

# BS5467 Fixed Wiring & Mains Cable - MDPE,SWA, 1kV - 4mm<sup>2</sup> to 16mm<sup>2</sup>



#### **Description**

The XLPE insulated cable is ideal for indoor and outdoor applications; the SWA provides mechanical protection and suitability to be installed both indoors and outdoors, through cable ducts and underground. The MDPE provides protection from moisture ingress expanding the range of applications and making it suitable for use on motorways and areas where moisture may cause a problem for cable installation.

## **Key Features**



Voltage Rating 600/1000 Volts



Minimum Bending Radius Fixed: 8 x overall diameter



Flame Retardancy BS EN/IEC 60332



**Temperature Limits** Fixed: -25°C to +90°C

## **Core Colours**



### **Standards**

- BS EN/IEC 60228
- · Generally to BS5467
- BS EN/IEC 60332-1-2

### Construction

- Conductor: Class 2 stranded copper conductor
- Insulation: Cross Linked polyethylene (XLPE)
- Bedding: Polyvinyl Chloride (PVC)
- Armour: Steel Wire Armour (SWA)
- Outer Sheath: Medium Density Polyethylene (MDPE)
- Sheath Colour: Black

## QA Lab

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.







Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



## **Our Sustainability Commitment**

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while  $reducing\ carbon\ emissions\ in\ collaboration\ with\ our\ customers\ and\ suppliers.$ 



Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

# ecovadis



















# BS5467 Fixed Wiring & Mains Cable - MDPE,SWA, 1kV - 4mm<sup>2</sup> to 16mm<sup>2</sup> - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
6942PE4	4	2	7/0.86	13.4 344		0.6	20\$
6943PE4	4	3	7/0.86	14.1	14.1 389		20\$
6944PE4	4	4	7/0.86	15	462	0.6	205
6942PE6	6	2	7/1.06	14.4	418	0.6	20\$
6943PE6	6	3	7/1.06	15.1	480	0.6	20\$
6944PE6	6	4	7/1.06	17	655	0.7	20
6942PE10	10	2	7/1.36	16.2	552	0.7	20
6943PE10	10	3	7/1.36	17.8	739	0.8	20
6944PE10	10	4	7/1.36	19.1	881	0.8	25
6942PE16	16	2	7/1.74	19.1	847	0.8	20
6943PE16	16	3	7/1.74	20.4	1006	0.9	25
6944PE16	16	4	7/1.74	22	1211	0.9	25
6945PE16	16	5	7/1.74	25.2	1606	1	25



















## **TABLE 4E4A**

## **CURRENT-CARRYING CAPACITY (amps)**

Ambient temperature: 30°C Ground ambient temperature: 20°C Conductor operating temperature: 90°C

Conductor cross- sectional area	Reference Method C (clipped direct)		(in free air or on a perforated	Method E d cable tray etc, horizontal or tical)	Reference Method D (direct in ground or in ducting in ground, in or around buildings)		
	1 two-core cable single- phase AC or DC	1 three- or 1 four- core cable, three- phase AC	1 two-core cable single- phase AC or DC	1 three- or 1 four- core cable, three- phase AC	1 two-core cable single- phase AC or DC	1 three- or 1 four- core cable, three- phase AC	
mm2	(A)	(A)	(A)	(A)	(A)	(A)	
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	
10	85	73	90	78	71	58	
16	110	94	115	99	91	75	
25	146	124	152	131	116	96	
35	180	154	188	162	139	115	
50	219	187	228	197	164	135	
70	279	238	291	251	203	167	
95	338	289	354	304	239	197	
120	392	335	410	353	271	223	
150	451	386	472	406	306	251	
185	515	441	539	463	343	281	
240	607	520	636	546	395	324	
300	698	599	732	628	446	365	
400	787	673	847	728			

<sup>1.</sup> Where it is intended to connect the cables in this table to equipment or accessories designed to operate at a temperature lower than the maximum operating temperature of the cable, the cables should be rated at the maximum operating temperature of the equipment or accessory (see Regulation 512.1.5).

2. Where it is intended to group a cable in this tablewith other cables, the cable should be rated at the lowest of the maximum operating temperatures of any of the cables in the group (see Regulation 512.1.5).

















## **TABLE 4E4B**

## **VOLTAGE DROP** (per ampere per metre)

Conductor operating temperature:90°C

Conductor cross sectional area	I Iwo-core cable DC		Two-core cable, single-phase AC			Three- or four-core cable, three-phase AC		
(mm2)	(mV/Nm)	(mV/Nm)			(mV/Nm)			
1.5	31	31			27			
2.5	19	19			16			
4	12	12			10			
6	7.9	7.9			6.8			
10	4.7	4.7			4.0			
16	2.9	2.9			2.5			
		R	Х	Z	R	Х	Z	
25	1.85	1.85	0.160	1.90	1.60	0.140	1.65	
35	1.35	1.35	0.155	1.35	1.15	0.135	1.15	
50	0.98	0.99	0.155	1.00	0.86	0.135	0.87	
70	0.67	0.67	0.150	0.69	0.59	0.130	0.60	
95	0.49	0.50	0.150	0.52	0.43	0.130	0.45	
120	0.39	0.40	0.145	0.42	0.34	0.130	0.37	
150	0.31	0.32	0.145	0.35	0.28	0.125	0.30	
185	0.25	0.26	0.145	0.29	0.22	0.125	0.26	
240	0.195	0.20	0.140	0.24	0.175	0.125	0.21	
300	0.155	0.16	0.140	0.21	0.140	0.120	0.185	
400	0.120	0.13	0.140	0.190	0.115	0.120	0.165	

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