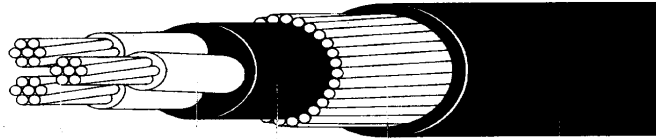


**Power**  
**600/1000 volt**  
**XLPE insulated**  
**LSOH sheathed**  
**Three core armoured cables**  
**BS6724**

- 1 Conductor
- 2 Insulation
- 3 Bedding
- 4 Armour
- 5 Sheath



#### Order Description

**3 x CSA mm<sup>2</sup>, P.Cu. XLPE Ins (1 RED 1 YELLOW, 1 BLUE), cores laid up, LSOH bedding, SWA, LSOH sheath overall. 600/1000V to BS6724.**

#### Construction

##### Conductors

1.5 mm<sup>2</sup> to 35 mm<sup>2</sup>. Plain annealed copper stranded circular conductor complying with BS6360 Class 2.

50 mm<sup>2</sup> and above. Plain annealed copper shaped stranded conductor complying with BS6360 Class 2.

##### Insulation

XLPE insulation complying with BS7655 requirements for type GP8.

##### Core Identification

Core coloured.  
 1 RED, 1 YELLOW, 1 BLUE.

##### Core assembly

Cores are laid up with fillers and tape as appropriate.

##### Bedding

Extruded layer of LSOH bedding compound.

#### Armour

Single layer of galvanised steel wires.

#### Outer sheath

LSOH sheath complying with BS7655 requirements for type LTS1.

#### Sheath Colour

Normally BLACK but other colours available upon request.

#### Corrosive and acid gas emission

All non metallic components when tested in accordance with BS6425 Pt 1 (IEC754-1) give a level of HCl not greater than 0.5%.

#### Low smoke emission

When the complete cable is tested in accordance with BS6724 or with BS7622 Pt 2 (IEC1034-2) it meets the minimum light transmittance requirements as stated in BS6724 or BS7622 Pt 2 (IEC1034-2).

#### Flame propagation (Single cable)

All these cables meet the requirements of BS4066 Pt 1 (IEC332 Pt 1).

#### Flame propagation (Cable bunches)

All these cables meet the requirements of BS4066 Pt 3 category C (IEC332 Pt 3 category C).

#### Installation

All cables should be installed in accordance with the appropriate regulations, including IEE, or any other national legislation.

#### Temperature Limits

The cables are suitable for operation in the range -25 to +90°C, but should not be installed at temperatures below 0°C.

#### Health and Safety

Please refer to the Pirelli Cables leaflet 'Statement to Cable User's on the Health & Safety at Work Act 1974 and the Control of Substances Hazardous to Health-Regulation (COSHH).'

#### Ambient temperature correction factor

Ambient Temperature °C

Correction factor

25	30	35	40	45	50	55	60	65	70	75	80	85
1.02	1.0	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41	0.29

#### Correction Factor for Groups of more than one multicore cable

Number of multicore cables	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Single layer clipped direct (touching)	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	-	-	-	-	-	-
Single layer clipped direct (spaced*)	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Single layer on perforated cable tray	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horizontal or Vertical (touching)	0.86	0.81	0.77	0.75	0.74	0.73	0.73	0.72	0.71	0.70	-	-	-	-
Single layer on perforated cable tray	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Horizontal or Vertical (spaced*)	0.91	0.89	0.88	0.87	0.87	-	-	-	-	-	-	-	-	-

Note: The factors in this table are applicable to groups of cables all of one size.

If, due to known operating conditions, a cable is expected to carry not more than 30% of its grouped rating, it may be ignored for the purposes of obtaining the rating factor for the rest of the group.

When cables having differing conductor operating temperatures are grouped together, the current rating shall be based upon the lowest operating temperature in the group.

\*Spaced by a clearance between adjacent surfaces of at least one cable diameter. Where the horizontal clearances between adjacent cables exceeds 2 cable diameters no correction factor need to be applied.

#### Voltage rating

#### 600/1000 volt

Number of cores		3	3	3	3	3	3	3
Nominal Cross-sectional area	mm <sup>2</sup>	1.5	2.5	4.0	6.0	10	16	25
Minimum average thickness of insulation	mm	0.6	0.7	0.7	0.7	0.7	0.7	0.9
Nominal thickness of bedding	mm	0.8	0.8	0.8	0.8	0.8	0.8	1.0
Nominal diameter of armour wires	mm	0.9	0.9	0.9	0.9	1.25	1.25	1.6
Nominal thickness of oversheath	mm	1.4	1.4	1.4	1.4	1.5	1.6	1.7
Approximate diameter under armour	mm	8.2	9.5	10.7	11.9	13.9	16.2	19.6
Approximate diameter overall	mm	13.3	14.6	15.8	17.0	19.9	22.4	25.6
Minimum bending radius	mm	80	90	95	110	120	140	160
Approximate cable weight	kg/km	340	410	500	600	915	1200	1000
Maximum pulling eye force	kg	22.5	37.5	60	90	150	240	375
Maximum DC resistance at 20°C	Ohms/km	12.1	7.41	4.61	3.08	1.83	1.15	0.727
Maximum AC resistance at 90°C	Ohms/km	15.42	9.44	5.87	3.92	2.33	1.46	0.927
Maximum resistance of armour at 20°C	Ohms/km	10.2	8.2	7.5	6.6	4.0	3.6	2.5
Minimum Cross-Sectional area of armour wires	mm <sup>2</sup>	16	19	21	23	39	44	62
Approximate Capacitance (core to core)	uF/km	0.143	0.156	0.183	0.211	0.257	0.309	0.283
Approximate Inductance	mH/km	0.321	0.315	0.296	0.282	0.267	0.256	0.262
Approximate Reactance @ 50Hz	Ohms/km	0.101	0.099	0.093	0.089	0.084	0.080	0.082
Approximate Impedance @ 50Hz	Ohms/km	15.420	9.441	5.871	3.921	2.332	1.462	0.931

Note: The under armour and oversheath diameters are only approximate, if tolerated dimensions are required please specify at time of enquiry or order placement.

#### Short circuit ratings

1 Second Short Circuit Rating of Conductor (90 to 250°C)

1 Second Short Circuit Rating of Armour (80 to 200°C)

KA	0.20	0.35	0.57	0.86	1.4	2.2	3.6
KA	0.74	0.88	0.97	1.0	1.8	2.0	2.8

#### Current Ratings to BS7671 (IEE Wiring Regs. Table 4E4)

Three phase A.C. on perforated cable tray or free air

Three phase A.C. clipped direct

Amps	25	33	44	56	78	99	131
Amps	23	31	42	53	73	94	124

#### Approximate Volt Drops

Three phase A.C.

mV/A/m	27.0	16.0	10.0	6.8	4.0	2.5	1.65
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Note: If current rating in Ground/Duct is required then reference should be made to ERA69-30 part V. Alternatively ratings are as BS5467 cables.

Where the conductor is protected by semi-enclosed fuse to BS3036, reference should be made to BS7671 (IEE Wiring Regs) Appendix 4 clause 6.2.

When cables having differing conductor operating temperatures are grouped together, the current rating shall be based upon the lowest operating temperature in the group.