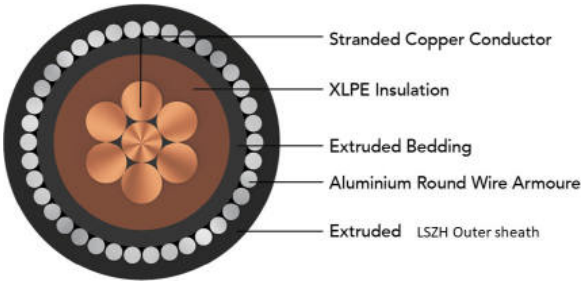
LOW VOLTAGE POWER CABLE · SC AWA LSZH · ALUMINIUM WIRE ARMOURED

0.6/1 KV · SINGLE-CORE COPPER

Stranded copper · thermosetting insulated · extruded bedding · aluminium round wire armoured · LSZH sheathed · manufactured to BS 6724-1997+A3:2008

600/1000 V	−20 to +90 °C	250 °C	3500 V AC
Voltage rating	Operating temperature	Short-circuit temperature	Test voltage at (20±5) °C

CABLE / SIDE VIEW · INDOCABLES sheath print



CROSS-SECTION · construction callouts

Images not to scale. Follow table for dimensions.

APPLICATION

INDOCABLES BS 6724 SC AWA LSZH stranded copper conductor thermosetting material insulated single core Aluminium armoured cable is designed to use for fixed installation in indoor and outdoor power network, underground application, industrial areas and buildings where smoke emission and toxic fumes create a potential risk when exposed to fire.

CONSTRUCTION

Conductor	Annealed stranded copper conductor as per IEC 60228, class 2
Insulation	Insulated with cross linked type GP8 to BS 7655-1.3 or type GP 6 to BS 7655-1.2 or type EI-5 to BS EN 50363-5.
Bedding	Bedding shall be extruded layer of polymeric material
Armour	Armoured with Aluminium round wire
Outer sheath	Sheathed with LSZH polymeric material LTS1 to BS 7655-6.1
Core identification	Brown or Blue
Bending radius	Fixed installation – 6 × overall diameter
Test voltage	3500 V AC at (20±5) °C

OUTSTANDING FEATURES

Flame propagation

Low smoke emission · halogen free

STANDARD FOLLOWS

IEC 60228 · BS 7655-1.3/1.2 · EN 50363-5 · BS 7655-6.1 · BS 6724-1997+A3:2008 · EN 60332-1-2

COMPLIANCE

Conductor resistance test	IEC 60228
Insulation resistance test	BS 6724
Spark test	EN 62230 & BS 5099
Smoke emission test	BS EN 61034-2
Flame propagation test	BS EN 60332-1-2

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WEIGHT & DIMENSION DATA

Product code	Nominal cross-sectional area mm²	Nominal insulation thickness mm	Overall diameter (approx.) mm	Weight (approx.) kg/km	INDOCABLES / DOWEL gland size
IC-PW-01-05000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	50	1	17.5	682	DBW - 01A/DBF - 01A
IC-PW-01-07000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	70	1.1	20.2	997	DBW - 03/DBF - 03
IC-PW-01-09500-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	95	1.1	22.3	1286	DBW - 03/DBF - 03
IC-PW-01-12000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	120	1.2	24.2	1583	DBW - 04A/DBF - 04A
IC-PW-01-15000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	150	1.4	27.4	2013	DBW - 05A/DBF - 05A
IC-PW-01-18500-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	185	1.6	30.0	2410	DBW - 06A/DBF - 06A
IC-PW-01-24000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	240	1.7	32.8	2997	DBW - 06A/DBF - 06A
IC-PW-01-30000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	300	1.8	35.6	3699	DBW - 07/DBF - 07
IC-PW-01-40000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	400	2	40.5	4822	DBW - 08/DBF - 08
IC-PW-01-50000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	500	2.2	44.2	5434	DBW - 09/DBF - 09
IC-PW-01-63000-CU-2XL-2XWaH-0660-BS6724-ZHFR‡	630	2.4	48.8	7439	DBW - 010A/DBF - 010A

The above data is approximate & subject to manufacturing tolerance. ‡Codes are derived from the published Indo Cables code structure — the Item Master holds no BS 6724 entries at all, so every row here is flagged for registration.

ELECTRICAL CHARACTERISTICS

Current carrying capacity and maximum DC conductor resistance. Ambient temperature: 30°C, Conductor operating temperature: 90°C.

Nominal cross-sectional area	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)									Maximum DC conductor resistance at 20°C
	Touching		Touching			Spaced by one cable diameter						
	2 cables, single-phase a.c. or d.c. flat	3 or 4 cables, three-phase a.c. flat	2 cables, single-phase a.c. or d.c. flat	3 cables, three-phase a.c. or d.c. flat	3 cables, three-phase a.c. or d.c. trefoil	2 cables, d.c.		2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.		
						Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical	
mm²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
50	237	220	253	232	222	284	270	282	266	288	266	0.387
70	303	277	322	293	285	356	349	357	337	358	331	0.268
95	367	333	389	352	346	446	426	436	412	425	393	0.193
120	425	383	449	405	402	519	497	504	477	485	449	0.153
150	488	437	516	462	463	600	575	566	539	549	510	0.124
185	557	496	587	524	529	688	660	643	614	618	574	0.0991
240	656	579	689	612	625	815	782	749	714	715	666	0.0754
300	755	662	792	700	720	943	906	842	805	810	755	0.0601
400	853	717	899	767	815	1,137	1,094	929	889	848	797	0.047
500	962	791	1,016	851	918	1,314	1,266	1,032	989	923	871	0.0366
630	1,082	861	1,146	935	1,027	1,528	1,474	1,139	1,092	992	940	0.0283

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Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70ºC, the current ratings given in the equivalent table for 70ºC thermoplastic insulated cables (Table 4D3A) must be used. The above table is in accordance with Table 4E3A of BS 7671:2018

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DE-RATING FACTOR

De-rating factor for 90°C thermosetting insulated cable

Ambient temperature	35°C to 50°C	55°C	60°C	65°C	70°C
De-rating factor	1	0.96	0.83	0.67	0.47

Reproduced as written: the table gives a single factor of 1 across the whole 35–50°C band while the rating conditions above are stated at 30°C ambient — flagged for check.

OUR ACCREDITATIONS & APPROVAL

ISO 9001
Cert. 99 100 22646 (TÜV SÜD)

ISI
Bureau of Indian Standards · CM/L 6200267409

RoHS
Compliant

REACH
Compliant

Make in India
Manufactured in India

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