



**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 : 1.5mm<sup>2</sup> to 16mm<sup>2</sup> - 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

Nominal Cross Sectional Area mm <sup>2</sup>	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.

## Voltage Drop

Nominal Cross Sectional Area mm <sup>2</sup>	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

Nominal Cross Sectional Area mm <sup>2</sup>	Min. No. of Wires in Conductor						Max. Resistance of Conductor at 20°C
	Circular		Circular Compacted		Shaped		Annealed Copper Conductor
	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:

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

## Part Number Table

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

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