SWA, PVC, 3 Core, 2.5mm ²		PP-6943X2.5MM XLPE/SWA/PVC
Cable, SWA, PVC, 3 Core, 4mm ²		PP-6943X4.0MM XLPE/SWA/PVC
Cable, SWA, PVC, 3 Core, 6mm ²		PP-6943X6.0MM XLPE/SWA/PVC
Cable, SWA, PVC, 4 Core, 1.5mm ²		PP-6944X1.5MM XLPE/SWA/PVC
Cable, SWA, PVC, 4 Core, 2.5mm ²		PP-6944X2.5MM XLPE/SWA/PVC

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