UC Data Cable – a fast, reliable and ubiquitous part of the Draka Office Network Solution
In a nutshell, we believe that connectivity helps make life at home, work and on the move better and more rewarding. That’s why we are proud of the role we play in developing, manufacturing and building the network that brings people, data and systems together. All over the world, we provide the backbone for today’s communication solutions.

And tomorrow’s, too. How do we do this? On the one hand, we combine market insight with technological know-how, on the other we build strong, long-lasting relationships with our customers.

In this way, we can help you and your customers to stay ahead, enhancing connectivity with advanced office network solutions and services that are designed to last.
For many decades, we have been designing, developing, manufacturing and selling a variety of high-quality copper and optical fibre cables in order to offer you cable solutions for present and future challenges – let it be standard products or tailor-made special cables.

In the communication infrastructure, our well proven products are always in use wherever it is a question of professional and undisturbed data, voice, audio and video transmission. The Draka UC range as described in this brochure has been designed for data transmission and offers a high-capacity and flexible cable concept with best future prospects to our customers from within the industry, trade and service sector.

High speed
The demands on modern networks are very high. Speed and transmission reliability are of utmost priority. In this respect, Gigabit Ethernet offers an enormous potential for the future.

For many years, we have been a partner to companies from within the industry, trade and service sector. Thus we are well aware of our customers’ needs. Planning reliability is an important factor for you and for us, as today’s cable concepts must also meet the requirements of tomorrow’s developments. The Draka UC range has the physical potential to support structured networking for future requirements.

Our product range (Cat.5e, Cat.6, Cat.7 and multimedia cables) has been adjusted to a variety of applications and allows highest transmission ratios. For high-end applications, our UC900 up to UC1500 series offer important reserve capacity. Our cable series have been designed to also allow cable sharing between all categories on the level of the lower category.

Flexibility
Our high-quality UC cables are always in use wherever it is a question of high-speed data transmission in local networks (LAN). They are used for standardized and manufacturer-independent networks – e.g. Token Ring, Ethernet, ISDN, TPDDI, Fast Ethernet 1000BaseT or 10GbE. Aside from voice and data communication, our solutions are also applicable for video communication. Among others, our product range comprises installation and patch cables which have been tested as to their compatibility with common components. Thus, we can guarantee maximum transmission reliability.

Free choice
The right equipment for all applications: Whether high transmission capacity, electromagnetic compatibility (EMC) or best fire retardancy characteristics: We can offer the optimum data cable for every application. All our products are certainly manufactured at the highest quality standards. And it is no question that we will be pleased to advise you as to the installation. Short delivery times and best service guaranteed.

<table>
<thead>
<tr>
<th>Types</th>
<th>Frequency MHz</th>
<th>EN 50173</th>
<th>ISO/IEC 11801 2 ed</th>
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<td>UC MULTIMEDIA</td>
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<td>MULTIMEDIA</td>
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</table>
The data transmission according to Gigabit-Ether-net 1000BaseT is based on a “full-duplex principle” – i.e. via all cable pairs at the same time and parallel in both directions (bi-directional). This results in numerous closely tolerated transmission characteristics for cabling in future requirements. The most important characteristics for the future are: PS-NEXT, PS-ELFEXT and PS-ACR.

**Convincing PowerSum**
The major reason for interference in local networks is the NEXT (Near End Crosstalk). This effect is caused by mutual influence (coupling) of pairs next to each other.

The higher the transmission performance the stronger the interference. In modern network applications being based on a bi-directional data transmission, the interference increases. Power Sum (PS) values can be calculated for all relevant characteristics. In times of high data rates they allow indications of the performance and transmission capabilities of a data cable. For example, a high PS-NEXT is important for users. Due to the core stranding and the patented foil screening, the high-end cables of our UC1500 series reach values being nearly 30 dB better than required by the CAT 7 standard. These resources are also for your benefit.

**Standards**
The received signal is decisive for all highspeed networks. Here, the FEXT (Far End Crosstalk) measures the crosstalk at the receiver. Due to the cable attenuation, the FEXT is substantially lower than the NEXT.

The more meaningful characteristics ELFEXT (Equal Level Far End Crosstalk) for the transmission performance can be obtained by deducting the insertion loss from the FEXT value. The resultant PowerSum then is PS-ELFEXT.
**Undisturbed signals**

The chart shows the inference caused by NEXT and FEXT under realistic conditions and with full utilisation of Gigabit Ethernet. A transfer of information is only possible when the encoded data can be recognised, i.e. the attenuated signal at the receiver must be considerably stronger than the constant interference signal NEXT. Only the application of data cables with optimum channel separation protects against unintended inference and thus represents the condition for the full utilisation of the advantages of modern network application.

**Relevant characteristics**

The central characteristics of a passive network is the ACR (Attenuation Crosstalk Ratio). The ACR shows the attenuation ratio in proportion to the crosstalk ratio. The quality of the transmission is determined by the signal-to-noise ratio (sum of all interferences). Thus, the PS-ACR (cable signal-to-noise ratio) is the relevant characteristic for the assessment of the transmission capacity.

**Minimum ACR**

A minimum ACR of 10 dB is required for highest signal frequencies. The higher the frequency the lower the ACR. Example: For our data cable UC1500, the measurement result shows that the near-end-crosstalk attenuation is on such a low level that it can hardly be traced.
Transmission Parameters already laid out by 1000BaseT are enough for the increase with only one extra test required, Exogeneous (alien) Xtalk (electrical noise).

Error detection
Ethernet works because of Error Detection Systems. The receiving end will poll until transmission is correct. If a system is noisy the error detection will retransmit the same information many times, slowing every transmission; there is a point at which the system will fail. 10G has the smallest safety (fail) margin. The components have to be good.

Margin
In standardisation the margin is built in to ensure plug and play works first time. 100m of cabling is guaranteed to work using components that are manufactured to the standard. The margin is steadily becoming smaller, 10G is almost non-existent, as the error detection systems cannot work above a certain noise level. As bandwidth increases so does noise, no matter how good components are. The min. cabling standard is the lowest minimum possible, the TIA being the lowest, and can always be improved which is Draka’s intention.

Exogenous (Alien) Xtalk
Alien Xtalk is the disturbance (noise) coupled onto a transmitting signal pair from all the other transmitting pairs (all other systems plus 10G). Space between the pairs does decrease the level of noise, and can be seen in the graph, that a U/UTP with help (distance increased) nearly passes the test.

10Giga bit Ethernet is simply the next protocol above 1000BaseT and is 10 times faster, 10 times more bandwidth, higher performance. Using the same full duplex systems copper cabling delivers bidirectional transmission rates at 250MHz per pair.
Screening
Methods to increase margin can involve screening. The exogenous Xtalk coupling devices can be fully deterred by earthing the mutual signal path. Patented foil systems already used by Draka deliver exactly the ultimate level of screening required. In this situation, and as written in the standards, the test for exogenous xtalk is unnecessary for screened cables with good screening attenuation performance.

UTP
Space was mentioned earlier as a method of lessening effects from coupling signals. Using imaginative shaped jacket’s are possible to decrease signal interference, however the interference is still being allowed. Decreasing the expected signal interference might be successful in the lab but what of the real situation of installed cable with limited safety margin?

The patent Draka Technology: ZEBRA (Zero Earth-loop By Reflectorfoil Application)
We understand how screening functions and lead in this market area. The world market is however U/UTP. With our ZEBRA technology Draka combines for the first time advantages of screened protection in an unscreened cable.

- protected by closely placed foil segments
- short foil segments avoid antenna effect
- avoidance of loop currents by segmentation isolation

This combination keeps the cable comparably small and easy to install – just like a U/UTP should be.
Only a cable ensuring optimum ratios with all characteristics can offer the full performance spectrum. Our multimedia cables go through a constant manufacturing process with extremely close tolerances. With development and production, our emphasis lies on high-quality materials and the state-of-the-art manufacturing processes. Thus we are able to guarantee excellent performance and reliability.

**Patented solutions**
A compact and solid cable construction guarantees low attenuation and minimum reflections for the whole frequency range. Due to the high requirements on attenuation, crosstalk and consistency of the impedance, we only use stranded wires or larger copper conductors for the production of our UC cables.

For Cable-Sharing, i.e. several applications on one cable, the pair and overall screening is the best cable construction. With its aluminium-laminated plastic foil and patented foil screening, our cables of series UC400, UC500 and UC1500 guarantee an optimum pair screening. With conductor diameters of 0.56 mm (AWG23) and 0.64 (AWG22), foam-skin core insulations enable us to achieve lowest core diameters. We are of course certified according to ISO 9001, additionally we practise environmental management in line with ISO EN 14001.

**Return Loss**
Modern network applications require high-quality cables as manufactured here at Draka Comteq.

Slight deviations within the insulation material lead to irregularities on the transmission link and cause reflections. This 'return loss' arises when parts of the transmission signal at the deviation are returned to the transmitter due to reflection.
Propagation Delay and Delay Skew
Due to the increased requirements on Gigabit Ethernet the propagation delay and the delay skew become more important. The delay skew is the transmission time difference of two or more pairs.

With the twisted lengths designed by us, our UC data cables achieve a minimum propagation delay and delay skew of less than 12 ns/100m. Also with great application lengths, this means full capacity for high-speed applications with synchronous transmission over all 4 pairs.

Transmission reliability
Due to the high data rates, data transmission is increasingly subject to interferences. Low quality cables generate additional interferences and the risk of transmission failure increases.

Despite high-speed applications, existing data rates and the network capacity are not fully used. Therefore, you can rely now on our high-quality data cables with hardly any risk of interference. So – invest in the power of your network to meet future requirements.
Reliability and Noise Immunity

For many years, “electromagnetic compatibility” (EMC) has been a must for electric equipment. So far the main problem was external interferences influencing system’s causing failure. With high-quality cabling a new problem arises: the Alien Crosstalk (crosstalk of one cable’s transmission on all pairs next to another cable’s receiving signal path on a single pair).

Screening efficiency
EMC stands for the capability of a system to work without having a negative influence (emission of interference) on other systems.

With our Universal Cable series we offer a wide range of installation and connection cables with an optimum screening factor. This ensures the compliance with EMC regulations and the protection of your system.

Noise Immunity
Our screened symmetric cables are known for their high noise immunity and low emission of interference – as shown by the standards EN 55022 Class B and EN 50082-1. Moreover, leading manufacturers of LAN components certify that there is no emission of interference and a high network reliability with our Cat.5e to Cat.7 cables when applied at 100 Mbit/s.

Screening factors
The application of high-quality materials and the screening factor are decisive for an optimum screening.

Complying with the respective EMC requirements, our screened UC cables are available in the following quality options:
• S (Screen): Overall screen of aluminium-laminated foil
• HS (High Screen): Highly screened with aluminium-laminated foil and tinned copper braid
• SS (Super Screen): Pair screen with aluminium-laminated foil and overall screen with tinned copper braid

The application of highly screened cables saves adjustments in case of further installations. This means for you a very cost effective cabling solution for now and the future.
Alien crosstalk requires screening

Uninfluenced
More and more important in practice: The interference of reliable data transmission by mutual influence of unscreened and undefined communication cables. The degree of the mutual influence is called “Alien Crosstalk”. Although this value is not recorded with link tests, it reduces the ACR like a normal NEXT.

At 100 MHz, the Alien Crosstalk of two unscreened Cat.6 cables laid in parallel amounts to 55 dB, whereas it reaches 95 dB with screened cables. This can be of relevance at the patch panel where a tight bundling of the cables is necessary.

Optimum transfer impedance
The transfer model of a screened (below) and unscreened (above) conductor clearly shows: In this case of an electromagnetic wave reaching the cable from outside leads to interference due to induction. With relatively low frequencies, this effect may be limited by symmetric transmission elements.
For many years, flame retardance has been among the minimum requirements of indoor cables. Some PVC cables were often used in the past – PVC is less flammable than other materials, but they do not prevent a spread of fire. They release toxic and corrosive gases when burnt. The alternative: High-quality LSHF (Low-Smoke-Halogen-Free) materials with considerably improved properties in case of fire.

**Protecting LSHF sheath**

All UC cables are also available with halogenfree and flame retardant LSHF sheath. Excellent materials guarantee best electrical and mechanical properties of the cable.

The ability of our cables to avoid a spread of fire is documented by two standardized test methods: The fire characteristics of a single cable is determined according to IEC 60332-1. Test method C of IEC 60332-3-24 tests the characteristics of cable bundles. These tests are performed under realistic conditions in the field of structured cabling in buildings, e.g. in the distribution room or void. All our UC cables with LSHF-FR sheath fully comply with this significantly stricter standard (test method C).

It is dependent on the respective building or field of application whether to decide for a data transmission cable according to test method B or C. In case of any doubt, however, security ranks first and you should prefer the data cable with the flame retardant properties.

**Improved fire protection characteristics**

- No spread of (fire propagation), e.g. transmission of the local fire alongside the cables
- No emission of corrosive gases, possibly creating acid with extinguishing water
- Very low smoke development
- No Dioxin in the fire remains
- Considerably low toxicology of fire gases
Fire Protection

<table>
<thead>
<tr>
<th>Fire characteristics</th>
<th>International standard</th>
<th>Data cable with PVC sheath</th>
<th>UC-Data cable with LSHF-FR sheath</th>
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<tr>
<td>Specific fire characteristics/fire propagation of a single piece of cable</td>
<td>IEC 60332-1</td>
<td>✔️</td>
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<td>Fire propagation of a cable bundle Corrosivity of fire gases</td>
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<td>Measurement of smoke density</td>
<td>IEC 61034-1</td>
<td>✔️</td>
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</tbody>
</table>

Test method C passed
A cable bundle is exposed to a 20kW flame for 20 minutes in a 4 meter high cabinet. The cables burn within the range of the propane gas flame (up to 1 meter), however, the cable bundle extinguishes itself and the remaining cable length remains without damage: No fire propagation, no excessive smoke development which would, in case of emergency, obstruct chances to escape. For comparison: Under the same conditions, some PVC cables burn completely within 5 minutes over the entire length.

Safety
Highest precautionary measures as to the cabling apply at crowded places (e.g. hospitals, airports, schools, department stores, hotels), in buildings with a high concentration of commodity values and wherever a breakdown would involve high expenses (e.g. industrial plants, power stations, EDP centres, banks) as well as in alarm, signal and control systems.

Material of the future
Currently, the application of fluorinated polymers as insulation material is under discussion. It is known for its extremely high thermal stability and flame retardance. However, in case of emergency this material releases highly toxic and corrosive fire gases despite the considerably improved fire resistance compared to PVC. Also in future, only LSHF materials represent a responsible alternative.
## Electrical properties

<table>
<thead>
<tr>
<th>Transmission performance</th>
<th>EMC properties</th>
<th>Mechanical properties</th>
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<tbody>
<tr>
<td><strong>UC300 26 Cat.5e U/UTP</strong></td>
<td>Patch Cable</td>
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<tr>
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<td>1</td>
<td>10</td>
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<tr>
<td>Attenuation**</td>
<td><strong>dB</strong></td>
<td>0.3</td>
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<tr>
<td>NEXT</td>
<td><strong>dB</strong></td>
<td>71.0</td>
</tr>
<tr>
<td>PS-NEXT</td>
<td><strong>dB</strong></td>
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<tr>
<td>PS-ELFEXT</td>
<td><strong>dB</strong></td>
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<tr>
<td>PS-NEXT</td>
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<tr>
<td>PS-ACR</td>
<td><strong>dB</strong></td>
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Duplex Cable available on request.
## Transmission performance

### UC400 26 Cat.6 U/UTP

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<th>100</th>
<th>250</th>
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<td>0,90</td>
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<td>4,90</td>
<td>5,20</td>
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<tr>
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### UC400 527 Cat.6 U/FTP

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<td>51,00</td>
<td>50,00</td>
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<td>PS-NEXT dB</td>
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<td>PS-ELFEXT dB</td>
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<td>72,00</td>
<td>52,00</td>
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### UC400 23 Cat.6 U/UTP

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### UC400 523 Cat.6 U/FTP

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<td>NEXT dB</td>
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* Nominal value measured at 100 m (Velocity of Propagation)  |  ** Nominal value Patch Cable measured at 10 m  |  *** NVP = Nominal  |  **** LSOH
### Electrical properties

#### Transmission performance

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<tr>
<th>MHz</th>
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#### EMC properties

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#### Mechanical properties

- **Fire protection characteristics****
- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
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### UC500 S27 Cat.6a U/FTP

#### Installation Cable

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<td>19.0</td>
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<td>57.3</td>
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<td>35.1</td>
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<td>15.5</td>
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#### Transmission performance

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
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#### EMC properties

- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
<table>
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#### Mechanical properties

- **Fire protection characteristics****
- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
<table>
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### UC500 S23 Cat.6a U/FTP

#### Installation Cable

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<td>97.0</td>
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<td>62.0</td>
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#### Transmission performance

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
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#### EMC properties

- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
<table>
<thead>
<tr>
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#### Mechanical properties

- **Fire protection characteristics****
- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
<table>
<thead>
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<td>Overall diameter mm</td>
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<td>Fire load MJ/km</td>
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### UC500 AS23 Cat.6a F/FTP

#### Installation Cable

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<td>17.4</td>
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<td>38.3</td>
<td>44.8</td>
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<td>89.0</td>
<td>87.0</td>
<td>85.0</td>
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<td>97.0</td>
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<tr>
<td>ACR dB</td>
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<td>83.0</td>
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#### Transmission performance

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
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#### EMC properties

- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
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#### Mechanical properties

- **Fire protection characteristics****
- **Attenuation** dB
- **NEXT dB**
- **PS-NEXT dB**
- **PS-ELFEXT dB**

- | MHz | 1 | 10 | 100 | 250 | 300 | 400 | 500 |
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### UC900 SS27 Cat.7 S/FTP  
Patch Cable

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<tr>
<td>Kopplungswiderstand mΩ/m</td>
<td>Bending radius</td>
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- bei 1 MHz: 25 with load 8xD
- bei 10 MHz: 15 without load 4xD
- bei 30 MHz: 30 Tensile force N 100

### UC900 HS23 Cat.7 S/FTP  
Installation Cable

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<td>Kopplungswiderstand mΩ/m</td>
<td>Bending radius</td>
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- bei 1 MHz: 20 with load 8xD
- bei 10 MHz: 30 without load 4xD
- bei 100 MHz: 200 Tensile force N 110

### UC900 SS23 Cat.7 S/FTP  
Installation Cable

<table>
<thead>
<tr>
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- bei 1 MHz: 5 with load 8xD
- bei 10 MHz: 5 without load 4xD
- bei 100 MHz: 20 Tensile force N 340

* Nominal value measured at 100 m (Velocity of Propagation) | ** Nominal value Patch Cable measured at 10 m | *** NVP = Nominal | **** LSOH
### Electrical properties

<table>
<thead>
<tr>
<th>Transmission performance</th>
<th>EMC properties</th>
<th>Mechanical properties</th>
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#### UC1200 SS23 Cat.7A S/FTP

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#### UC1500 SS23 Cat.7A S/FTP

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<td>100.0</td>
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#### UC1500 HS22 Cat.7A S/FTP

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<td>100.0</td>
<td>100.0</td>
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#### UC MULTIMEDIA 1500 SS22 6 FOILS S/FTP

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<td>Attenuation**</td>
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<td>100.0</td>
<td>100.0</td>
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* Nominal value measured at 100 m (Velocity of Propagation) | ** Nominal value Patch Cable measured at 10 m | *** NVP = Nominal | **** LSOH
Product scope UC Data Transmission Cable

<table>
<thead>
<tr>
<th>Cable type</th>
<th>Screening</th>
<th>Category</th>
<th>Application</th>
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<td>Cat.5e</td>
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<td>Cat.5e</td>
<td>Patch Kabel</td>
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<tr>
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<td>Cat.5e</td>
<td>Patch Kabel</td>
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<td>Patch Kabel</td>
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<tr>
<td>UC400 23 Cat.6 U/UTP</td>
<td>U/UTP</td>
<td>Cat.6</td>
<td>Installation Cable</td>
</tr>
<tr>
<td>UC400 S23 Cat.6 U/FTP *</td>
<td>U/FTP</td>
<td>Cat.6</td>
<td>Installation Cable</td>
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<tr>
<td>UC400 HS23 Cat.6 S/FTP *</td>
<td>S/FTP</td>
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<td>Installation Cable</td>
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<td>U/UTP</td>
<td>Cat.6</td>
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</tr>
<tr>
<td>UC400 S27 Cat.6 U/FTP *</td>
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* Draka patent designs
### Electrical properties

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<thead>
<tr>
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#### Transmission performance

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<th>Impedance Ω</th>
<th>100 ± 5</th>
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</tr>
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<td>without load</td>
</tr>
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#### EMC properties

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<th>Fire protection characteristics****</th>
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#### Mechanical properties

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<th>Fire protection characteristics****</th>
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<tbody>
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<td></td>
<td>Tensile force</td>
</tr>
</tbody>
</table>

---

* Nominal value measured at 100 m (Velocity of Propagation) | ** Nominal value Patch Cable measured at 10 m | *** NVP = Nominal | **** LSOH
Draka Communication gets the green light

On 1st July 2006, the final stage of “ElektroG” came into effect. The law which governs the marketing, return and environmentally-compatible disposal of electrical and electronic equipment serves the implementation in Germany of the two EC directives RoHS and WEEE.

Two directives, one law and a great deal of uncertainty in the industry. For our customers, on principle, the question is: are cables from Draka Comteq classified as electrical and electronic equipment in the sense of ElektroG or the RoHS and WEEE directives? To cut a long story short: all cable solutions from Draka Comteq are not “equipment” in the sense of the directives and can thus be sold and used without hesitation. This conclusion is also reached by an independent expert who confirms the result with a certificate.

The Draka Comteq documentation provides further information on this theme, explains the background and shows the full wording of the certificate. The leaflet can be obtained free of charge, simply send an e-mail to: koeln.info@draka.com.
Quality and Environment

Quality management
DIN EN ISO 9001

Environmental management
DIN EN ISO 14001

3P-Certificate

GL Certificate
100-Ω data transmission cables according to:
ISO/IEC 11801 2nd ed. Cat.5e, Class D; Cat.6, Class E;
Cat.6A, Class E_A; Cat.7, Class F; Cat.7A, Class G EIA/
TIA 568 A; B.2-1

EN 50173 Cat.5e, Class D; Cat.6, Class E; Cat.6A, Class
E_A; Cat.7, Class F; Cat.7A, Class G EIA/TIA 568 A; B.2-1

IEEE 802.3 an Cat.6A, Class E_A, Cat.7A, Class F_A

UC300 Universal Cable 100 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

UC400 Universal Cable 250 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

UC500 Universal Cable 500 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

UC900 Universal Cable 900 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

UC1200 Universal Cable 1200 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

UC1500 Universal Cable 1200 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

UC MULTIMEDIA Universal Cable 1500 MHz
according to ISO/IEC 11801 2nd ed./EN 50173

Draka Communications – Cable in Copper and Optical Fibre Technology for:
• Office Communication
• Central Office Switching
• Home Networks
• Industry
• Studio
• CATV
• Long-distance networks
• Subscribers networks (FttX)
• Telecommunication networks
• Mobile telephone systems
• OPGW
• Signalling cables
We make communication technology work, by serving you in every way to realize your leading edge network solution

Draka Communications has offices and production facilities all over the world. To get in touch with us and find out how we can help you build your network, visit our website at www.draka.com/communications or contact us.

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