

<h2>DucabSmokemaster</h2>	<h2>DucabSmokemaster</h2>
<h3>Armoured Cables to BS 6724</h3>	<h3>Wiring Cables to EN 50525-3-41</h3>
<ul style="list-style-type: none"> <li>Complies with acid gas emission requirements of IEC 60754 Part 1 &amp; Part 2 and also complies with Category C of IEC 60332 - 3.</li> </ul>	<ul style="list-style-type: none"> <li>Ducab Smokemaster insulation allows continuous conductor operating temperatures up to 90°C.</li> </ul>
<ul style="list-style-type: none"> <li>Ducab Smokemaster Armoured Cables are suitable for a wide range of applications including where sections of the cable are underground.</li> </ul>	<ul style="list-style-type: none"> <li>Maximum conductor temperature allowed under short circuit conditions is 250°C.</li> </ul>
<ul style="list-style-type: none"> <li>Low Smoke and Zero Halogen properties, no halogen acid gas emissions and reduced ignition and fire propagation properties.</li> </ul>	<ul style="list-style-type: none"> <li>Higher operating and short circuit temperatures provide opportunity to reduce conductor sizes.</li> </ul>
<ul style="list-style-type: none"> <li>The cable construction combines XLPE conductor in sulation with Ducab Smokemaster LSZH beding and outer sheath.</li> </ul>	<ul style="list-style-type: none"> <li>All cables have clear identification and marking</li> </ul>
<ul style="list-style-type: none"> <li>90°C conductor operating temperature provides the opportunity to reduce conductor sizes.</li> </ul>	<ul style="list-style-type: none"> <li>Independent product testing to BS EN 50525-3-41</li> </ul>
<ul style="list-style-type: none"> <li>Approved by Lloyds Register (UK) and BASEC</li> </ul>	<ul style="list-style-type: none"> <li>BASEC Approved (1.5 to 630 sq mm sizes)</li> </ul>

## Technical Data

# Ducab Smokemaster Wiring Cables to BS EN 50525-3-41

### Construction

Stranded plain annealed copper single core conductors insulated with crosslinked **Ducab Smokemaster** Compound. Voltage Grade: 450/750V.

### Identification

**Ducab Smokemaster** Wiring Cables are identified with the legend – BICC **Ducab Smokemaster** **LSZH** BS EN 50525-3-41 Z – and are available as standard in Red, Black, Yellow, Blue and Green/Yellow colours. Other colours can be manufactured to order.

### Installation

The cables are primarily intended for installation in conduit or trunking.

### Current Ratings

The following ratings apply to cables bunched and enclosed in conduit on a wall, or enclosed in trunking, and are based on an ambient temperature of 30°C.

## Ducab Smokemaster Wiring Cables 450/750V Grade

Nominal Conductor Area	Radial Thickness of Insulation	Mean Overall Diameter (Upper limit)	Approximate Cable Weight	Maximum conductor Resistance at 20°C	Enclosed in Conduit (method 3)			
					Two Cables, Single Phase a.c. Current Rating	Two Cables, Single Phase a.c. Volt Drop	Three or Four Cables, Three Phase a.c. Current Rating	Three or Four Cables, Three Phase a.c. Volt Drop
mm <sup>2</sup>	mm	mm	kg/km	ohm/km	Amp	mV/A/m	Amp	mV/A/m
1.5	0.7	3.4	22	12.1	22	31	19	27
2.5	0.8	4.1	33	7.41	30	19	26	16
4	0.8	4.7	49	4.61	40	12	35	10
6	0.8	5.4	69	3.08	51	7.9	45	6.8
10	1.0	7.0	116	1.83	71	4.7	63	4.0
16	1.0	8.0	175	1.15	95	2.9	85	2.5
25	1.2	10.1	274	0.727	126	1.90	111	1.65
35	1.2	11.3	367	0.524	156	1.35	138	1.15
50	1.4	13.0	495	0.387	189	1.05	168	0.90
70	1.4	15.0	699	0.268	240	0.75	214	0.65
95	1.6	17.0	968	0.193	290	0.58	259	0.50
120	1.6	19.0	1164	0.153	336	0.48	299	0.42
150	1.8	21.0	1413	0.124	375	0.43	328	0.37
185	2.0	23.5	1828	0.0991	426	0.37	370	0.32
240	2.2	26.5	2320	0.0754	500	0.33	433	0.29
300	2.4	29.5	2988	0.0601	573	0.31	493	0.27
400	2.6	34.3	3700	0.0470	683	0.29	584	0.25
500	2.8	38.2	4750	0.0366	783	0.28	666	0.24
630	2.8	42.5	6000	0.0283	900	0.27	764	0.23