

# Technical Submittal

DUCAB

**PROJECT**

XXXXXXXXXXXXXXXXXXXXXXX

**CLIENT**

XXXXXXXXXXXXXXXXXXXXXXX

**CONSULTANT**

XXXXXXXXXXXXXXXXXXXXXXX

**MAIN CONTRACTOR**

XXXXXXXXXXXXXXXXXXXXXXX

**SUPPLIER**



**SMART SENSE SUPPLIES**

Office : Ajman Free Zone

Warehouse : W1, Street 17, Umm Ramool-Dubai, UAE

Smart Sense Supplies



[www.delstars.com](http://www.delstars.com)

LIGHTING/WIRES & ARMoured CABLES/ELECTRICAL ACCESSORIES



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE

TEL: 042546843, MOB: 056 525 6961.

E – MAIL: [amit@smartsensesupplies.me](mailto:amit@smartsensesupplies.me)

Website: [www.smartsense.asia](http://www.smartsense.asia)



**SMART SENSE SUPPLIES ME FZE**

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**SMART SENSE SUPPLIES** ME FZE

**LIGHTING / WIRES & ARMoured CABLES /  
ELECTRICAL ACCESSORIES**

AMBER GEM TOWER,  
BLOCK E1, OFFICE NO. 1902,  
OPPOSITE TO DUBAI ISLAMIC BANK  
AJMAN FREE ZONE, UAE  
MOBILE: +971 05 65256961  
LANDLINE: 04 3581336,  
EMAIL: [amit@smartsensesupplies.me](mailto:amit@smartsensesupplies.me)  
WEBSITE: [www.smartsense.asia](http://www.smartsense.asia)

S1, WAREHOUSE, 17<sup>TH</sup> STREET  
UMM RAMOOL, RASHIDIYA,  
LANDLINE: 04 2546843  
MOBILE: +971 050 5439933,  
EMAIL: [online@smartsense.asia](mailto:online@smartsense.asia)  
WEBSITE: [www.smartsense.asia](http://www.smartsense.asia)

Smart Sense Supplies ME FZE with vast years of experiences, the SHRI LED brand of lighting, offering a “one stop shop” for trade and retail accessories. Smart Sense, supplying high efficiency, energy saving LED luminaires to the trade and projects market.

Our reputation is based on the reliability and functionality of our innovative products. By offering market leading warranties, technical support, dedicated customer service and marketing backup, we aim to make it easy for customers to specify and install sustainable lighting. Smart Sense believes that we have a responsibility to care for and protect the environmental performance across all our manufacturing and other business activities, continually looking for new methods and materials to provide environmentally friendly solutions



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TEL: 042546843, MOB: 056 525 6961.  
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Website: [www.smartsense.asia](http://www.smartsense.asia)

# PRODUCTS IN OUR RANGE

## LED LIGHTING

We provide commercial and domestic lighting solutions, using energy saving and environmentally friendly LED lighting. Established in 2013, to address the rapidly growing LED lighting market, smart sense has rapidly established itself as one of the leading brands for professional lighting in the UAE. It continues to innovate and regenerate its product the most efficient and comprehensive range of lighting solutions.

- Comprehensive product range, servicing all recognized channels and sectors.
- Dedicated distribution team supported by after sales and customer service functions.
- Experienced specification team with national coverage.
- Interior lighting, including panels, down lights, battens and high bay.
- Exterior lighting, including floodlights, bulkhead, road lanterns and bollards.
- Retrofit lamps and tubes, including replacements for existing light fixtures.

We represent the following brands:



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
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Website: [www.smartsense.asia](http://www.smartsense.asia)

## **ARMoured CABLE/PANEL/HOUSING WIRES & CABLES**

We represent renowned manufactures from around the world to offer the best match of customer's expectations based on their requirements.

We represent the following brands:

### **MADE IN UAE:**



### **MADE IN INDIA:**

**Finolex**



### **FIRE RATED CABLE:**

We represent the brands like,



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Website: [www.smartsense.asia](http://www.smartsense.asia)

## **CAT6 CABLES:**

We represent the brands like,



## **SWITCH GEAR & DISTRIBUTION BOARD:**

We represent renowned manufacturers from around the world to offer the best match of customer's expectations based on their requirements.

We offer the products like:

- MCB
- ELCB
- ISOLATORS
- MCCB
- ACB

We represent the brands like, but not limited to,



## **SWITCH & SOCKETS:**

We represent the brands like,



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Website: [www.smartsense.asia](http://www.smartsense.asia)



### **CABLE TRAY / SLOTTED CHANNELS / CABLE TIE:**

We represent the brands like,



### **LUGS & GLANDS:**

We represent the brands like,



### **CONDUIT & CONDUIT FITTING:**

We represent the brands like,



### **GI CONDUIT ACCESSORIES:**

We represent the brand like,



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
TEL: 042546843, MOB: 056 525 6961.  
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Website: [www.smartsense.asia](http://www.smartsense.asia)



### **PVC FLOOR BOX:**

We represent the brands like,



**DAVIS®**



### **FANS (CEILING/WALL/VENTILATION):**

We represent the brands like,



**Panasonic**

### **RUBBER CABLE:**

We represent the brands like,



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
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Website: [www.smartsense.asia](http://www.smartsense.asia)



## **EARTHLING:**

We represent the brands like,



## **ELECTRICAL & TEFLONE TAPE:**

We represent the brands like,



## **POWER SUPPLY/ STRIPS/ MODULES:**

We represent the brands like,



## **PLUMBING/ SANITARY:**

We represent the brands like,



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
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E – MAIL: [amit@smartsensesupplies.me](mailto:amit@smartsensesupplies.me)  
Website: [www.smartsense.asia](http://www.smartsense.asia)



### **CONCRETE SPACER / MANHOLE COVER:**



We represent the  
brands like,

### **ALUMINIUM & FIBER GLASS LADDERS:**

We represent the brands like,



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
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Website: [www.smartsense.asia](http://www.smartsense.asia)

# WAVIN SITECH



**SMART SENSE SUPPLIES**

LIGHTING / WIRES & ARMoured CABLES / ELECTRICAL ACCESSORIES

**wavin**Sitech+

**LOW NOISE**  
SOIL & DRAINAGE



Address : Ajman Free Zone

[online@smartsense.asia](mailto:online@smartsense.asia)

Warehouse : Umm Ramool, Rashidiya

☎ 042 5468 43

☎ 056 525 6961



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Website: [www.smartsense.asia](http://www.smartsense.asia)

## Business License

## رخصة تجارية

### License Details

### تفاصيل الرخصة

License No.	15228	15228	رقم الرخصة
Registration No.	15228	15228	رقم السجل
Trade Name	Smart Sense Supplies Middle East (F.Z.E)	سمارت سينس سبلايز ميدل ايست (م.م.ح)	الاسم التجاري
Legal Form	Free Zone Establishment - Limited Liability	مؤسسة منطقة حرة - ذات مسؤولية محدودة	الشكل القانوني
First Issue Date	July 26, 2015	July 26, 2015	تاريخ الإصدار الأول
Current Issue Date	July 26, 2024	July 26, 2024	تاريخ الإصدار الحالي
Expiry Date	July 25, 2025	July 25, 2025	تاريخ الانتهاء
Manager	Amit Mahendra Shrimankar	اميت ماهيندرا شريمانكار	المدير

### Address

### العنوان

Premises Number	B.C. 1303134	B.C. 1303134	رقم الموقع
Building Name	Ajman Free Zone C1 Building	منطقة عجمان الحرة مبنى C1	اسم المبنى
Business District	Ajman Free Zone	منطقة عجمان الحرة	منطقة الأعمال
Makani No.	4442612247	4442612247	رقم مكاني

### Activities

### الأنشطة

1. General Trading Import & Export

1. تجارة عامة - استيراد و تصدير



Authority Formation  
Decree

منطقة عجمان الحرة  
Ajman Free Zone



مستند إلكتروني معتمد صادر بدون توقيع من هيئة المناطق الحرة في عجمان  
Approved electronic document issued without signature by Free Zones Authority of Ajman  
Toll Free 8002392  
www.fza.ae



License Document





شهادة تسجيل لضريبة القيمة المضافة في الامارات العربية المتحدة  
Certificate of Registration for Value Added Tax in the United Arab Emirates

The Federal Tax Authority certifies that the entity below is  
a registered person for Value Added Tax in the UAE

تشهد الهيئة الاتحادية للضرائب أن الجهة التالية مسجلة لضريبة القيمة  
المضافة في الامارات العربية المتحدة

Full Arabic legal name	سمارت سينس سبلاينز ميديل ابيست م.م.م.ح	الاسم القانوني الكامل باللغة العربية
Full English legal name	smart sense supplies middle EAST FZE	الاسم القانوني الكامل باللغة الانجليزية
Registered address	AMBER GEN TOWERS SM OFFICE E1-1902F, AJMAN, AJMAN FREEZONE, AJMAN, Ajman, United Arab Emirates, 51572, +971505439933	العنوان المسجل
Tax Registration Number	100597503000003	رقم التسجيل الضريبي
Effective Registration Date	01/01/2018	تاريخ التسجيل الفعلي
First VAT Return Period	01 Jan 2018 - 30 Apr 2018 and quarterly thereafter	فترة أول إقرار لضريبة القيمة المضافة
VAT Return due date	28 May 2018	تاريخ استحقاق إقرار ضريبة القيمة المضافة

Start and end dates of Tax periods: 1 Feb to 30 Apr, 1 May to 31 July, 1 Aug to 31  
Oct, 1 Nov to 31 Jan بداية ونهاية الفترات الضريبية

يرجى التأكد من صحة تفاصيل الشهادة. يجب إبلاغ الهيئة الاتحادية للضرائب في حال تغيير الاسس التي حصلت فيها على رقم التسجيل  
الضريبي الخاص بك.

Please check that the details on this certificate are correct. You must inform the Federal Tax Authority of any change on the  
basis of which you obtained your Tax Registration Number.



Issuing Date:

05/04/2018

تاريخ الإصدار



## Certificate of Conformity

BASEC hereby certifies that:

**Dubai Cable Company  
(Private) Limited**

P.O. Box 11529, Old Abu Dhabi Road, Jebel Ali,  
Dubai, United Arab Emirates

Has implemented and maintains a Management  
System that fulfils the requirements of:

**BS EN ISO 9001:2015**

In respect of the location listed above and for the following scope of activities:

**Scope of Certification:**

**The design, manufacture and supply of the following products:  
Electric Power Cables and Wires Rated up to 132 kV  
PVC Compounds**

**Issue no:** 11  
**Date of initial certification:** 28/05/1998  
**Issue date:** 04/06/2020

Signed for and on behalf of the British Approvals  
Service for Cables

*Tony Lioveri*

Date: 04/06/2020

If the conditions set out in the certification agreement  
are not fulfilled this Certificate may be rendered invalid.  
This certificate is issued subject to ongoing surveillance  
for continued compliance, and in accordance with  
BASEC's Regulations.

BASEC, Presley House, Presley Way, Milton Keynes, MK8 0ES, Registered  
in England No. 1150237, Tel: +44(0)1908267300  
Email: mail@basec.org.uk, Web: www.basec.org.uk



**Expiry date: 18/12/2020**





## Certificate of Conformity

BASEC hereby certifies that:

Has implemented and maintains a Management System that fulfils the requirements of:

**Dubai Cable Company  
(Private) Limited**

P.O. Box 11529, Old Abu Dhabi Road, Jebel Ali,  
Dubai, United Arab Emirates

**BS EN ISO 14001:2015**

In respect of the location listed above and for the following scope of activities:

**Scope of Certification:**

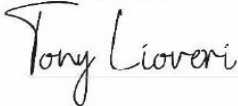
**Management and Control of an Environmental System in respect of the activities at the above site employed in the design, manufacture and supply of:  
Electric Power Cables and Wires up to 132 kV  
PVC Compounds**

**Issue no:** 12

**Date of initial certification:** 28/05/1998

**Issue date:** 04/06/2020

Signed for and on behalf of the British Approvals  
Service for Cables



Date: 04/06/2020

If the conditions set out in the certification agreement are not fulfilled this Certificate may be rendered invalid. This certificate is issued subject to ongoing surveillance for continued compliance, and in accordance with BASEC's Regulations.

BASEC, Presley House, Presley Way, Milton Keynes, MK8 0ES, Registered in England No. 1150237, Tel: +44(0)1908267300  
Email: mail@basec.org.uk, Web: www.basec.org.uk



**Expiry date: 18/12/2020**

## Certificate of Conformity

BASEC hereby certifies that:

**Dubai Cable Company  
(Private) Limited**

P.O. Box 11529, Old Abu Dhabi Road, Jebel  
Ali, Dubai, United Arab Emirates

Has implemented and maintains a Management  
System that fulfils the requirements of:

**BS OHSAS 18001**

In respect of the location listed above and for the following scope of activities:

**Scope of Certification:**

**Management and Control of an Occupational Health & Safety System in respect of the activities at the above site employed in the design, manufacture and supply of:  
Electric Power Cables and Wires up to 132 kV  
PVC Compounds**

**Issue no:** 11

**Date of initial certification:** 18/04/2004

**Issue date:** 04/06/2020

Signed for and on behalf of the British Approvals  
Service for Cables

Date: 04/06/2020

If the conditions set out in the certification agreement  
are not fulfilled this Certificate may be rendered invalid.  
This certificate is issued subject to ongoing surveillance  
for continued compliance, and in accordance with  
BASEC's Regulations.



**Expiry date: 18/12/2020**



# دوطاب Ducab

Date: 22.09.2019

## CERTIFICATE OF ORIGIN

**MANUFACTURER:** Dubai Cable Company (Private) Limited

**PRODUCT RANGE:**

Ducab RuBICC-H07RN-F Rubber Flexible Cables, THHN/THWN Cables, Medium Voltage Cables (PVC & LSZH), Low Voltage Cables (PVC & LSZH), Wiring Cables (PVC & XL-LSZH), Fire Performance Cables (Flam BICC 1,2,3,4 & 6), Flexible Cables (DUFLEX), Instrumentation Cables (PVC & LSZH)

We hereby confirm that the above mentioned cables are manufactured at Dubai Cable Company (Private) Limited, United Arab Emirates and does not include any materials manufactured in Israel.

for Dubai Cable Company (Private) Limited

**Farah Iqbal**  
Senior Commercial Officer - Order Execution



Dubai Cable Company (Private) Limited

PO Box 11529, Dubai

United Arab Emirates

Tel : (971-4) 815 8888

Fax: (971-4) 815 8111

**BICC**



استثمار مشترك بين حكومة دبي وحكومة أبوظبي  
A Joint venture investment between Government of Abu Dhabi and Government of Dubai  
website: www.ducb.com الموقع الإلكتروني: E-mail: ducab@dubai.ae البريد الإلكتروني: Toll Free: 800-Ducab

شركة دبي للكابلات (الخصوصية) المحدودة

ص.ب. ١١٥٢٩ ، دبي

الإمارات العربية المتحدة

هاتف: ٨١٥ ٨٨٨٨ (٩٧١-٤)

فاكس: ٨١٥ ٨١١١ (٩٧١-٤)



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Website: [www.smartsense.asia](http://www.smartsense.asia)



هيئة الإمارات للمواصفات والمقاييس  
Emirates Authority For Standardization & Metrology



**LICENSE FOR THE USE OF  
EMIRATES QUALITY MARK (AL-ALAMA)**



<b>License No:</b>	<b>18-08-11445/Q18-08-000384</b>	<b>رقم الرخصة:</b>
<b>Issue Date:</b>	<b>26-August-2018</b>	<b>تاريخ الإصدار:</b>
<b>Valid Until:</b>	<b>25-August-2021</b>	<b>تاريخ الإنتهاء:</b>
<b>Issued to:</b>	<b>Dubai Cable Co. (Pvt.) Ltd</b> P.O. Box 11529, Dubai, United Arab Emirates	<b>أصدرت إلى:</b>

Based on the Emirates Product Certification Scheme Agreement No. 18-08-11445/Q18-08-000384 for the following:

Product for which the License is granted:	<b>Low Voltage Cables</b>
Product Description:	<b>See Attached Schedule of Certification</b>
Standard:	<b>See Attached Schedule of Certification</b>



جهة معيّنة من قبل هيئة الإمارات للمواصفات والمقاييس  
Notified body by Emirates Authority for Standardization & Metrology



Visit ESMA website [www.esma.gov.ae](http://www.esma.gov.ae) to verify this certification.

[www.esma.gov.ae](http://www.esma.gov.ae)

Any changes or modification on this certificate will affect its validity.

SGS Gulf Limited (DAFZ Branch)

Office # 626, Building- 5WA, Al Quds Street, Dubai Airport Free Zone  
Dubai - United Arab Emirates



+971 4 2283990  
[www.me.sgs.com](http://www.me.sgs.com)  
[Me.Sgs.Esma@sgs.com](mailto:Me.Sgs.Esma@sgs.com)

للتأكد من صحة هذه الشهادة يرجى زيارة موقع هيئة الإمارات للمواصفات والمقاييس على الإنترنت:

[www.esma.gov.ae](http://www.esma.gov.ae)

أي نشاط أو تغيير في هذه الشهادة يلغيها.

أ من جيا من جلف ليمتد (فرع المنطقة الحرة بمطار دبي)

مكتب رقم 626، مبنى 5WA، شارع القدس، المنطقة الحرة في مطار دبي  
دبي - الإمارات العربية المتحدة



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE

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Website: [www.smartsense.asia](http://www.smartsense.asia)



هيئة الإمارات للمواصفات والمقاييس  
Emirates Authority For Standardization & Metrology

علامة الجودة الإماراتية

شهادة مطابقة

**CERTIFICATE OF CONFORMITY**  
EMIRATES QUALITY MARK



Certificate No. 18-08-11445/ Q18-08-000384

Issue Date: 26-August-2018

Valid Until: 25-August-2021

**The Emirates Authority for Standardization & Metrology (ESMA)**

Hereby certify that:

**Dubai Cable Co. (Pvt.) Ltd**

P.O. Box 11529, Dubai, United Arab Emirates

Has complied with the following published documents:

**ESMA General Rules for Emirates Product Certification Scheme**  
In respect of a certification scheme for the manufacture of

**Low Voltage Cables**

These rules have among other things necessitated the submission of samples of the scheduled products for examination and testing by ESMA to the Standards referred to in the schedule. Additionally, the scheme requires the firm:

To permit their facilities at:

- Dubai Cable Co. (Pvt.) Ltd , P.O. Box 11529, Dubai, United Arab Emirates
- Dubai Cable Co. (Pvt.) Ltd – Abu Dhabi Branch 1, P.O. Box 9171, Abu Dhabi, United Arab Emirates
- Dubai Cable Co. (Pvt.) Ltd – Abu Dhabi Branch 2, P.O. Box 9171, Abu Dhabi, United Arab Emirates to be periodically inspected by ESMA.

- (A) To allow samples of the schedule products to be selected from production, or from the market or independent testing and examination for assurance that continuity of conformity is being maintained.

The firm hereby agrees with ESMA to duly observe and comply with the requirements of the scheduled standards, the general and specific rules and with any regulations for the scheme that ESMA may establish.



جهة معيّنة من قبل هيئة الإمارات للمواصفات والمقاييس  
Notified body by Emirates Authority for Standardization & Metrology

Visit ESMA website [www.esma.gov.ae](http://www.esma.gov.ae) to verify this certification.

[www.esma.gov.ae](http://www.esma.gov.ae)

Any changes or modification on this certificate will affect its validity.

SGS Gulf Limited (DAFZ Branch)

Office # 626, Building- 5WA, Al Quds Street, Dubai Airport Free Zone  
Dubai - United Arab Emirates



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[www.me.sgs.com](http://www.me.sgs.com)  
[Me.Sgs.Esma@sgs.com](mailto:Me.Sgs.Esma@sgs.com)

للتأكد من صحة هذه الشهادة يرجى زيارة موقع هيئة الإمارات للمواصفات والمقاييس على الإنترنت:

[www.esma.gov.ae](http://www.esma.gov.ae)

أي كسب أو تغيير في هذه الشهادة يلغها.

اس جي اس جلف ليمتد (فرع المنطقة الحرة بمطار دبي)

مكتب رقم 626، مبنى 5WA، شارع القدس، المنطقة الحرة في مطار دبي  
إبدي - الإمارات العربية المتحدة



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Website: [www.smartsense.asia](http://www.smartsense.asia)

# TEST CERTIFICATES



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
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Website: [www.smartsense.asia](http://www.smartsense.asia)

## ROUTINE TEST CERTIFICATE

**Date** 22.12.2016 **Page** 1 / 1  
**Your Purchase Order / Item / Date**  
DPO-48643 / / 03.06.2015  
**Our Sales Order / Item / Date**  
4009075 / 000220 / 20.06.2015  
**Delivery Note / Item / Date**  
8053078 / 000220 / 22.08.2015  
**Country of Origin : UAE**

### Material Description

**3500485 0.6/1 kV,4 Core X 50 mm<sup>2</sup>, Class 2, Copper Conductor, XLPE Insulated, LSZH Bedded, Galvanised SteelWire Armoured, BLACK LSZH Outer Sheathed, Electric Cable conforming to BS 6724 specification.**

**Batch 0001311607 / Quantity 1,006 M**

Test Description	Unit	Test Method	Observed Values	Lower Spec Limit	Upper Spec Limit
High Voltage Test	-	BS 6724 Annex K	Withstood 3.5 kV AC for 5 Minutes	-	-
Core Colour_1	-	Visual Examination	Red	-	-
Conductor Resistance @ 20°C (DC)	ohm/km	BS EN/IEC 60228	0.3810	-	0.3870
Insulation Resistance @ Amb. Temp.	MΩ.km		19376	1000	-
Core Colour_2	-	Visual Examination	Yellow	-	-
Conductor Resistance @ 20°C (DC)	ohm/km	BS EN/IEC 60228	0.3780	-	0.3870
Insulation Resistance @ Amb. Temp.	MΩ.km		16804	1000	-
Core Colour_3	-	Visual Examination	Blue	-	-
Conductor Resistance @ 20°C (DC)	ohm/km	BS EN/IEC 60228	0.3796	-	0.3870
Insulation Resistance @ Amb. Temp.	MΩ.km		18593	1000	-
Core Colour_4	-	Visual Examination	Black	-	-
Conductor Resistance @ 20°C (DC)	ohm/km	BS EN/IEC 60228	0.3820	-	0.3870
Insulation Resistance @ Amb. Temp.	MΩ.km		19095	1000	-
Marking	-	Visual Examination	OK	-	-
Spark Test Voltage on Insulation	kV AC	BS EN/IEC 62230&BS 5099	OK	8	-
Spark test on oversheath	kV AC	BS EN/IEC 62230&BS 5099	OK	11	-

### Declaration of Conformity

1. We certify that the above cables meets the requirements of BS 6724 specification and order requirements.
2. We certify that the instruments used for conducting the above test were calibrated and meets the requirements as per ISO 17025 latest version.

### Note

1. The furnished tests & results are based on sampling as per Ducab's established Quality Assurance Plan.
2. This certificate is generated from validated test data from Quality Data Base, hence no signature is required.

**\*\*\*END OF REPORT\*\*\***

For Suggestions/Clarification/Complaints, please write to our helpdesk in





**ROUTINE TEST CERTIFICATE**

**Date** 11.05.2017 **Page** 1 / 1  
**Your Purchase Order / Item / Date**  
DPO-49033 / / 20.03.2016  
**Our Sales Order / Item**  
4011522 / 000600  
**Delivery Note / Item**  
8076422 / 000600  
**Country of Origin : UAE**

**Material Description****3500989**

450/750 V,1 Core X 6 mm<sup>2</sup>, Class 2, Copper Conductor, XL-LSZH-90°  
Insulated, Electric Cable conforming to BSEN 50525 - 3 - 41  
Specification.

**Batch 0001653785 / Quantity 176 ROL**

Test Description	Unit	Test Method	Observed Values	Lower Spec Limit	Upper Spec Limit
Core Colour	-	Visual Examination	Red	-	-
Conductor Resistance @ 20°C (DC)	ohm/km	BS EN/IEC 60228	3.0100	-	3.0800
Marking	-	Visual Examination	OK	-	-
Spark Test On Insulation	kV AC	BS EN/ IEC 62230&BS 5099	OK	8	-

**Declaration of Conformity**

1. We certify that the above cables meets the requirements of BSEN 50525 - 3 - 41 specification and order requirements.
2. We certify that the instruments used for conducting the above test were calibrated and meets the requirements as per ISO 17025 latest version.

**Note**

1. The furnished tests & results are based on sampling as per Ducab's established Quality Assurance Plan.
2. This certificate is generated from validated test data from Quality Data Base, hence no signature is required.

**\*\*\*END OF REPORT\*\*\***For Suggestions/Clarification/Complaints, please write to our helpdesk in [tcertificate@ducab.com](mailto:tcertificate@ducab.com)

**ROUTINE TEST CERTIFICATE**

**Date** 17.09.2019 **Page** 1 / 1  
**Your Purchase Order / Item / Date**  
DPO-49903 / / 11.07.2018  
**Our Sales Order / Item**  
4019087 / 000040  
**Delivery Note / Item**  
8116181 / 000040  
**Country of Origin: UAE**

**Material Description****3501021**450/750 V,1 Core X 25 mm<sup>2</sup>, Class 2, Copper Conductor, XL-LSZH-90°  
Insulated, Electric Cable conforming to BSEN 50525 - 3 - 41 specification.**Batch 0002960599/ Quantity 2,040 M**

Test Description	Unit	Test Method	Observed Values	Lower Spec Limit	Upper Spec Limit
Core Colour	-	Visual Examination	Green/Yellow	-	-
Conductor Resistance @ 20°C (DC)	ohm/km	BS EN/IEC 60228	3.0100	-	3.0800
Marking	-	Visual Examination	OK	-	-
Spark Test on Insulation	kV AC	BS EN/ IEC 62230&BS 5099	OK	10	-

**Declaration of Conformity**

1. We certify that the above cables meets the requirements of BSEN 50525 - 3 - 41 specification and order requirements.
2. We certify that the instruments used for conducting the above test were calibrated and meets the requirements as per ISO 17025 latest version.

**Note**

1. The furnished tests & results are based on sampling as per Ducab's established Quality Assurance Plan.
2. This certificate is generated from validated test data from Quality Data Base; hence no signature is required.

**\*\*\*END OF REPORT\*\*\***

# DRAFT WARRANTY



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE  
TEL: 042546843, MOB: 056 525 6961.  
E – MAIL: [amit@smartsensesupplies.me](mailto:amit@smartsensesupplies.me)  
Website: [www.smartsense.asia](http://www.smartsense.asia)



# دوكاب Ducab

## GUARANTEE CERTIFICATE

**Materials : Ducab Cables**

We are pleased to confirm that the cables manufactured by Ducab have a general design life time of twenty five (25) years subject to proper handling, storage, installation and use of the materials.

for Dubai Cable Company (Private) Limited

  
**ULHAS MENON**  
Commercial Development Manager



Dubai Cable Company (Private) Limited

PO Box 11529, Dubai

United Arab Emirates

Tel: (971-4) 8082500

Fax : (971-4) 8082511

**BICC**



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A joint venture investment between Government of Abu Dhabi and Government of Dubai  
Website: [www.ducab.com](http://www.ducab.com) موقع الإنترنت: E-mail: [ducab@ducab.com](mailto:ducab@ducab.com) البريد الإلكتروني  
Toll Free: 800-Ducab

شركة دبي للكابلات (الخصوصية) المحدودة

ص.ب: ١١٥٢٩ ، دبي

الإمارات العربية المتحدة

هاتف: ٨٠٨٢٥٠٠ (٩٧١-٤)

فاكس: ٨٠٨٢٥١١ (٩٧١-٤)



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE

TEL: 042546843, MOB: 056 525 6961.

E – MAIL: [amit@smartsensesupplies.me](mailto:amit@smartsensesupplies.me)

Website: [www.smartsense.asia](http://www.smartsense.asia)

# دوكاب Ducab

## WARRANTY CERTIFICATE

**Materials : LV Cables and Wires**

We are pleased to confirm that LV Cables & Wires supplied by DUCAB are guaranteed against manufacturing defects / bad workmanship for a period of 12 months from the date of commissioning or 18 months from the date of delivery, whichever is earlier, subject to proper handling, storage, installation and use of the materials.

Yours faithfully,

**for Dubai Cable Company (Private) Limited**



**ULHAS MENON**  
Commercial Development Manager.



Dubai Cable Company (Private) Limited

PO Box 11529, Dubai

United Arab Emirates

Tel: (971-4) 8082500

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**BICC**



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A joint venture investment between Government of Abu Dhabi and Government of Dubai  
Website: [www.ducab.com](http://www.ducab.com) موقع الإنترنت: E-mail: [ducab@ducab.com](mailto:ducab@ducab.com) البريد الإلكتروني: Toll Free: 800-Ducab

شركة دبي للكابلات (الخصوصية) المحدودة

ص.ب. ١١٥٢٩، دبي

الإمارات العربية المتحدة

هاتف: ٨٠٨٢٥٠٠ (٤-٩٧١)

فاكس: ٨٠٨٢٥١١ (٤-٩٧١)



S1, WAREHOUSE, 17<sup>th</sup> STREET, UMM RAMOOL, RASHIDIYA DUBAI-UAE

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Website: [www.smartsense.asia](http://www.smartsense.asia)

# **CATALOGUES TECHNICAL DATA SHEETS**



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Website: [www.smartsense.asia](http://www.smartsense.asia)

# دوكاب Ducab

## **Ducab** Smokemaster Low Smoke Zero Halogen (LSZH)



حلول متقدمة للكابلات من خلال التقنية والابداع  
Advanced Cable Solutions Through Technology and Innovation

**BICC**



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Website: [www.smartsense.asia](http://www.smartsense.asia)



# Introduction

Alongside the progress in fire safety engineering in building design, comes the requirement for electrical installations to provide increasingly greater fire protection for buildings and a safer environment for the people who use them. Ducab has made a major contribution to meeting these requirements, with the development of a range of **Ducab Smokemaster** Low Smoke Zero Halogen armoured power and wiring cables.



## Ducab Smokemaster

For installation guidelines please refer to our Cable & Drum Handling Guideline handbook.

This brochure provides product information and technical data for the  
**Ducab Smokemaster** range of Cables

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Website: [www.smartsense.asia](http://www.smartsense.asia)

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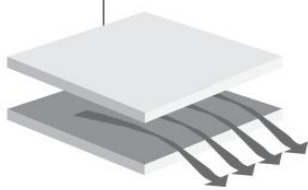
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## Low Smoke Zero Halogen Cables – Why?

All buildings and structures are at risk from fire and so are the people who use them.

The threat which a fire poses isn't confined to the flames and the heat. Smoke, fumes and acid gases produced from the many items within a building's structure, fabric and fittings can spread quickly during a fire.



The structural services of the building, including the **underfloor voids** and **vertical riser ducts** which accommodate cables, can aid the spread of fire and the spread of the smoke and fumes which the fire produces.



These essential structural features form natural draught corridors which spread the problem of smoke and fumes to areas of the building which may not be affected by the fire itself – putting people at risk.

Installing **Ducab Smokemaster** cables can reduce the threat to life by extending the escape and rescue time available.

Smoke diminishes the time available by reducing visibility, hindering mobility and causing bodily harm.

Corrosive acids are formed when the gases released by fire come into contact with moisture. The moisture could be in the air, or could be generated by automatic sprinkler systems. Acid gases are poisonous irritants to people inhaling them. They also attack the electronic circuitry of sophisticated equipment used in modern offices causing costly damage. **Ducab Smokemaster** does not produce acid gas.



**Ducab Smokemaster** cables provide improved fire protection and reduce the risk to building occupants. They are slow to ignite, burn slowly and most importantly, give out negligible amounts of smoke and fumes during a fire.

Much more time is available to enable the orderly evacuation of people from buildings when a fire is discovered. Besides the time needed for people to evacuate a building, extra time is essential to the emergency services personnel who have to enter the building to control and extinguish the fire and assist those needing help.



## Ducab Smokemaster

### Ducab Smokemaster cables resist ignition

- extending the time before cables start to burn in a fire, providing more time to escape.

### Ducab Smokemaster cables reduce fire propagation

- by being slow to burn, reducing the immediate threat and extending escape time.

### Ducab Smokemaster cables reduce smoke to a minimum

- reducing disorientation, confusion and panic. With little smoke, people can see the EXIT routes clearly and have more time to follow them to safety. Emergency services have more time to operate effectively.

### Ducab Smokemaster cables do not contain halogens

- hydrochloric acid is not formed during a fire. There is no threat of inhalation of this highly irritant chemical and no damage to sensitive or costly equipment.

### Ducab Smokemaster cables

- improve safety and human survival in a fire
- allow people to see and breathe safely for longer
- increase time for people to escape
- improve visibility and safety for emergency services
- reduce fire damage of buildings and electronic equipment
- are designed to improve public and environmental safety

Specially conducted fire tests have confirmed the performance advantage of Ducab Smokemaster

#### Fire Test after 6 minutes

Exit and escape lights obscured by dense smoke, hindering escape.



PVC Cable

Exit and escape lights allowing safer evacuation.



Ducab Smokemaster cable

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## Typical Applications

### Places which are regularly densely populated

Hotels  
Commercial Offices  
Multi-Storey Dwellings  
Public Buildings

### Housing people with limited mobility

Hospitals  
Clinics  
Care Homes  
Retirement Homes

### Where people are unfamiliar with a building's layout

Shopping Malls  
Cinemas and Theatres  
Airports



### Involving valuable equipment

Computer Suites  
Defence Installations  
Research Laboratories  
Telecommunications Centres

### Involving high security

Defence installations  
Prisons  
Research Establishments  
Computer Centres

## Performance Standards

**All Ducab Smokemaster products are manufactured to comply with the following fire safety standards:**

### Flame Propagation

**Ducab Smokemaster** armoured cables are flame retardant and comply with BS EN 50266/IEC 60332-3.

**Ducab Smokemaster** wiring cables comply with BS EN 60332 and IEC 60332-1.

### Acid Gas Emissions

IEC 60754 Part 1 & Part 2 define the tests for detecting halogen acid gas emissions from burning materials taken from cables.

**Ducab Smokemaster** cables comply with these halogen free emission standards when exposed to fire.

### Smoke Emission

**Ducab Smokemaster** cables comply with the smoke emission requirements of IEC 61034.

**Emirates Towers Dubai**  
One of the safest  
buildings in Dubai  
thanks to  
**Ducab Smokemaster**  
cables



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# Specification Guidelines

## Design Considerations



**Multi-storey  
Buildings**

A typical multi-storey public building will include many different rooms and facilities including bedrooms, kitchens, communal living and dining areas.

Some floors may be densely populated. There may be visitors who will not be familiar with a building's layout, and there may be people with limited mobility.



**Heavily populated  
with people**

A number of circuits are required for lighting and power supply.

**Ducab Smokemaster** cables can be specified for all these applications, so that people in all parts of the building have longer to evacuate in the event of a fire.



**Frequent visitors  
to the building**



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## DucabSmokemaster

## DucabSmokemaster

### Armoured Cables to BS 6724

### Wiring Cables to BS 7211

- Complies with acid gas emission requirements of IEC 60754 Part 1 & Part 2 and also complies with Category C of IEC 60332 - 3.

- Ducab Smokemaster insulation allows continuous conductor operating temperatures up to 90°C.

- Ducab Smokemaster Armoured Cables are suitable for a wide range of applications including where sections of the cable are underground.

- Maximum conductor temperature allowed under short circuit conditions is 250°C.

- Low Smoke Zero Halogen properties, no halogen acid gas emissions and reduced ignition and fire propagation properties.

- Higher operating and short circuit temperatures provide opportunity to reduce conductor sizes.

- The cable construction combines XLPE conductor insulation with Ducab Smokemaster LSZH bedding and outer sheath.

- All cables have clear identification and marking

- 90°C conductor operating temperature provides the opportunity to reduce conductor sizes.

- Independent product testing to BS 7211 by Warrington Fire Research

- Approved by Lloyds Register (UK)

- BASEC Approved (1.5 to 630 sq mm sizes)

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# Quality Management at Ducab

## *Ducab: Where Quality is a Way of Life*

The definition of quality in Ducab goes far beyond the conformance of product to specified requirements. Ducab is committed to providing the customer with total quality excellence of product and service that fully meets expectations and is superior in value to that which can be obtained elsewhere.



Since its inception, Ducab has an unrivaled reputation for quality in the region. For many years the company has worked to raise quality awareness in Dubai and throughout the Gulf. The

company's Quality Management System was certified to ISO 90001 in 1994 and upgraded in 2002 to the new, more stringent ISO 9001:2000 standard certified by BASEC, a reputed UKAS accredited certification body specializing in the cable industry. Ducab was the first cable company in the Middle East to achieve this distinction.

Ducab is also the first manufacturing company in the Middle East to obtain the ISO 14001 environmental certification, and certified by BASEC.

Ducab's excellence in quality was recognized when the company was awarded the Dubai

Quality Award, in the

very first year of its inception, in 1994.

Ducab has also won the DQA-Gold award again in 1998 and 2004.



### TESTING FACILITIES

Ducab is the only cable manufacturer in the Middle East to have invested in fire testing facilities for fire performance cables and also uses external, independent test houses including Warrington Fire Research in the United Kingdom to test product, to ensure conformance to the relevant standards.

Ducab has invested in the state-of-the-art technology for the testing of cables in fire and has a purpose-built testing facility which includes a 3 metre cube test of smoke density to IEC 61034 – 1 & 2, and a vertical ladder fire test chamber to IEC 60332 – 3.



## Technical Data

### Ducab Smokemaster Wiring Cables to BS 7211

#### 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 7211 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.

**Table 1 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 per amp per metre	Three or Four Cables, Three Phase a.c. Current Rating	Three or Four Cables, Three Phase a.c. Volt Drop per Amp per Metre
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

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# Technical Data

## Ducab Smokemaster Armoured Cables to BS 6724

### Construction

Circular or shaped stranded plain annealed copper conductors,<sup>1</sup> XLPE insulated, LSZH bedded,

galvanised steel wire armoured and LSZH sheathed.

Voltage grades 600/1000V and 1900/3300V.

<sup>1</sup> Aluminium conductors also available on some sizes.

Aluminium armour on single core cables.

### Identification

Core Colours:

Single	- Red or Black
Two	- Red, Black
Three	- Red, Yellow, Blue
Four	- Red, Yellow, Blue, Black
Five	- Red, Yellow, Blue, Black, Green/Yellow

Six and Above - White, printed with Black numerals

Sheath: Black as standard.

Power/Control cables up to five cores are embossed with the legend - BS 6724 ELECTRIC CABLE 600/1000V(or 3300V as appropriate) BICC **Ducab Smokemaster LSZH**.

Multicore auxiliary cables are marked with the legend - BS 6724 ELECTRIC CABLE 600/1000V AUX BICC **Ducab Smokemaster LSZH**.

### Installation

**Ducab Smokemaster** armoured cables are primarily intended for installation in air. To avoid risk of damage during handling they should not be installed in temperatures lower than minus 10°C. Cables with copper conductors should not be bent during installation to radii less than 6 x overall diameter.

(Shaped conductors 8 x overall diameter).

**Ducab Smokemaster** armoured cables combine the excellence of cross linked polyethylene (XLPE) insulation with Low Smoke Zero Halogen

materials as the bedding and outer sheath.

This material is notable for the absence of smoke-generating constituents, particularly halogens (fluorine, bromine, chlorine) thus avoiding the hazards of corrosive and noxious fumes emitted by standard materials such as PVC when exposed to flames.

These cables are developed and manufactured to pass large-scale vertical fire-propagation tests in British and International (IEC) standards. In the three-metre cube smoke emission test they perform to exacting standards.

They are free of added halogens so that acid gas emissions are not detectable when tested to IEC 60754 Part 1 & Part 2. The completed cables comply with Category C of IEC 60332-3.

### Ducab Smokemaster

armoured cables can be used in place of standard PVC insulated armoured cables but can operate continuously at 90°C which means they have higher current and short circuit ratings than conventional PVC insulated armoured cables. As a result it may be possible to use a smaller conductor size.



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## Technical Data

**Table 2 Ducab Smokemaster Single Core Armoured cables 600/1000V Grade**

Conductor Area	Approximate Diameter			Approximate cable Wt.	Maximum armour resistance at 20°C	Maximum conductor resistance at 20°C	Free air (Method 12)			
	Under Armour	Armour wire Dia	Overall				Two cables vertical flat spaced**a.c.		Three cables Trefoil Touching	
mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Current rating Amp	Volt Drop Per Amp Per Metre mV	Current Rating mV	Volt Drop Per Amp Per Metre mV/A/m
V Copper Power Cables 600/1000										
50	12.6	*1.6	18.4	800	1.30	0.387	266	1.00	222	0.87
70	14.5	1.6*	20.2	990	0.75	0.268	337	0.75	285	0.62
95	16.4	*1.6	22.3	1280	0.67	0.193	412	0.60	346	0.47
120	18.0	1.6*	24.2	1550	0.61	0.153	477	0.51	402	0.39
150	19.8	1.6	27.4	1900	0.42	0.124	539	0.45	463	0.33
185	22.0	1.6	30.0	2320	0.38	0.0991	614	0.40	529	0.28
240	24.6	1.6	32.8	2930	0.34	0.0754	714	0.35	625	0.24
300	27.3	1.6	36.6	3580	0.31	0.0601	805	0.32	720	0.21
400	31.2	2.0	40.5	4600	0.22	0.0470	889	0.30	815	0.195
500	36.0	2.0	44.2	5680	0.20	0.0366	989	0.29	918	0.180
630	40.0	2.0	48.8	7160	0.18	0.0283	1092	0.27	1027	0.170
800	45.8	2.5	55.4	9315	0.13	0.0221	1155	0.27	1119	0.165
1000	50.8	2.5	60.6	11490	0.12	0.0176	1238	0.25	1214	0.155

\* Wire diameters are larger than those specified in BS 6724

\*\* Adjacent surfaces separated by one cable diameter.

Installation conditions for above rating

Ambient Air Temperature 30°C Conductor operating temperature 90°C

**Table 3 Ducab Smokemaster Two Core Armoured cables 600/1000V Grade**

Conductor Area	Approximate Diameter			Approximate cable Wt.	Maximum armour resistance at 20°C	Maximum conductor resistance at 20°C	Free air (Method 13)	
	Under Armour	Armour wire Dia	Overall				Current Rating	Volt Drop Per Amp per Metre
mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Amp	mV/A/m
V Copper Power and Control Cables 600/1000							Single phase a.c or d.c	
*1.5	7.8	0.9	12.0	285	10.2	12.1	29	31
2.5*	9.1	0.9	13.0	340	8.8	7.41	39	19
*4	9.7	0.9	14.0	410	7.9	4.61	52	12
*6	10.9	0.9	15.2	490	7.0	3.08	66	7.9
10*	13.0	0.9	17.5	640	6.0	1.83	90	4.7
*16	15.2	1.25	20.4	900	3.7	1.15	115	2.9
*25	18.5	1.25	24.1	1240	3.7	0.727	152	1.9
35*	21.5	1.6	27.7	1710	2.6	0.524	188	1.35
50	18.7	1.6	25.8	1800	2.3	0.387	228	1.00
70	21.5	1.6	29.0	2320	2.0	0.268	291	0.69
95	24.6	2.0	33.1	3150	1.4	0.193	354	0.52
120	26.8	2.0	36.1	3880	1.3	0.153	410	0.42
150	29.7	2.0	39.3	4820	1.2	0.124	472	0.35
185	33.3	2.5	44.7	5920	0.82	0.0991	539	0.29
240	38.1	2.5	49.0	7300	0.73	0.0754	636	0.24
300	42.3	2.5	53.5	8770	0.67	0.0601	732	0.21
400	47.6	2.5	58.2	10770	0.59	0.0470	847	0.19

\* Circular conductor all others are Sector

shaped Installation conditions for above rating Ambient Air Temperature 30°C Conductor operating temperature 90°C

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## Technical Data

**Table 4 Ducab Smokemaster Three Core Armoured Cables 600/1000V Grade**

Conductor Area	Approximate Diameter			Approximate cable Wt	Maximum armour resistance at 20°C	Maximum conductor resistance at 20°C	(Free air (Method 13	
	Under Armour	Armour wire Dia	Overall				Current Rating	Volt Drop Per Amp per Metre
mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Amp	mV/A/m
V Copper Power and Control Cables 600/1000							Three phase a.c	
1.5*	8.3	0.9	12.4	320	9.5	12.1	25	27
2.5*	9.6	0.9	13.5	390	8.2	7.41	33	16
4*	10.4	0.9	14.5	470	7.5	4.61	44	10
6*	11.6	0.9	16.0	565	6.7	3.08	56	6.8
10*	13.6	1.25	19.0	850	4.0	1.83	78	4.0
16*	16.0	1.25	21.6	1130	3.5	1.15	99	2.5
25*	20.0	1.6	26.7	1710	2.5	0.727	131	1.65
35*	22.7	1.6	29.4	2100	2.3	0.524	162	1.15
50	23.0	1.6	28.5	2450	2.0	0.387	197	0.87
70	26.0	1.6	32.2	3120	1.8	0.268	251	0.60
95	30.0	2.0	37.0	4310	1.3	0.193	304	0.45
120	32.8	2.0	40.4	5160	1.2	0.153	353	0.37
150	36.8	2.5	45.5	7160	0.78	0.124	406	0.30
185	41.5	2.5	49.8	8600	0.71	0.0991	463	0.26
240	46.0	2.5	55.1	10755	0.63	0.0754	546	0.21
300	51.5	2.5	60.2	13080	0.58	0.0601	628	0.185
400	56.4	2.5	66.6	15810	0.52	0.0470	728	0.165

**Table 5 Ducab Smokemaster Four Core Armoured Cables 600/1000V Grade**

Conductor Area	Approximate Diameter			Approximate cable Wt	Maximum armour resistance at 20°C	Maximum conductor resistance at 20°C	(Free air (Method 13	
	Under Armour	Armour wire Dia	Overall				Current Rating	Volt Drop Per Amp per Metre
mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Amp	mV
V Copper Power and Control Cables 600/1000							Three phase a.c	
*1.5	9.1	0.9	13.5	380	8.8	12.1	25	27
*2.5	10.6	0.9	14.5	445	7.7	7.41	33	16
*4	11.4	0.9	17.0	550	6.8	4.61	44	10
*6	13.0	1.25	18.5	770	4.3	3.08	56	6.8
*10	15.0	1.25	20.5	1020	3.7	1.83	78	4.0
*16	18.0	1.25	23.5	1320	3.1	1.15	99	2.5
25	20.0	1.6	26.1	1840	2.3	0.727	131	1.65
35	22.8	1.6	28.6	2310	2.0	0.524	162	1.15
50	25.5	1.6	32.0	2970	1.8	0.387	197	0.87
70	29.5	2.0	37.7	4240	1.2	0.268	251	0.60
95	33.5	2.0	41.7	5400	1.1	0.193	304	0.45
120	37.5	2.5	47.1	7000	0.76	0.153	353	0.37
150	41.5	2.5	51.4	8350	0.68	0.124	406	0.30
185	46.0	2.5	56.6	10130	0.61	0.0991	463	0.26
240	52.5	2.5	63.0	12840	0.54	0.0754	546	0.21
300	57.5	2.5	68.8	15530	0.49	0.0601	628	0.185
400	65.0	3.15	78.1	19950	0.35	0.0470	728	0.165

\* Circular conductor all others are Sector shaped

Installation conditions for rating  
Ambient Air Temperature 30 °C  
Conductor operating temperature 90 °C



## Technical Data

**Table 6 Ducab Smokemaster Multi Core Armoured Cables 600/1000V Grade**

Number of Cores	Nominal conductor area	Approximate Diameter			Approximate cable Wt	Approximate armour resistance at 20°C	Maximum conductor resistance at 20°C	(Free air (Method 13	
		Under Armour	Armour wire Dia	Overall				Current Rating	Volt Drop ((3°AC
	mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Amp	mV/A/m
V Copper Auxiliary Control Cables 600/1000									
7	1.5	11.1	0.9	15.2	475	7.5	12.1	19	27
12		14.8	1.25	19.4	790	4.0	12.1	16	27
19		17.5	1.25	22.2	1030	3.5	12.1	14	27
27		21.6	1.6	26.7	1520	2.3	12.1	12	27
37		24.2	1.6	29.0	1840	2.0	12.1	11	27
48		25.9	1.6	32.7	2000	1.8	12.1	10	27
7	2.5	13.0	0.9	17.1	580	6.3	7.41	25	16
12		17.0	1.25	22.4	975	3.5	7.41	21	16
19		20.5	1.6	26.6	1470	2.3	7.41	18	16
27		24.5	1.6	30.7	1900	1.9	7.41	17	16
37		27.5	1.6	33.8	2330	1.7	7.41	15	16
48		31.3	2.0	39.3	3045	1.2	7.41	14	16
7	4	14.6	1.25	19.7	830	4.0	4.61	33	10
12		19.2	1.6	25.7	1340	2.3	4.61	28	10
19		23.1	1.6	29.3	1800	2.0	4.61	24	10
27		27.6	1.6	34.4	2350	1.7	4.61	22	10
37		31.0	2.0	39.2	3320	1.2	4.61	19	10
48		35.6	2.0	44.1	3910	1.0	4.61	17	10

Note: Data for multicore cables with conductor size higher than tabulated is available on request

Installation conditions for rating Ambient Air Temperature 30°C  
Conductor operating temperature 90°C

**Table 7 Ducab Smokemaster Single Core Armoured Cables 1900/3300V Grade**

Conductor Area	Approximate Diameter			Approximate cable wt.	Maximum armour resistance at 20°C	Maximum conductor resistance at 20°C	Free air (Method 12)
	Under Armour	Armour wire Dia	Overall				Current Rating
mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Amps
V Copper Power Cables 1900/3300							Three cable in Trefoil
50	15.0	1.6*	20.6	810	0.75	0.387	228
70	16.6	1.6*	22.4	1040	0.67	0.268	285
95	18.4	1.6*	24.3	1330	0.61	0.193	350
120	19.8	1.6	27.2	1680	0.42	0.153	407
150	21.2	1.6	28.8	1970	0.39	0.124	463
185	23.0	1.6	30.8	2370	0.37	0.0991	528
240	25.5	1.6	33.5	2960	0.34	0.0754	623
300	27.7	1.6	36.1	3610	0.31	0.0601	710
400	31.0	2.0	40.5	4600	0.22	0.0470	808
500	36.0	2.0	44.2	5680	0.20	0.0366	915
630	40.0	2.0	48.8	7160	0.18	0.0283	1030
800	45.8	2.5	55.4	9150	0.13	0.0221	1119
1000	50.8	2.5	60.6	11270	0.12	0.0176	1214

\* Wire diameters are larger than those specified in BS6724

Installation conditions for above rating Ambient Air Temperature 30°C  
Conductor operating temperature 90°C

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# Technical Data

**Table 8 Ducab Smokemaster Three Core Armoured Cables 1900/3300V Grade**

Conductor Area	Approximate Diameter			Approximate cable wt.	Maximum armour resistance at 20°C	Maximum conductor resistance at 20°C	Free air (Method 13)
	Under armour	Armour wire dia	Overall				Current Rating
mm <sup>2</sup>	mm	mm	mm	kg/km	Ohm/km	Ohm/km	Amps
<b>V Copper Power Cables 1900/3300</b>							Three phase AC
*16	21.5	1.6	29.3	1600	1.9	1.15	106
*25	24.5	1.6	32.2	2060	1.7	0.727	142
*35	26.5	1.6	34.8	2400	1.8	0.524	168
50	25.2	2.0	34.7	3200	1.3	0.387	202
70	28.4	2.0	38.0	3800	1.2	0.268	255
95	31.0	2.0	41.4	4730	1.1	0.193	312
120	36.6	2.5	45.7	6070	0.76	0.153	361
150	38.5	2.5	48.5	7010	0.71	0.124	410
185	42.5	2.5	51.9	8270	0.65	0.0991	471
240	47.8	2.5	56.9	10310	0.59	0.0754	554
300	52.5	2.5	61.2	12300	0.55	0.0601	634
400	56.4	2.5	66.6	14980	0.50	0.0470	734

Circular conductor \*

Installation conditions for above rating Ambient Air Temperature 30°C  
Conductor operating temperature 90°C

## Rating Correction Factors (Ca)

For ambient temperatures other than 30°C, the tabulated current ratings must be adjusted by temperature correction factors listed below:

### Derating Factors for Cables with a 90°C Operating Temperature

Ambient Temperature °C	25	35	40	45	50	55
Fuse to BS 88 or BS 1361 or Circuit Breaker to BS 3871 or BS EN 60898	1.02	0.96	0.91	0.87	0.82	0.76
Semi-enclosed Fuse to BS 3036	1.02	0.98	0.95	0.93	0.91	0.89

**NOTE:** All operational data is circulated on the basis of cables installed in air. Where the conductor is to be protected by a semi-enclosed fuse to BS 3036, see item 6.2 of the preface to Appendix 4 of BS 7671.

## Group Rating Correction Factors (Cg)

For groups of more than one circuit of single core cables, or more than one multicore cable (to be applied to the corresponding current-carrying capacity for a single circuit in the previous Current Ratings Tables).

### Derating Factors for Cables with a 90°C Operating Temperature

Number of Circuits or Multi-core Cables	2	3	4	5	6	8	10	12	14	16	18	20
Grouping Factors for Reference Methods 1 and 3 in Table 4A of BS 7671 IEE Wiring Regulations	0.8	0.7	0.65	0.6	0.57	0.52	0.48	0.45	0.43	0.41	0.39	0.38

Note: All operational data is circulated on the basis of cables installed in air





## Technical Data

### Short Circuit Current Rating Formula

The formula given below is based on the cables being fully loaded at the start of a short circuit (conductor temperature 90°C) and a final conductor temperature of 250°C. It should be ensured that the accessories associated with the cables are also capable of operation at these values of fault current and temperature.

$$I = \frac{kS}{\sqrt{t}} \quad \text{Amps}$$

Where

- I = Short circuit current (Amps)
- S = Copper area of conductor (mm<sup>2</sup>)
- t = Duration of short circuit current (seconds) up to 5 seconds maximum
- k = Constant to allow for an initial temperature of 90°C & final conductor temperature of 250°C = 143

### Special precautions for handling/installation LSZH (Low Smoke Zero Halogen) Sheathed Cables

#### Cable Sheath Application

Material	Key Properties	Recommended for
PE	High mechanical strength	Direct burial/Duct Installations
PVC	Flexibility & Flame Retardance	General purpose, Laying in trench
LSZH	Zero Halogen / Low Smoke	Mass Transit Systems, High rise buildings & confined locations

Cables like LSZH sheath need to be handled with care during installation. While special additives are used in the formulation of LSZH compound to give the typical flame retardant characteristics of Zero halogen polymers (e.g. high oxygen index, very low smoke density, no acid gas liberation and retardance to flame propagation) some mechanical properties deteriorate. The following basic installation methods are particularly applicable.

- a) Cables should not be exposed to sunlight for considerable period before installation i.e., the temp. of the cable sheath should be below 40 degree Celsius.
- b) Preferably the installation is done during morning hours when the ambient temp is low.
- c) Wire/Rope should not be used directly on cable sheath for pulling.
- d) When pulled on cable trays/or any uneven surface, special attention is needed to weldings/or unusually rough terrains.
- e) Rollers and bends should not have any sharpness which may damage sheath.
- f) Special LSZH compatible accessories and fixings are recommended for installations requiring enhanced fire performance.



# Ducab Smokemaster LSZH Components Look Up Chart

## Ducab Smokemaster 600/1000V Cables to BS 6724

### COMPONENTS REFERENCE CHART

Nominal Con. Area mm <sup>2</sup>	No. of cores	Thread Size mm	BW Indoor Gland LSZH Kit Reference	CW Outdoor Gland LSZH Kit Reference	E1W Outdoor Gland LSZH Kit Reference	Tekleat Ref 385LSZH	Ranger Cleat Ref 382LSZH	Bolt Cleat 2 Ref 374 LSZH	LSZH Resin Joint	Copper Connectors Lugs
1.5	2	20	LSZH20SBW	LSZH20SCW	LSZH20SSE1W	01	-	-	-	BT2CS
	3	20	LSZH20SBW	LSZH20SCW	LSZH20SSE1W	01	01	-	-	BT2CS
	4	20	LSZH20SBW	LSZH20SCW	LSZH20SSE1W	01	01	-	-	BT2CS
	7	20	LSZH20SBW	LSZH20CW	LSZH20E1W	02	01	-	-	BT2CS
	12	25	LSZH25BW	LSZH25CW	LSZH25E1W	02	02	-	-	BT2CS
	19	25	LSZH25BW	LSZH25CW	LSZH25E1W	04	03	-	-	BT2CS
	27	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	03	-	-	BT2CS
	37	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	-	BT2CS
	2	20	LSZH20SBW	LSZH20SCW	LSZH20SSE1W	01	01	-	-	BT2CS
	3	20	LSZH20SBW	LSZH20SCW	LSZH20SSE1W	02	01	-	-	BT2CS
2.5	4	20	LSZH20SBW	LSZH20CW	LSZH20E1W	03	01	-	-	BT2CS
	7	20	LSZH20SBW	LSZH20CW	LSZH20E1W	03	01	-	-	BT2CS
	12	25	LSZH25BW	LSZH25CW	LSZH25E1W	04	03	-	-	BT2CS
	19	25	LSZH25BW	LSZH25CW	LSZH25E1W	05	03	-	-	BT2CS
	27	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	-	BT2CS
	37	40	LSZH40BW	LSZH40CW	LSZH40E1W	07	04	-	-	BT2CS
	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	02	01	-	ZHMP12	BT6S
	3	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	02	01	-	ZHMP12	BT6S
	4	20	LSZH20SBW	LSZH20CW	LSZH20E1W	03	01	-	ZHMP12	BT6S
	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
4	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
	3	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
	4	20	LSZH20SBW	LSZH20CW	LSZH20E1W	04	02	-	ZHMP12	BT6S
	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
6	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
	3	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
	4	20	LSZH20SBW	LSZH20CW	LSZH20E1W	04	02	-	ZHMP12	BT6S
	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT6S
10	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT10S
	3	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	04	02	-	ZHMP12	BT10S
	4	25	LSZH25BW	LSZH25CW	LSZH25E1W	04	02	-	ZHMP12	BT10S
	2	20	LSZH20SBW	LSZH20CW	LSZH20SSE1W	03	02	-	ZHMP12	BT10S
16	2	25	LSZH25BW	LSZH25CW	LSZH25E1W	04	03	-	ZHMP12	BT16S
	3	25	LSZH25BW	LSZH25CW	LSZH25E1W	04	03	-	ZHMP13	BT16S
	4	25	LSZH25BW	LSZH25CW	LSZH25E1W	05	04	-	ZHMP13	BT16S
	2	25	LSZH25BW	LSZH25CW	LSZH25E1W	04	03	-	ZHMP13	BT16S





Nominal Con. Area mm <sup>2</sup>	No. of cores	Thread Size mm	BW Indoor Gland LSZH Kit Reference	CW Outdoor Gland LSZH Kit Reference	E1W Outdoor Gland LSZH Kit Reference	Teleclat Ref. 385LSZH	Ranger Clat Ref. 382LSZH	2 Bolt Clat Ref. 374LSZH	LSZH Resin Joint	Copper Connectors Lugs
25	2	25	LSZH25BW	LSZH25CW	LSZH25E1W	05	03	-	ZHMP2	BT25CS
	3	32	LSZH32BW	LSZH32CW	LSZH32E1W	05	03	-	ZHMP3	BT25CS
	4	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP4	BT25CS
35	2	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP3	BT35CS
	3	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP4	BT35CS
	4	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP4	BT35CS
50	2	25	LSZH25BW	LSZH25CW	LSZH25E1W	05	03	-	ZHMP3	BT50CS
	3	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP5	BT50CS
	4	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP5	BT50CS
70	2	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP4	BT70CS
	3	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP5	BT70CS
	4	40	LSZH40BW	LSZH40CW	LSZH40E1W	07	05	-	ZHMP5	BT70CS
95	2	32	LSZH32BW	LSZH32CW	LSZH32E1W	06	04	-	ZHMP4	BT95CS
	3	40	LSZH40BW	LSZH40CW	LSZH40E1W	07	05	-	ZHMP5	BT95CS
	4	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP5	BT95CS
120	2	40	LSZH40BW	LSZH40CW	LSZH40E1W	07	04	-	ZHMP5	BT120CS
	3	50	LSZH50BW	LSZH50CW	LSZH50E1W	07	05	-	ZHMP6	BT120CS
	4	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP6	BT120CS
150	2	40	LSZH40BW	LSZH40CW	LSZH40E1W	07	05	-	ZHMP5	BT150CS
	3	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP6	BT150CS
	4	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP6	BT150CS
185	2	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP5	BT185CS
	3	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP6	BT185CS
	4	63	LSZH63BW	LSZH63CW	LSZH63E1W	-	06	01	ZHMP6	BT185CS
240	2	50	LSZH50BW	LSZH50CW	LSZH50E1W	08	05	-	ZHMP6	BT240CS
	3	63	LSZH63BW	LSZH63CW	LSZH63E1W	-	06	01	ZHMP7	BT240CS
	4	63	LSZH63BW	LSZH63CW	LSZH63E1W	-	06	02	ZHMP7	BT240CS
300	2	50	LSZH50BW	LSZH50CW	LSZH50E1W	-	06	01	ZHMP6	BT300CS
	3	63	LSZH63BW	LSZH63CW	LSZH63E1W	-	06	02	ZHMP7	BT300CS
	4	75	LSZH75BW	LSZH75CW	LSZH75E1W	-	06	03	ZHMP7	BT300CS
400	2	63	LSZH63BW	LSZH63CW	LSZH63E1W	-	06	02	-	BT400CS
	3	75	LSZH75BW	LSZH75CW	LSZH75E1W	-	06	03	-	BT400CS
	4	75	LSZH75BW	LSZH75CW	LSZH75E1W	-	06	04	ZHMP8	BT400CS

## All components available from Ducab Connect and authorised distributors

Please Note: When ordering connectors specify stud hole size required, eg. BT10CS8 is a 10 mm<sup>2</sup> connector with a 8 mm stud hole.

Important Note: The dimensions of cables vary with manufacturing tolerances. We advise the cable diameter is measured where possible before purchasing component. The recommendations here are given in good faith but Ducab Connect cannot be held liable for mistakes in selection however caused.

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# دوكاب Ducab

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