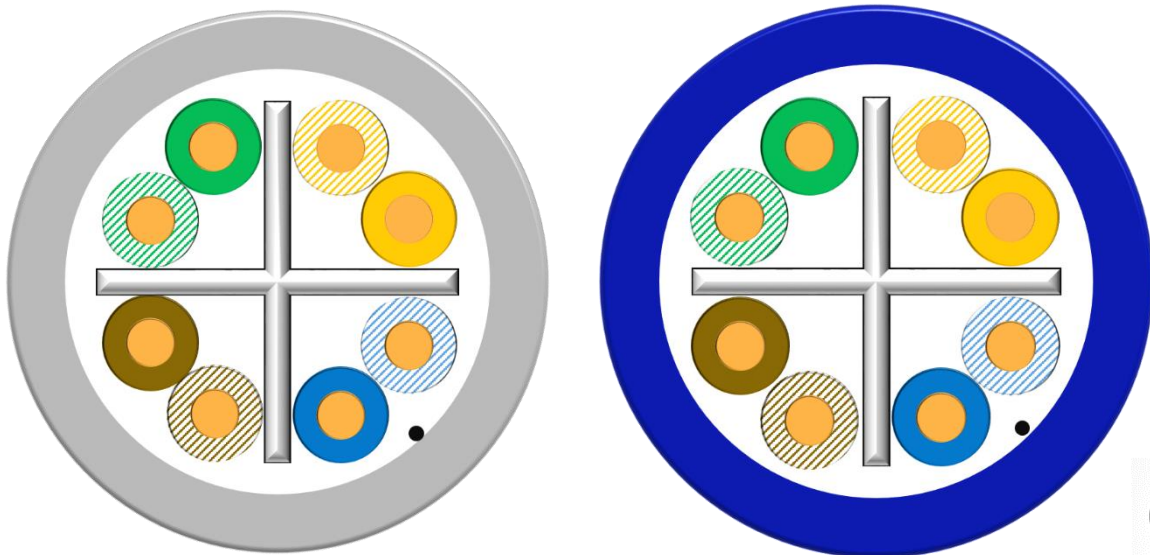


Draka UC400 Cat.6 U/UTP 23 AWG PVC CM

Ethernet cable up to 250 MHz



Application

Generic cabling systems
 Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM
 IEEE 802.3af (PoE); IEEE 802.3at (PoE+)

Standards

ANSI EIA/TIA 568-C.2; ISO/IEC 11801 2nd Ed.; IEC 61156-5 2nd Ed.; EN 50173-1; EN 50288

Construction

| | |
|----------------------|--|
| Conductor | Solid copper wire Nom. \varnothing 0.55 (23AWG) |
| Insulation | PE, Nom. \varnothing 0.98 mm |
| Twisting | 2 cores to the pair |
| Cable Lay Up | 4 pairs to the core non-metallic cross separator |
| Sheath/Sheath Colour | PVC CM: GREY (RAL7035), BLUE (RAL5012); Thickness: Nom. 0.55 mm; Ripcord |
| Outer Diameter | Nom. \varnothing 6.1 mm |
| Approximate Weight | Nom. 42.0 kg/km |

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Mechanical properties

| | | |
|-----------------------|---------------------|----------------------------|
| Bend radius | With Load | $\geq 8 \times \text{O.D}$ |
| | No Load | $\geq 4 \times \text{O.D}$ |
| Temperature range | During operation | -20°C to +60°C |
| | During installation | 0°C to +50°C |
| Maximum Pulling Force | During installation | 100 N |

Electrical properties

| | | |
|------------------------------|----------------|-------------------------------------|
| Impedance | 1-250 MHz | $100 \pm 15 \Omega$ |
| DC Resistance | | $\leq 93.8 \Omega/\text{km}$ |
| DC Loop Resistance | | $\leq 187.6 \Omega/\text{km}$ |
| DC Resistance Unbalance | | $\leq 5\%$ |
| Mutual Capacitance (@1 kHz) | | $\leq 5.6 \text{ nF}/100\text{m}$ |
| Capacitance Unbalance | Pair to ground | $\leq 330 \text{ pF}/100\text{m}$ |
| Velocity of Propagation | | Nom. 69% |
| Propagation Delay (@250 MHz) | | $\leq 536.0 \text{ ns}/100\text{m}$ |
| Delay Skew | | $\leq 45 \text{ ns}/100\text{m}$ |

| Freq. (MHz) | Max. Attenuation (dB) | Min. NEXT(dB) | Min. PS-NEXT (dB) | Min. ACR-F (dB) | Min. PS-ACRF (dB) | Min. Return Loss (dB) |
|-------------|-----------------------|---------------|-------------------|-----------------|-------------------|-----------------------|
| 1.0 | 2.0 | 74.3 | 72.3 | 67.8 | 64.8 | 20.0 |
| 4.0 | 3.8 | 65.3 | 63.3 | 55.8 | 52.8 | 23.0 |
| 16.0 | 7.6 | 56.2 | 54.2 | 43.7 | 40.7 | 25.0 |
| 25.0 | 9.5 | 53.3 | 51.3 | 39.8 | 36.8 | 24.3 |
| 62.5 | 15.4 | 47.7 | 45.7 | 31.9 | 28.9 | 21.5 |
| 100.0 | 19.8 | 44.3 | 42.3 | 27.8 | 24.8 | 20.1 |
| 200.0 | 29.0 | 39.8 | 37.8 | 21.8 | 18.8 | 18.0 |
| 250.0 | 32.8 | 38.3 | 36.3 | 19.8 | 16.8 | 17.3 |

Note1: All tests include 401 points swept frequency measurements

Note2: All electrical characteristics are given at 20°C

note3: All above stated values are nominal and subject to changes

Note4: Transmission performance based on 100 m (328 ft)

Fire Rating

PVC IEC 60332-1; CM rated

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Ordering Information

| SAP 1C | UC P/N | Product Description | P.U |
|----------|---------|--------------------------------------|----------|
| | 60020GY | UC 400 Cat 6 UTP 23 AWG PVC CM, GREY | 305m/box |
| 60067519 | 60020BL | UC 400 Cat 6 UTP 23 AWG PVC CM, BLUE | 305m/box |

Marking:

Marked in 1 meter intervals as follows:

E489160 (UL) CM 4PR 23AWG DRAKA UC400 U/UTP <SHEATH> CAT 6 CABLE P/N <PART NUMBER> VERIFIED TO EN 50288 ISO/IEC 11801 ANSI/TIA-568-C.2 <FC> <BATCHCODE> <XXX>M

<SHEATH>: PVC

<PART NUMBER>: Cable part number

<FC>: Draka defined factory Code

<BATCHCODE>: Factory defined tracking code MM/YYYY

<XXX>: Increasing length marking by 1 metre

Logistic

Packing:

PVC: Reelex Box II;

Delivery Lengths:

PVC: 305m per box;

Packaging Info

Box design: Refer to Cat6 UUTP Reelex Box II

Label design: Refer to UC Category Cable Label

Enquiries

Please contact our local sales office or mms.asia@prysmiangroup.com

Multimedia Solutions is the data communication portfolio of Prysmian Group and comprises all the necessary portfolio of cable solutions for data communication.

Ask about UC CONNECT for a complete Structure Cabling Solutions with 25 Years System Warranty.

Visit www.DrakaUC.com for more information.

Draka UC400 Cat.6 U/UTP 23 AWG PVC CM

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