



RoHS Compliant

Application

Multi-core PVC cable with steel wire armour (SWA). Power and auxiliary control cables 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 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 : 1.5mm² to 16mm² - Fixed: 6 × overall diameter

Core Identification : 2 core: Brown & Blue

3 core: Brown, Black & Grey 4 core: Brown, Blue, Black & Grey

Alternative Core Identification : White cores with Black numbers

Sheath Colour : Black

Electrical Characteristics

Current Carrying Capacity

		Method C d 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)		
Nominal Cross Sectional Area mm ²	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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Cable



Voltage Drop

Nominal Cross Sectional Area mm²	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 Single Core and Multi-Core Cables

		Min. I	No. of Wire	Max. Resistance of Conductor at 20°C			
Nominal Cross Sectional Area mm ²	Circ	Circular Compacted Shaped		ped	Annealed Copper Conducto		
	Cu	Al	Cu	Al	Cu	Al	Plain Wires Ω/km
1.5	7	-	6	-	-	-	12.1
2.5	7	-	6	-	-	-	7.41
4	7	-	6	-	-	-	4.61
6	7	-	6	-	-	-	3.08

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

Dimensions:

		Nominal Cross	Nominal	Nominal Diameter mm		Nominal	BW /	Wrapa-
Part Number	No. of Cores	Sectional Area mm ²	Thickness of Insulation mm	Under Armour	Overall	Weight kg/km	CW Gland	round Cleats
PP-6942X1.5MM XLPE/SWA/PVC	2	1.5	0.6	7.3	12.1	302	20	CC5
PP-6943X1.5MM XLPE/SWA/PVC		1.5	0.6	7.8	12.6	330	20	005
PP-6943X2.5MM XLPE/SWA/PVC	1 3 ├──	2.5		9.2	14.1	390	20S	CC6
PP-6943X4.0MM XLPE/SWA/PVC		4	0.7	10	15.3	464	203	CC7
PP-6943X6.0MM XLPE/SWA/PVC		6		11.2	16.6	568	20	007
PP-6944X1.5MM XLPE/SWA/PVC	4	1.5	0.6	8.5	13.3	365	208	CC6
PP-6944X2.5MM XLPE/SWA/PVC	+	2.5	0.7	9.9	15	438	20	000



Cable



Part Number Table

Description	Reel Length (m)	Part Number
Cable, SWA, PVC, 2 Core, 1.5mm ²		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	50	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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