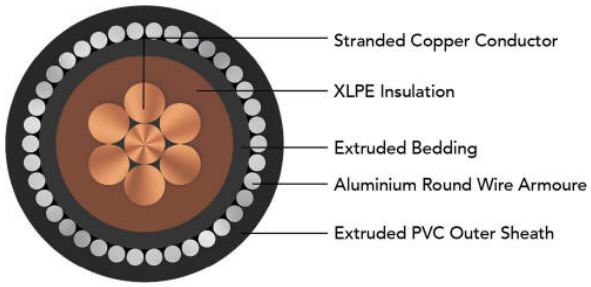
LOW VOLTAGE POWER CABLE · SC AWA · SINGLE-CORE COPPER ALUMINIUM WIRE ARMOURED

600/1000 V AC · SINGLE-CORE COPPER

Annealed stranded copper conductor · thermosetting insulated · extruded polymeric bedding · aluminium round wire armoured · PVC Type 9 sheathed · conforming to BS 5467

600/1000 V	−15 to +90 °C	250 °C	50–630 mm²
Voltage rating	Operation temperature, fixed	Short circuit temperature	Size range, single core

CABLE / SIDE VIEW · INDOCABLES sheath print



CROSS-SECTION · construction callouts

Images not to scale. Follow table for dimensions

APPLICATION

INDOCABLES BS 5467 SC stranded copper conductor thermosetting material insulated Multi core armoured cable fulfils the requirement as per BS EN 5467. These cables are suitable for fixed installation in industrial area, buildings, and similar application.

† Source text reads “Multi core” and cites “BS EN 5467” on a single-core BS 5467 sheet — reproduced as written, flagged for check.

CHARACTERISTICS & CONSTRUCTION

Voltage rating	600/1000 V
Operation temperature	Fixed: −15°C to +90°C · Short circuit temperature 250°C
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
Bedding	Bedding shall be extruded layer of polymeric material.
Armouring	Armoured with Aluminium round wire armoured.
Outer sheath	Sheathed with PVC confirming to requirements for Type 9 to BS 7655-4.2
Core identification	Brown or Blue
Bending radius	Fixed installation – 6 x Overall Diameter
Test voltage	3500V AC at (20±5) °C

OUTSTANDING FEATURES

Low smoke emission

Flame propagation

Resistance to weather exposure

STANDARD FOLLOWS

IEC 60228 · BS 7655-1.3/1.2 · BS 7655-4.2 · BS 5467 · EN 50265

COMPLIANCE

Conductor Resistance test	IEC 60228
Insulation Resistance test	BS 5467
Spark test	BS EN 5099 †
Smoke emission test	BS EN 61034
Flame propagation test	BS EN 50265-2-1

† Spark test standard number as written in the source — flagged for check.

OUR ACCREDITATIONS & APPROVAL

ISI
Bureau of Indian Standards · CM/L 6200267409

ISO 9001
Cert. 99 100 22646 (TÜV SÜD)

RoHS
Compliant

REACH
Compliant

Make in India
Manufactured in India

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-2XWaY-0660-BS5467-FRLS†	50	1	17.5	692	DBW-01/DBF-01
IC-PW-01-07000-CU-2XL-2XWaY-0660-BS5467-FRLS†	70	1.1	20.2	944	DBW-03/DBF-03
IC-PW-01-09500-CU-2XL-2XWaY-0660-BS5467-FRLS†	95	1.1	22.3	1196	DBW-03/DBF-03
IC-PW-01-12000-CU-2XL-2XWaY-0660-BS5467-FRLS†	120	1.2	24.2	1475	DBW-04/DBF-04
IC-PW-01-15000-CU-2XL-2XWaY-0660-BS5467-FRLS†	150	1.4	27.4	1853	DBW-05/DBF-05
IC-PW-01-18500-CU-2XL-2XWaY-0660-BS5467-FRLS†	185	1.6	30.0	2279	DBW-05/DBF-05
IC-PW-01-24000-CU-2XL-2XWaY-0660-BS5467-FRLS†	240	1.7	32.8	2848	DBW-06/DBF-06
IC-PW-01-30000-CU-2XL-2XWaY-0660-BS5467-FRLS†	300	1.8	35.6	3569	DBW-07/DBF-07
IC-PW-01-40000-CU-2XL-2XWaY-0660-BS5467-FRLS†	400	2	40.5	4616	DBW-08/DBF-08
IC-PW-01-50000-CU-2XL-2XWaY-0660-BS5467-FRLS†	500	2.2	44.2	5479	DBW-09/DBF-09
IC-PW-01-63000-CU-2XL-2XWaY-0660-BS5467-FRLS†	630	2.4	48.8	7047	DBW-10/DBF-10

DBW – Weatherproof series DBF – Flame proof series

The above data is approximate & subject to manufacturing tolerance. Codes read 01 = single core · CU · 2XL XLPE · 2XWaY copper / XLPE / round aluminium wire armour / PVC sheath · 0660 = 600/1000 V · BS 5467 · FRLS.

† BS 5467 is not a registered standard in the Indo Cables Item Master and no BS 5467 item exists in the register — every code above is derived from the published code structure and flagged for registration.

ELECTRICAL CHARACTERISTICS

Current carrying capacity and maximum DC conductor resistance.

Nominal cross sectional area mm²	Reference Method C (clipped direct) Amp.		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical) Amp.									Maximum DC conductor resistance at 20°C Ω/km
			Touching			Spaced by one cable diameter						
						2 cables, d.c.		2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.		
	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. flat	3 cables, three-phase a.c. trefoil	Horiz.	Vert.	Horiz.	Vert.	Horiz.	Vert.	
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	1082	861	1,146	935	1,027	1,528	1,474	1,139	1,092	992	940	0.0283

Ambient temperature	Conductor operating temperature	Rating basis
30°C	90°C	BS 7671:2018 Table 4E3A

† The source column headings were broken up by the original PDF-to-Word conversion; the eleven current columns are grouped here per BS 7671:2018 Table 4E3A. Every value is reproduced exactly as written in the source.

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