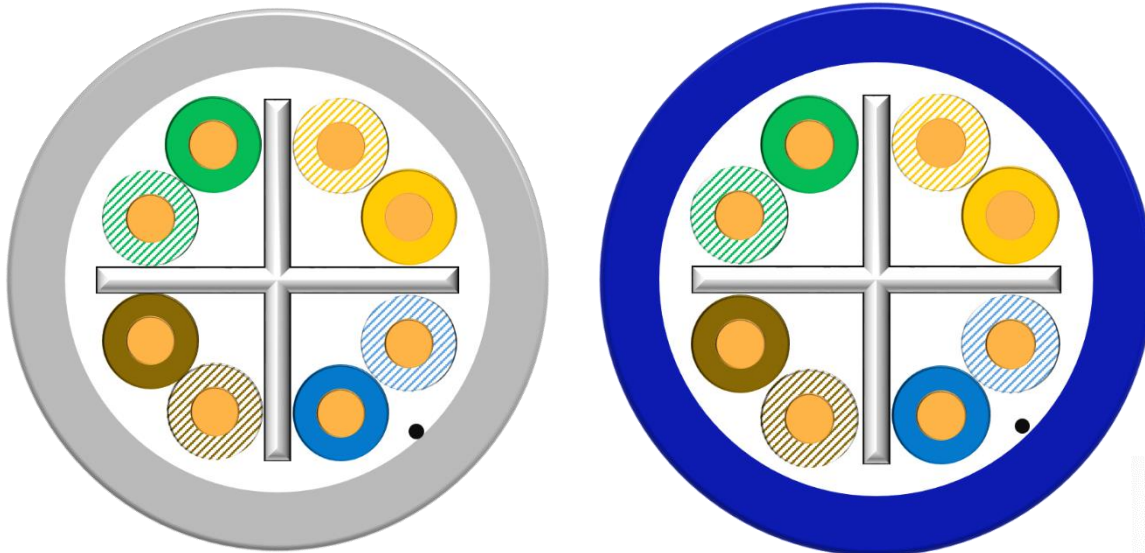


## Draka UC400 Cat.6 U/UTP 23 AWG PVC CMR

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 2<sup>nd</sup> Ed.; IEC 61156-5 2<sup>nd</sup> 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 (FRPE)
Sheath/Sheath Colour	PVC CMR: 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; CMR rated

## Draka UC400 Cat.6 U/UTP 23 AWG PVC CMR

### Ordering Information

SAP 1C	UC P/N	Product Description	P.U
TBA	60030GY	UC 400 Cat 6 UTP 23 AWG PVC CMR, GREY	305m/box
TBA	60030BL	UC 400 Cat 6 UTP 23 AWG PVC CMR, BLUE	305m/box

**Marking:**

Marked in 1 meter intervals as follows:

**E489160 (UL) CMR 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](mailto: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](http://www.DrakaUC.com) for more information.

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