

دوكاب Ducab

"دوفلكس" - الكابلات المرنة **DuFlex - Flexible Cables**



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

BICC

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INTRODUCTION

Established in 1979, Ducab is the leading cable manufacturing company in the region and is equally owned by the Governments of Dubai and Abu Dhabi. Ducab has three major manufacturing facilities that support its continuous growth, one in Jebel Ali and two in Abu Dhabi Industrial City. Ducab-HV, inaugurated in November 2011, is a joint venture between Ducab, ADWEA and DEWA offering High Voltage cable systems up to 400 kV. Ducab-HV will sell cable systems in the voltage range 66kV (66,000 Volts) to 400kV (400,000 Volts) covering the highest voltage currently used in the GCC.

To meet the growing demand of customers around the region and the world, Ducab continues to expand its world-class facilities across the Middle East, North Africa, Europe and India. Ducab prides itself on setting and maintaining the highest quality standards of power cables. Experienced and highly skilled employees operate state-of-the-art equipment, and conduct extensive testing at every phase of production.

When it comes to advanced cable solutions, Ducab continues its status as the superbrand across the world in 40 countries. Ducab product range covers High Voltage cables up to 400kV, Ducab Powerplus Medium Voltage cables up to 33kV, Low Voltage power cables, Control & Auxiliary, Wiring and Lead-Sheathed cables, Ducab Smokemaster - Low Smoke Zero Halogen Cables, and Ducab Flam BICC (Fire Resistance cables), Instrumentation and Pilot cables, Cable components and cable accessories, Installation of cables, as well as Copper rod manufactured in Ducab's own Copper rod plant.

This catalogue provides working information on Ducab's Flexible cables. Separate catalogues are available for the remaining range of Ducab Cables.

ORDERING ADVICE

Due to the wide range of cables in the catalogue, it is advisable, when ordering, to provide as much information as possible. Please use the following table as a guide:

1. Cable standard / specification number.
2. Voltage designation.
3. Number of cores.
4. Conductor size.
5. Colour of outer sheath.
6. Length of cables required and individual drum lengths.*
7. Any other special requirement, e.g. special PVC sheath material, drum weight limitation, etc.

* Cables are normally supplied in lengths of 100 metres, 500 metres and 1000 metres depending on conductor size. Other lengths can be supplied if required.

TECHNICAL ADVISORY SERVICE

For any specialist advice and assistance on the entire Ducab product range contact the Technical Department, Dubai Cable Company (Private) Limited, P. O. Box 11529, Dubai, U. A. E., Tel: 971 4 815 8888, Fax: 971 4 815 8111.

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CUSTOMER SERVICE

Ducab is the premier cable manufacturer in the United Arab Emirates and, since 1979, has been meeting the requirements of customers throughout the GCC, Middle East and Asian markets. Ducab cables are preferred for the following reasons:

PRODUCT QUALITY

Ducab is committed to supplying its customers with the highest quality of product and of service. Ducab's cables have been type approved by recognized certifying bodies such as BASEC UK (British Approval Service for Cables), Lloyd's



Register of the UK, KEMA Netherland, LPCB UK (Loss Prevention Certification Board), ESMA (Emirates Authority for standardization and Metrology). They fully conform to BS, IEC other international and national specifications.

In addition, Ducab was presented with the Dubai Quality Award 1994, for the best local industrial company of the year. Ducab won Dubai Quality Gold Category award twice, in 1998 and in 2004. The Gold Award rewards the most distinguished companies which are judged to be world class and Ducab is the only manufacturing company in the region to win such acclaim.

Ducab has won the Sheikh Mohammed Bin Rashid Al Maktoum (MRM) Business Excellence Award in manufacturing category in 2009. Recognizing quality products and services, Ducab has also won the Superbrand award for 4 years consecutively from 2009.

RELIABILITY

Specifying the right cable for a particular application is the first step. The key to reliability however, is in the manufacturing process. The cable must be free from material and manufacturing defects, and weaknesses that will be revealed in service.

Ducab constantly monitors its manufacturing processes and operates stringent quality assurance procedures to give long term reliability. This is of vital significance where cables are to be installed in locations where future access would be difficult and this is where Ducab's reputation and resources give peace of mind.

PERFORMANCE

Optimum cable performance can be provided only by a company such as Ducab, with access to the latest developments in materials technology. In addition, Ducab's knowledge of application requirements throughout the Middle and Far East is an assurance of high performance.

Our experienced Technical Staff can provide guidance on cable selection and installation and can ensure that you get the right cable for the job.

HEALTH & SAFETY MANAGEMENT SYSTEM CERTIFIED TO OHSAS 18001



Ducab is able to maintain a close watch on world developments in cable technology and regulations and therefore ensure that its products are designed and constructed to be hazard-free under the prescribed conditions of use.

Ducab uses only tried and tested materials and processes in full compliance with all relevant British and International Standards. Our cables are therefore manufactured for safe use without risk to health on the understanding that users will exercise the same degree of care in their selection and application.



Joint Winner
MANUFACTURING
INDUSTRY
Sector Award

Safety is an important issue for Ducab, and the strictest standards are adhered to throughout the company. Ducab is proud of its safety record and has been awarded RoSPA (Royal Society for the Prevention of Accidents) Gold Awards for safety from 1991 to 1999. From 2000 onward, Ducab was awarded the prestigious President's Award for Health and

Ducab دوكاب

Safety which is a recognition of Ducab winning 10 consecutive annual Gold awards and acknowledges Ducab's total commitment to health and safety. In 2002, Ducab was declared the joint winner of the Manufacturing Industry Sector Award from RoSPA.

Ducab is the first organisation in the Middle East to receive accreditation to OHSAS 18001 by BASEC (British Approvals Service for Cables). Certification to OHSAS 18001 provides a recognisable Occupational Health and Safety Management standard against which an organisation's management systems can be assessed and certified. Based on the structure of OHSAS 18001, the standard requires continual improvement in health and safety related activities.

QUALITY MANAGEMENT SYSTEM CERTIFIED TO ISO 9001



Ducab's Quality Management System conforms to the ISO 9001 International Quality System Standard and is certified by BASEC (British Approvals Service for Cables), a specialist certifying body for cables who are an internationally recognised quality authority accredited in the UK and throughout the world.

Certification to the ISO 9001 International standard demonstrates that Ducab has drawn up written procedures to ensure full compliance with all requirements of the standard and that these procedures are followed by every department in the company, thus ensuring that goods leaving Ducab's factory are of the highest quality and meet each customer's requirements in every respect.

Ducab is particularly proud to have achieved certification to the stringent ISO 9001 standard as it is an independent conformation that the company designs, manufactures and tests cables consistently to accepted standards. ISO 9001 is widely used throughout Europe, and is therefore a reassurance to Ducab's customers that the products and service supplied by the company are equal to the best in the world.

ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED TO ISO 14001

Ducab's Environmental Management System conforms to the ISO 14001 International Environmental Management Standard and is certified by BASEC who are an internationally recognised certifying authority accredited in the UK and throughout Europe.

Certification to the ISO 14001 International standard shows that Ducab has a well defined structure and established working practices aimed at limiting its impact on the environment. Measurement and monitoring of effects, issuing work instructions, training of personnel and taking corrective actions are all essential elements to limiting the impact on the environment. Ducab has set improvement targets to reduce the significant environmental impacts associated with its activities.



Ducab is proud to be the first cable manufacturer in the region to achieve certification to ISO 14001 and this certification along with its quality, business success and safety record demonstrates that Ducab is a world class organisation and can hold its head up to any business community throughout the world.

BASEC CERTIFICATION

Ducab is also proud to hold a Process capability certification issued by BASEC (British Approvals Service for Cables) for several cables in its product range.

DUCAB SHAREEK

Ducab's customer satisfaction programme is designed to ensure that customers receive a consistently high level of service from Ducab's dedicated staff.



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INTRODUCTION TO DUFLEX CABLE

At Ducab, we are focused on providing our customers with high quality products using the latest and updated state-of-the-art technology. We support our customers with outstanding service and provide all necessary technical information and assistance.

Single and Multi-Core Flexible cables have been designed for indoor wiring applications, and are suitable for use in office equipment, domestic appliances, kitchen utensils, lamps, medical devices, and any type of electrical/electronic equipment.

The conductor is made of plain annealed high purity Class 5 Copper, having excellent specific electrical conductivity, and superior mechanical flexibility thanks to DuFlex conductor construction.

Polyvinyl Chloride (PVC) is used for insulating and sheathing material as it is suitable for various flexible applications like high electrical, mechanical and thermal properties.

Ducab is also able to supply cables with special PVC Compounds suitable for continuous operating temperatures up to 105°C. These cables are certified by BASEC.

DuFlex products are designed and manufactured complying with the most recent international standards including BS 6004, BS 6500, BS 7919, IEC 60227.

On your request cables can be supplied as per your project requirements.

INFORMATION

Cenelec Standards published the harmonization documents HD 361 S2 & HD 361 S3 to illustrate the code designation of Harmonized wires and cables. Listed below are some of the most commonly used codes and abbreviations for Flexible Cables.

1- Type of determination

H: Cables and wires to the Harmonized Determination

A: Approved national type

2- Voltage designation U0/U

03: 300/300 V

05: 300/500 V

07: 450/750 V

3- Insulation Material

V: PVC insulation suitable for continuous operating temperature up to 70°C

V2: PVC insulation heat resistance suitable for continuous operating temperature up to 90°C or 105° C

4- Sheathed Material

V: PVC Sheathing suitable for continuous operating temperature up to 70°C

V2: PVC Sheathing suitable for continuous operating temperature up to 90°C or 105°C

5- Type of Conductor

K: Flexible Conductor for fixed laying

F: Flexible Multi-Core

IDENTIFICATION

a. Single Core Cables

- Single Phase System: Green/Yellow (earth), Blue (Neutral), Brown (Live)

- Three Phase System: Green/Yellow (earth), Blue (Neutral), Brown, Black & Grey (Live)

Note: Other colours are available as per client requirement

b. Multi-Core Cables

2 Cores: Blue & Brown



3- Cores: Green/Yellow, Blue & Brown



4- Cores: Green/Yellow, Blue, Brown & Black
or Green/Yellow, Brown, Black & Gray



5- Cores: Green/Yellow, Black, Blue, Brown & Black



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SINGLE CORE PVC INSULATED NON-SHEATHED CABLE FOR INTERNAL WIRING 300/500 V

Technical Specification

Single Core PVC Insulated Non-Sheathed Cable for internal wiring 300/500 V.

Standard

BS 6004.

Application

Suitable for installation in surface mounted or embodied conduits, for signaling or control circuits.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 1 to BSEN 50363-3.

Packing

Coils or Plastic Spools in 100 meters.

Other lengths are available upon customer request.



H05V-K

Conductor Cross-Sectional area	Nominal Radial Thickness of Insulation	Mean Overall Diameter		Conductor Resistance At 20°C Max.	Minimum Insulation Resistance at 70°C	Cable Approximate Weight
		Min	Max			
mm ²	mm	mm		Ω/km	M Ω .km	kg/km

H05V-K

0.5	0.6	2.1	2.5	39	0.013	9
0.75	0.6	2.2	2.7	26	0.011	12
1	0.6	2.4	2.8	19.5	0.010	15

SINGLE CORE PVC INSULATED NON-SHEATHED HEAT RESISTANT CABLE FOR INTERNAL WIRING 300/500 V

Technical Specification

Single Core PVC Insulated Non-Sheathed heat resistant cable for internal wiring 300/500 V. Available for 90°C or 105°C operating temperature to suit the client specific requirement.

Standard

BS 6004.

Application

Suitable for maximum conductor temperature of use 90°C or 105°C for internal wiring requiring high temperature application.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 3 to BSEN 50363-3.

Packing

Coils or Plastic Spools in 100 meters.

Other lengths are available upon customer request.



H05V2-K

Conductor Cross-Sectional area	Nominal Radial Thickness of Insulation	Mean Overall Diameter		Conductor Resistance At 20°C Max.	Minimum Insulation Resistance at 90°C	Cable Approximate Weight
		Min	Max			
mm ²	mm	mm		Ω /km	M Ω .km	kg/km

H05V2-K

0.5	0.6	2.1	2.5	39	0.013	9
0.75	0.6	2.2	2.7	26	0.011	12
1	0.6	2.4	2.8	19.5	0.010	15

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**SINGLE CORE PVC INSULATED NON-SHEATHED
GENERAL PURPOSE CABLE 450/750 V****Technical Specification**

Single Core PVC Insulated Non-Sheathed general purpose cable 450/750 V

Standard

BS 6004.

Application

Suitable for use in channels with cover, suitable for fixed protected installation in or on light fittings and inside appliances, switch gear and control gear, for voltage up to 1000 V a.c. or up to 750 V to earth d.c.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 1 to BSEN 50363-3.

Voltage Rating

450/750 V.

Packing

Coils or Plastic Spools in 100 meters for sizes up to 16 mm²

Sizes more than 16 mm² shall be 500 or 1000 meters packed in wooden drums/reels.

Other lengths are available upon customer request.



H07V-K

Conductor Cross-Sectional area	Nominal Radial Thickness of Insulation	Mean Overall Diameter		Conductor Resistance At 20°C Max.	Minimum Insulation Resistance at 70°C	Cable Approximate Weight
		Min	Max			
mm ²	mm	mm		Ω /km	M Ω .km	kg/km

H07V-K (70°C)

1.5	0.7	2.8	3.4	13.3	0.010	21
2.5	0.8	3.4	4.1	7.98	0.0095	35
4	0.8	3.9	4.8	4.95	0.0078	49
6	0.8	4.4	5.3	3.3	0.0068	68
10	1.0	5.7	6.8	1.91	0.0065	114
16	1.0	6.7	8.1	1.21	0.0053	170
25	1.2	8.4	10.2	0.780	0.0050	265
35	1.2	9.7	11.7	0.554	0.0043	376
50	1.4	11.5	13.9	0.386	0.0042	538
70	1.4	13.2	16.0	0.272	0.0036	743
95	1.6	15.1	18.2	0.206	0.0036	981
120	1.6	16.7	20.2	0.161	0.0032	1238
150	1.8	18.6	22.5	0.129	0.0032	1600
185	2.0	20.6	24.9	0.106	0.0032	2000
240	2.2	23.5	28.4	0.0801	0.0031	2500

SINGLE CORE PVC INSULATED NON-SHEATHED HEAT RESISTANT CABLE FOR INTERNAL WIRING 450/750 V**Technical Specification**

PVC Insulated Non-Sheathed heat resistant cable for internal wiring 450/750 V. Available for 90°C or 105°C operating temperature to suit the client specific requirement.

Standard

BS 6004.

Application

Suitable for maximum conductor temperature in normal use 90°C or 105°C

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 3 to BSEN 50363-3.

Packing

Coils or Plastic Spools in 100 meters for sizes up to 16 mm²

Sizes more than 16 mm² shall be 500 or 1000 meters packed in wooden drums/reels.

Other lengths are available upon customer request.



H07V2-K

Conductor Cross-Sectional area	Nominal Radial Thickness of Insulation	Mean Overall Diameter		Conductor Resistance At 20°C Max.	Minimum Insulation Resistance at 90°C	Cable Approximate Weight
		Min	Max			
mm ²	mm	mm		Ω /km	M Ω .km	kg/km

H07V2-K

1.5	0.7	2.8	3.4	13.3	0.010	21
2.5	0.8	3.4	4.1	7.98	0.0095	35
4	0.8	3.9	4.8	4.95	0.0078	49
6	0.8	4.4	5.3	3.3	0.0068	68
10	1.0	5.7	6.8	1.91	0.0065	114
16	1.0	6.7	8.1	1.21	0.0053	170
25	1.2	8.4	10.2	0.780	0.0050	265
35	1.2	9.7	11.7	0.554	0.0043	376

MULTI-CORE LIGHT DUTY PVC INSULATED AND SHEATHED FLEXIBLE CORD, CIRCULAR TWIN, 3-CORE AND 4-CORE, 300/300 V**Technical Specification**

Multi-Core Light Duty PVC Insulated and Sheathed flexible cord, circular twin, 3-core and 4-core, 300/300 V

Standard

BS 6500.

Application

Light duty cable for use in domestic premises, kitchens and offices and light portable appliances such as radios and table lamps.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 2 to BSEN 50363-3.

Insulation colours

2-Core: Blue and Brown

3-Core: Green/Yellow, Blue and Brown

4-Core: Green/Yellow, Blue, Brown and Black

OR Green/Yellow, Brown, Black and Grey

Sheathing

PVC Type TM 2 to BSEN 50363-4-1.

Standard Sheath Colour

White

Packing

Coils in 100 meters

Other lengths and sheath colours are available upon customer request.



H03VV-F

Conductor Cross-Sectional area	Nominal Radial Thickness of Insulation	Radial Thickness of sheath	Mean Overall Diameter		Conductor Resistance At 20°C Max.	Minimum Insulation Resistance at 70°C	Cable Approx. Weight
			Min	Max			
mm ²	mm	mm	mm		Ω/km	M Ω .km	kg/km

Two Cores

0.5	0.5	0.6	4.6	5.9	39	0.011	37
0.75	0.5	0.6	4.9	6.3	26	0.010	46

Three Cores

0.5	0.5	0.6	4.9	6.3	39	0.011	44
0.75	0.5	0.6	5.2	6.7	26	0.010	55

Four Cores

0.5	0.5	0.6	5.4	6.9	39	0.011	54
0.75	0.5	0.6	5.7	7.3	26	0.010	69

MULTI-CORE LIGHT DUTY 90°C PVC INSULATED AND SHEATHED FLEXIBLE CORD, CIRCULAR TWIN, 3-CORE AND 4-CORE, 300/300 V

Technical Specification

Multi-Core Light Duty 90°C PVC Insulated and Sheathed flexible cord, circular twin, 3-core and 4-core, 300/300 V.

Also available for 105°C operating temperature to suit the client specific requirement.

Standard

BS 6500.

Application

Light duty cable for use in domestic premises, kitchens and offices and light portable appliances such as radios and table lamps. Suitable for 90°C or 105°C maximum conductor temperature in normal use.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 3 to BSEN 50363-3.

Insulation colours

2-Core: Blue and Brown

3-Core: Green/Yellow, Blue and Brown

4-Core: Green/Yellow, Blue, Brown and Black

OR Green/Yellow, Brown, Black and Grey

Sheathing

PVC Type TM 3 to BSEN 50363-4-1.

Standard Sheath Colour

White

Packing

Coils in 100 meters

Other lengths and sheath colours are available upon customer request



H03V2V2-F

Conductor Cross-Sectional area	Nominal Radial Thickness of Insulation	Radial Thickness of sheath	Mean Overall Diameter		Conductor Resistance At 20°C Max.	Minimum Insulation Resistance at 90°C	Cable Approx. Weight
			Min	Max			
mm ²	mm	mm	mm		Ω /km	M Ω .km	kg/km

Two Cores

0.5	0.5	0.6	4.6	5.9	39	0.011	37
0.75	0.5	0.6	4.9	6.3	26	0.010	46

Three Cores

0.5	0.5	0.6	4.9	6.3	39	0.011	44
0.75	0.5	0.6	5.2	6.7	26	0.010	55

Four Cores

0.5	0.5	0.6	5.4	6.9	39	0.011	54
0.75	0.5	0.6	5.7	7.3	26	0.010	69

MULTI-CORE ORDINARY DUTY PVC INSULATED AND SHEATHED FLEXIBLE CORD, CIRCULAR TWIN, 3-CORE AND 4-CORE, 300/500 V**Technical Specification**

Multi-Core Ordinary Duty PVC Insulated and Sheathed flexible cord, circular twin, 3-core and 4-core, 300/500 V

Standard

BS 6500 for sizes upto 2.5mm². BS 7919 for 4mm².

Application

For use in offices and household appliances such as computers, spin extractors, washing machines, spin dryers and refrigerators and also for all kinds of outdoor industrial use.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 2 to BSEN 50363-3.

Insulation colours

2-Core: Blue and Brown

3-Core: Green/Yellow, Blue and Brown

4-Core: Green/Yellow, Blue, Brown and Black or
Green/Yellow, Brown, Black and Grey

5-Core: Green/Yellow, Blue, Brown, Black and Grey

Sheathing

PVC Type TM 2 to BSEN 50363-4-1.

Standard Sheath Colour

White

Packing

Coils in 100 meters

Other lengths and sheath colours are available upon customer request



HO5VV-F

Conductor Cross-Sectional Area	Nominal Radial Thickness of Insulation	Radial Thickness of sheath	Mean overall diameter		Conductor Resistance at 20°C Max	Minimum Insulation Resistance at 70°C	Cable Approx. Weight
			Min	Max			
mm ²	mm	mm	mm		Ω/km	M Ω .km	kg/km

Two Cores

0.75	0.6	0.8	5.7	7.2	26	0.011	57
1	0.6	0.8	5.9	7.5	19.5	0.010	65
1.25	0.7	0.8	6.3	8.0	14.73	0.010	72
1.5	0.7	0.8	6.8	8.6	13.3	0.010	88
2.5	0.8	1.0	8.4	10.6	7.98	0.0095	139
4	0.8	1.1	9.7	12.1	4.95	0.007	185

Three Cores

0.75	0.6	0.8	6.0	7.6	26	0.011	70
1	0.6	0.8	6.3	8.0	19.5	0.010	80
1.25	0.7	0.9	6.9	8.7	14.73	0.010	102
1.5	0.7	0.9	7.4	9.4	13.3	0.010	111
2.5	0.8	1.0	9.2	11.4	7.98	0.0095	170
4	0.8	1.2	10.5	13.1	4.95	0.007	235

Four Cores

0.75	0.6	0.8	6.6	8.3	26	0.011	83
1	0.6	0.9	7.1	9.0	19.5	0.010	100
1.5	0.7	1.0	8.4	10.5	13.3	0.010	141
2.5	0.8	1.1	10.1	12.5	7.98	0.0095	218
4	0.8	1.2	11.5	14.3	4.95	0.007	294

Five Cores

0.75	0.6	0.9	7.4	9.3	26	0.011	102
1	0.6	0.9	7.8	9.8	19.5	0.010	121
1.5	0.7	1.1	9.3	11.6	13.3	0.010	174
2.5	0.8	1.2	11.2	13.9	7.98	0.0095	270
4	0.8	1.4	13.0	16.1	4.95	0.007	370

MULTI-CORE ORDINARY DUTY 90°C PVC INSULATED AND SHEATHED FLEXIBLE CORD, CIRCULAR TWIN, 3-CORE AND 4-CORE, 300/500 V

Technical Specification

Multi-Core Ordinary Duty 90°C PVC Insulated and Sheathed flexible cord, circular twin, 3-core and 4-core, 300/500 V.

Also available for 105°C operating temperature to suit the client specific requirement.

Standard

BS 6500 for sizes upto 2.5mm² and BS 7919 for 4mm².

Application

For use in offices and household appliances such as computers, spin extractors, washing machines, spin dryers and refrigerators and also for all kinds of outdoor industrial use. Suitable for 90°C or 105°C maximum conductor temperature in normal use.

Conductor

Flexible class 5 copper conductors to BSEN 60228.

Insulation

PVC Type TI 3 to BSEN 50363-3.

Insulation colours

2-Core: Blue and Brown

3-Core: Green/Yellow, Blue and Brown

4-Core: Green/Yellow, Blue, Brown and Black or
Green/Yellow, Brown, Black and Grey

5-Core: Green/Yellow, Blue, Brown, Black and Grey

Sheathing

PVC Type TM 3 to BSEN 50363-4-1.

Standard Sheath Colour

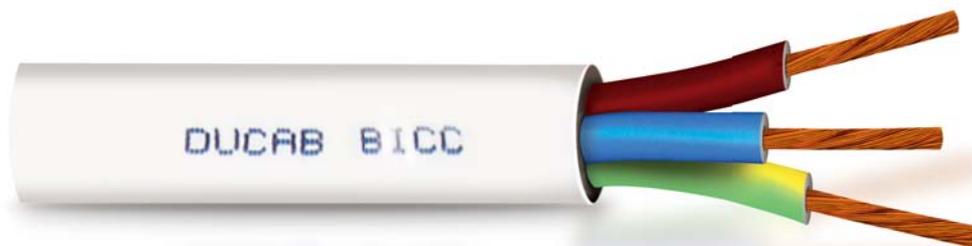
White

Packing

Coils in 100 meters

Other lengths and sheath colours are available upon customer request

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HO5V2V2-F

Conductor Cross-Sectional Area	Nominal Radial Thickness of Insulation	Radial Thickness of sheath	Mean overall diameter		Conductor Resistance at 20°C Max	Minimum Insulation Resistance at 90°C	Cable Approx. Weight
			Min	Max			
mm ²	mm	mm	mm		Ω/km	M Ω .km	kg/km

Two Cores

0.75	0.6	0.8	5.7	7.2	26	0.011	57
1	0.6	0.8	5.9	7.5	19.5	0.010	65
1.5	0.7	0.8	6.8	8.6	13.3	0.010	88
2.5	0.8	1.0	8.4	10.6	7.98	0.0095	139
4	0.8	1.1	9.7	12.1	4.95	0.007	185

Three Cores

0.75	0.6	0.8	6.0	7.6	26	0.011	70
1	0.6	0.8	6.3	8.0	19.5	0.010	80
1.5	0.7	0.9	7.4	9.4	13.3	0.010	111
2.5	0.8	1.1	9.2	11.4	7.98	0.0095	170
4	0.8	1.2	10.5	13.1	4.95	0.007	235

Four Cores

0.75	0.6	0.8	6.6	8.3	26	0.011	83
1	0.6	0.9	7.1	9.0	19.5	0.010	100
1.5	0.7	1.0	8.4	10.5	13.3	0.010	141
2.5	0.8	1.1	10.1	12.5	7.98	0.0095	218
4	0.8	1.2	11.5	14.3	4.95	0.007	294

Five Cores

0.75	0.6	0.9	7.4	9.3	26	0.011	102
1	0.6	0.9	7.8	9.8	19.5	0.010	121
1.5	0.7	1.1	9.3	11.6	13.3	0.010	174
2.5	0.8	1.2	11.2	13.9	7.98	0.0095	270
4	0.8	1.4	13.0	16.1	4.95	0.007	370

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