



▶ **APPLICATION**

Industrial wiring and mains distribution. Can be laid direct in the ground, or in ducts, clipped to surface, on trays or in free air.

▶ **CONSTRUCTION**

Conductor : Single, Two, Three, Four and Five core cables. Stranded plain copper conductors

Insulation : XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured (Aluminium wires for single cores) and PVC sheathed.



▶ **STANDARD COLOURS**

Cores : Single-core- Red or Black
 2-core- Red and Black
 3-core- Red, Yellow and Blue
 4-core- Red, Yellow, Blue and Black
 5-core- Red, Yellow, Blue, Black and Green/Yellow

As per New Harmonised Code

Single-core- Brown or Blue
 2-core- Brown and Blue
 3-core- Brown, Black and Grey
 4-core- Brown, Black Grey and Blue
 5-core- Brown, Black, Grey, Green/Yellow and Blue

Sheath Colours : Black. Other colours available on request

▶ **MINIMUM BENDING RADIUS**

6D circular conductors, 8D shaped conductors

▶ **TECHNICAL DATA**

Max. Operating Temperature : 90°C
Rated Voltage : 600/1000V
Standards : BS5467

Single Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
50.0	1.0	0.8	0.90	1.5	17.5	695	PCIC50
70.0	1.1	0.8	1.25	1.5	20.2	960	PCIC70
95.0	1.1	0.8	1.25	1.6	22.3	1240	PCIC95
120.0	1.2	0.8	1.25	1.6	24.2	1495	PCIC120
150.0	1.4	1.0	1.60	1.7	27.4	1908	PCIC150
185.0	1.6	1.0	1.60	1.8	30.0	2320	PCIC185
240.0	1.7	1.0	1.60	1.8	32.8	2910	PCIC240
300.0	1.8	1.0	1.60	1.9	35.6	3550	PCIC300
400.0	2.0	1.2	2.00	2.0	40.5	4580	PCIC400
500.0	2.2	1.2	2.00	2.1	44.2	5600	PCIC500
630.0	2.4	1.2	2.00	2.2	48.8	7070	PCIC630
800.0	2.6	1.4	2.50	2.4	55.4	10660	PCIC800
1000.0	2.8	1.4	2.50	2.5	60.6	13140	PCIC1000

Note:
 Circular or compacted circular stranded conductor (Class 2)

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Two Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5*	0.6	0.8	0.90	1.3	12.1	315	PC2C1.5
2.5*	0.7	0.8	0.90	1.4	13.6	380	PC2C2.5
4.0*	0.7	0.8	0.90	1.4	14.7	460	PC2C4.0
6.0*	0.7	0.8	0.90	1.4	15.9	550	PC2C6.0
10.0*	0.7	0.8	0.90	1.5	18.0	795	PC2C10
16.0*	0.7	0.8	1.25	1.5	20.4	860	PC2C16
25.0~	0.9	0.8	1.25	1.6	20.4	1000	PC2C25
35.0~	0.9	1.0	1.60	1.7	23.3	1420	PC2C35
50.0~	1.0	1.0	1.60	1.8	25.8	1760	PC2C50
70.0~	1.1	1.0	1.60	1.9	29.0	2270	PC2C70
95.0~	1.1	1.2	2.00	2.0	33.1	3120	PC2C95
120.0~	1.2	1.2	2.00	2.1	36.1	3730	PC2C120
150.0~	1.4	1.2	2.00	2.2	39.3	4430	PC2C150
185.0~	1.6	1.4	2.50	2.4	44.7	5700	PC2C185
240.0~	1.7	1.4	2.50	2.5	49.0	7060	PC2C240
300.0~	1.8	1.6	2.50	2.6	53.5	8490	PC2C300
400.0~	2.0	1.6	2.50	2.8	59.0	10470	PC2C400

Note:

- * Circular or compacted circular stranded conductor (Class 2)
- ~ Shaped standard conductor (Class 2)

Three Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5*	0.6	0.8	0.90	1.3	12.6	330	PC3C1.5
2.5*	0.7	0.8	0.90	1.4	14.1	415	PC3C2.5
4.0*	0.7	0.8	0.90	1.4	15.3	505	PC3C4.0
6.0*	0.7	0.8	0.90	1.4	16.6	615	PC3C6.0
10.0*	0.7	0.8	1.25	1.5	19.5	870	PC3C10
16.0*	0.7	0.8	1.25	1.6	21.6	1055	PC3C16
25.0~	0.9	1.0	1.60	1.7	23.6	1485	PC3C25
35.0~	0.9	1.0	1.60	1.8	25.7	1855	PC3C35
50.0~	1.0	1.0	1.60	1.8	28.5	2305	PC3C50
70.0~	1.1	1.0	1.60	1.9	32.2	3050	PC3C70
95.0~	1.1	1.2	2.00	2.1	37.0	4190	PC3C95
120.0~	1.2	1.2	2.00	2.2	40.4	5050	PC3C120
150.0~	1.4	1.4	2.50	2.3	45.5	6450	PC3C150
185.0~	1.6	1.4	2.50	2.4	49.8	7790	PC3C185
240.0~	1.7	1.4	2.50	2.6	55.1	9680	PC3C240
300.0~	1.8	1.6	2.50	2.7	60.2	11780	PC3C300
400.0~	2.0	1.6	2.50	2.9	66.6	14600	PC3C400

Note:

- * Circular or compacted circular stranded conductor (Class 2)
- ~ Shaped standard conductor (Class 2)

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Four Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5*	0.6	0.8	0.90	1.3	13.3	345	PC4C1.5
2.5*	0.7	0.8	0.90	1.4	15.0	440	PC4C2.5
4.0*	0.7	0.8	0.90	1.4	16.4	540	PC4C4.0
6.0*	0.7	0.8	1.25	1.5	18.7	780	PC4C6.0
10.0*	0.7	0.8	1.25	1.5	21.1	1125	PC4C10
16.0*	0.7	0.8	1.25	1.6	23.4	1300	PC4C16
25.0~	0.9	1.0	1.60	1.7	26.1	1860	PC4C25
35.0~	0.9	1.0	1.60	1.8	28.6	2335	PC4C35
50.0~	1.0	1.0	1.60	1.9	32.0	2960	PC4C50
70.0~	1.1	1.2	2.00	2.1	37.7	4200	PC4C70
95.0~	1.1	1.2	2.00	2.2	41.7	5400	PC4C95
120.0~	1.2	1.4	2.50	2.3	47.1	6990	PC4C120
150.0~	1.4	1.4	2.50	2.4	51.4	8300	PC4C150
185.0~	1.6	1.4	2.50	2.6	56.6	10076	PC4C185
240.0~	1.7	1.6	2.50	2.7	63.0	12660	PC4C240
300.0~	1.8	1.6	2.50	2.9	68.8	15350	PC4C300
400.0~	2.0	1.8	3.15	3.2	78.1	19880	PC4C400

Note:

* Circular or compacted circular stranded conductor (Class 2)

~ Shaped standard conductor (Class 2)

Five Core Cables - 600/1000V

Nominal Area of the Conductor (mm ²)	Thickness of Insulation (mm)	Thickness of Extruded Bedding (mm)	Diameter of Armour Wire (mm)	Thickness of Outer Sheath (mm)	Approx Overall Diameter (mm)	Approx. Nett Weight (kg/km)	Product Code
1.5	0.6	0.8	0.90	1.4	14.3	430	PC5C1.5
2.5	0.7	0.8	0.90	1.4	16.1	545	PC5C2.5
4.0	0.7	0.8	0.90	1.5	17.8	680	PC5C4.0
6.0	0.7	0.8	1.25	1.5	20.0	840	PC5C6.0
10.0	0.7	0.8	1.25	1.6	22.9	1105	PC5C10
16.0	0.7	1.0	1.60	1.7	26.6	1450	PC5C16
25.0	0.9	1.0	1.60	1.8	31.5	2245	PC5C25
35.0	0.9	1.0	1.60	1.9	34.8	2840	PC5C35
50.0	1.0	1.2	2.00	2.0	40.4	3895	PC5C50
70.0	1.1	1.2	2.00	2.2	46.3	5145	PC5C70

Note:

Circular or compacted circular stranded conductor (Class 2)

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Single Core Copper, XLPE Insulated Armoured/Umarmoured Cables Current Ratings & Voltage Drop of the cables - 600/1000V

Area (mm ²)	In Air Single Core in Trefoil		In Ground Single Core in Trefoil Armoured	In Duct (A) Single Core in Trefoil Armoured	Voltage Drop of 3 Single core cables Trefoil (V/A/km)
	Unarmoured	Armoured			
1.5	22	22	28	26	26.7
2.5	30	30	38	35	16.4
4.0	39	39	49	46	10.2
6.0	49	49	62	59	6.80
10	67	67	82	78	4.00
16	92	92	108	101	2.50
25	123	123	139	134	1.62
35	146	146	165	154	1.17
50	174	180	199	199	0.88
70	222	230	244	239	0.62
95	275	282	292	281	0.46
120	321	328	332	315	0.38
150	371	377	371	341	0.32
185	430	433	417	376	0.28
240	513	510	480	421	0.23
300	594	581	536	459	0.21
400	692	664	594	488	0.20
500	801	751	658	529	0.18
630	925	846	723	571	0.17
800	1051	919	764	595	0.16
1000	1172	997	810	632	0.15

Operating conditions

Ambient air temperature : 50°C
 Ground temperature : 35°C
 Depth of laying : 0.50m
 Thermal resistivity of soil : 1.2 Km/W

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Two Core Copper, XLPE Insulated Armoured/Umarmoured Cables Current Ratings & Voltage Drop of the cables - 600/1000V

Area (mm ²)	In Air		In Ground Armoured	In Duct (A) Armoured	Voltage Drop (V/A/km)
	Unarmoured	Armoured			
1.5	22	24	33	27	30.9
2.5	30	32	42	35	18.9
4.0	39	43	56	46	11.8
6.0	50	55	70	58	7.90
10	67	74	94	77	4.70
16	97	98	121	99	2.90
25	122	128	157	127	1.90
35	151	158	188	153	1.35
50	183	190	223	181	1.00
70	232	239	273	224	0.70
95	287	295	328	269	0.52
120	335	341	372	307	0.42
150	383	289	417	345	0.35
185	444	449	470	391	0.90
240	529	530	544	453	0.24
300	611	605	609	509	0.21
400	711	696	687	575	0.20

Operating conditions
 Ambient air temperature : 50°C
 Ground temperature : 35°C
 Depth of laying : 0.50m
 Thermal resistivity of soil : 1.2 Km/W

Three & Four Core Copper, XLPE Insulated Armoured/Umarmoured Cables Current Ratings & Voltage Drop of the cables - 600/1000V

Area (mm ²)	In Air		In Ground Armoured	In Duct (A) Armoured	Voltage Drop (V/A/km)
	Unarmoured	Armoured			
1.5	19	20	28	22	26.7
2.5	27	27	36	29	16.4
4.0	34	37	47	39	10.2
6.0	44	46	59	48	6.80
10	58	64	79	65	4.00
16	83	83	102	83	2.50
25	105	109	131	107	1.65
35	129	134	157	128	1.15
50	157	163	187	152	0.87
70	200	205	229	187	0.60
95	246	253	274	226	0.45
120	288	293	312	258	0.37
150	330	335	349	291	0.30
185	381	386	394	329	0.26
240	454	456	455	380	0.21
300	524	519	509	427	0.19
400	608	597	574	490	0.17

Operating conditions
 Ambient air temperature : 50°C
 Ground temperature : 35°C
 Depth of laying : 0.50m
 Thermal resistivity of soil : 1.2 Km/W